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HASSIBA BENBOUALI UNIVERSITY OF CHLEF
FACULTY OF TECHNOLOGY
MECHANICS AND ENERGETICS LABORATORY
IN COLLABORATION WITH
UNIVERSITY ABBES LAGHROUR OF KHENCHELA



CERTIFICATE OF ATTENDANCE



This is to certify that

Alla Eddine TOUBAL MAAMAR

Laboratoire Ingénierie des Systèmes et Télécommunications (LIST), Department of Electrical Systems Engineering, Faculty of Technology,
University of M'hamed Bougara of Boumerdes, 35000, Boumerdes, Algeria.

In recognition of attending the

3rd NATIONAL CONFERENCE ON MATERIALS SCIENCES AND ENGINEERING (MSE'25)

held at Hassiba Benbouali University of Chlef, from June 11-12, 2025, with the theme of poster communication:

“ Experimental Evaluation and Modeling of 85 W Solar Panel for Maximum Power Extraction”

Co-Author(s): Mourad NAIDJI, Aicha AISSA-BOKHTACHE, Maamar LATROCH, Touhami ABDELOUAHED, Aimad BOUDOUDA

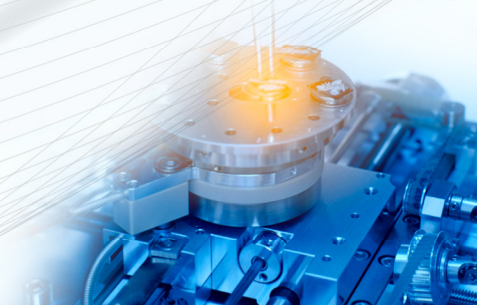


President of Seminar
Chairman of MSE'25
Dr. Azeddine BELALIA
Dr. BELALIA Azeddine



3rd NATIONAL CONFERENCE ON
MATERIALS SCIENCES
AND ENGINEERING

President of the Scientific Committee
Prof. HADJ MELIANI Mohammed





**Materials Sciences And Engineering,
(MSE'25).**

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Experimental Evaluation and Modeling of 85 W Solar Panel for Maximum Power Extraction

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ABSTRACT

The world has never been more in need of a shift to renewable power. Electricity demand will increase 50% by 2050 (*IEA*, 2023) and solar power represented more than 60 % of new installations of renewable capacity in 2023 (*IRENA*), with photovoltaic (*PV*) technology leading the way in green energy solutions.

Solar panel, which are made up of series-connected photovoltaic cells, produce electricity by converting sunlight via the photovoltaic effect with voltages of 0.3V to 0.6V per cell, depending on semiconductor materials and ambient conditions. However, solar energy system is replete with basic challenges. Experimental confirmation of power flow control and energy management methods in practice can risk costly equipment—rendering mathematical modeling and simulation as a pivotal departure point to secure efficiency and reliability. Even with the explosive expansion of solar power, numerous students, and researchers continue to experience difficulty gaining information for precise *PV* system simulation. The present research paper fills this void by offering a comprehensive tutorial on solar panel experimental test and modeling with MATLAB/Simscape. We explain all the steps from basic principles to complex algorithms and unveil essential simulation methodologies for maximum power extraction.

The significant contributions of this work are: A flexible MATLAB-based *PV* model easily implementable for varied research goals; Implementation and simple modeling of 85W solar panel, which any user can modify for other research purposes, such as optimization and power flow control techniques. Such knowledge can help the world meet its decarbonization goals and build a cleaner, more efficient energy future.

Keywords: *Solar Energy, Modeling and Simulation, I-V and P-V Characteristics, Photovoltaic Phenomenon, MATLAB/Simscape.*



Third national Conference on Materials Sciences And Engineering, (MSE'25)

June 11-12, 2025 in Chlef, Algeria

Organized by
Mechanics and Energetics Laboratory (LME)
Faculty of Technology,
Hassiba Benbouali University, Chlef



MSE'25

de Chlef



TECHNICAL PROGRAM

Wednesday, June 11th, 2025 | Face-to-Face Conference Day

08:00 – 09:00	Welcoming Participants at Auditorium of the Hassiba Benbouali University, ElHassania, Chlef		Hall 2000
09:00 – 09:30	Conference Opening Ceremony		Lecture Hall B
09:30 – 10:00	First Plenary Chemical Engineering of Polymers Pr. Kamel CHAOUI (Univ- Annaba) Session Chairs: Pr. HOUCINE Abdelkader, Pr FALLAH Mamoun, Pr. GUEDRI Abdel elmoumene, and Mr. BELGHIT Salim		Lecture Hall B
10:10 – 10:45	Second Plenary L'apport de la métrologie pour les laboratoires de contrôle qualité des matériaux de construction Monsieur le Directeur DJEBRA Houcine (IRMA GLOBAL) Session Chairs : Pr. HOUCINE Abdelkader, Pr FALLAH Mamoune, Pr. GUEDRI Abdel elmoumene, and Mr. BELGHIT Salim		Lecture Hall B
10:45 – 11:30	Coffee Break		Hall 2000
	Poster Session 1 Poster Session Chairs: Pr. BOUHEKA Ahmed (UEW Tissemsilt), Dr. ZEGGAI Oussama, Dr. Hadj Mouloudj, Dr. BENICHOU Boucif, Dr. MOKADEM Azzedine (ENP Oran), Dr. Rachid Traiche		
11:30 – 13:00	Oral Session 1	Materials and environment	Lecture Hall A
		Renewal Energy and Electrical Engineering	Lecture Hall B
		Mechanical Engineering	Lecture Hall C
		Nano Science	Lecture Hall D
		Chemistry	Lecture Hall E
13:00 – 13:45	Lunch		
13:45 – 14:30	Poster Session 2 Session Chairs: Pr. Khaled MILOUDI, Dr. Abdessoufi BENHAMOU, Dr. AMARA Mouna, Dr. Mohamed HAENTABLI, Dr. Khadidja AYADI, Dr. Fatima GUITARNI		Hall 2000
14:30 – 16:15	Oral Session 2	Materials and environment	Lecture Hall A
		Renewal Energy and Electrical Engineering	Lecture Hall B
		Mechanical Engineering	Lecture Hall C
		Nano Science	Lecture Hall D
		Nano Science	Lecture Hall E
16:15 – 17 :00	Coffee Break		Hall 2000
	Poster Session 3 Session Chairs: Dr. Mouna AMARA, Dr. Mohamed DEKKICHE, Dr. SAMEUT BOUHAIK Izzeddine, Dr. Mohammed SAADOU, Dr. Fatima GUITARNI		

Wednesday, June 11th, 2025 | Online Conference Day

10:00– 16:15	Oral Session 2	Nano Materials	Room 1
		Materials and environment	Room 2
		Renewal Energy	Room 3
		Chemistry	Room 4
		Engineering	Room 5
		Mechanical and Civil Engineering	Room 6
		Metallurgical and materials engineering	Room 7
		Nano Science	Room 8
		Applied Ceramic Technology	Room 9

Thursday, June 12th, 2025 | Face-to-Face Conference Day

08:00 – 09:00	Welcoming Participants at Auditorium of the Hassiba Benbouali University, ElHassania, Chlef	Hall 2000
09:00 – 09:45	<u>Poster Session 4</u> Session Chairs: Dr. Houari KHOUIDMI, Dr. Sid ahmed BENZOUAOU, Boubaker BESSADIK, Dr. Boulanoir SAADAT, Dr. Houari AOUE, Dr.	Hall 2000
10:00 – 10:25	<u>First Plenary</u> La Transition Energétique 2030 Pr. Larbi LOUKARFI (Univ- chlef) Session Chairs: Pr. Rabia KHALIF and Pr, Maamar Djilali BAYEDA	Lecture Hall B
10:30 – 11:55	<u>Second Plenary</u> Intelligence Artificielle et la Sécurité Industrielle Pr. Youcef ZANNIR Session Chairs : Pr. Rabah KHENATA, Pr. Abdelhalim ALLOUI, and Mr. Salim BELGHIT	Lecture Hall B
11:00 – 11:45	Coffee Break	Hall 2000
	<u>Poster Session 5</u> Session Chairs: Pr. ZIDANE Ibrahim, Pr. LARBI Ahmed Amine, Dr. Abdessoufi BENHAMOU, Dr. Youcef KAMLA, Dr. BELKACEM Nefissa, Dr. FOUKRACH Mohammed and Dr. BOUAKKAZ Ahmed Ouadah	
11:50 – 12:30	<u>Panel</u> University/Industry Exchange Panel	Lecture Hall B
12 :30 – 13 :00	Conference Closing Ceremony	Lecture Hall B

DETAILED PROGRAM

MSE'25, June 11-12th, 2025

10:45 – 11:20		Poster Session 1 Wednesday, June 11th, 2025
Hall 2000 Nano-Sciences		
ID 571	Synthèse écologique et caractérisation de nanoparticules de TiO₂ Achour Achouak, Necira Zelikha, Bouhenna Abdessalem	
ID 1505	L'analyse des vibrations libres des poutres composites renforcées FG-CNT par la théorie de la déformation par cisaillement du premier ordre (FSDT) Asmaa Djilali Bouzina, El Hadj Meziane, Riad Bennai, Sarra Sendjasni	
ID 958	Structural and optical properties of highly textured thin films of undoped and Ag-doped ZnO herzi Abdelkarim, Ouadha Ismail	
ID 1253	Chemical composition and electronic properties of undoped and Cu doped TiO₂ bedrouni mahmoud, Abdelkrim Mahfoud, Halati Mohamed Salah	
ID 708	Graphene patch antenna for Ku band satellite application sana dahou, soumaya larouci, khaoula toudert, Amine rabah	
ID 470	Half-Metallica ferrimagnetic of novel Ti₂-based ternary Heusler alloys: DFT calculations. drief mohammed, Guermit youcef, hocine kamel	
ID 414	Evaluation of physical and structural properties of Ti-25Nb-25Zn alloy obtained by powder metallurgy for use as biomaterial fouzia hamadi, mamoun fellah, dikra bouras	
ID 1780	Low dimensional behavior of normal and anomalous densities for homogeneous Bose gases at finite temperature Mehedi atika	
ID 1808	Simulation and characterization of dual layer ITO/ZnO/P3HTPC61BM/MAPbI₃/MASnI₃/Spiro-OMETAD/perovskite solar cells by using TCAD – SILVACO Bourahla Nassima	
ID 1833	Effects of the Geometric Parameters on the Interfacial Stresses Bone/Implant Yamina CHELAHI CHIKR	
ID 1023	Mechanical behavior of porous functionally graded plates SAFA Abdelkader, HADJI Lazreg, CHAMI Guermit Mohamed Bilal	
ID 1525	Modeling Left-Turn Movements at Signalized Intersections with Shared Lanes: A Case Study from Oran, Algeria wissem BELKHEIR, wafa TEBBOUNE, Ahmed BOUMEDIENE	
ID 1441	Comparative Study of the Magnetic and Structural Properties of Nanostructured iron-nickel and iron Tin Alloys Synthesized via mechanical alloying Abderahim ABADA, Abderrahmane YOUNES, Rachid AMRAOUI	
ID 1437	Role of Cobalt in Improving the Magnetic Behavior of Mechanically Milled Iron-Alumina Nanocomposites. Rachid AMRAOUI, Abderrahmane YOUNES, Djilali ALLOU, Abderahim ABADA	
ID 1733	Étude numérique de l'amélioration du transfert de chaleur dans une marche descendante à l'aide de nanofluides et d'une ailette flexible. KHELIF Fatima zohra	
ID 1232	Étude de l'influence de l'ajout de rangées de boulons sur la distribution des contraintes de Von Mises dans les assemblages par platine d'about Hichem Rakib SEBBAGH, Abdessamade MENDLI, Sid Ahmed BEKHTI, Anis ABIDELAH, Abdelhamid BOUCHAIR	

ID 1292	Mesoporous nanocomposite CuO/MCM-41: Synthesis, and Structural Characterization ahlam belabed, hamza Medjadji, Mohammed sadou, Nassima Salhi
ID 1414	Structural, Optical and Electrical properties of NiO and Cu-doped NiO thin films synthesized by spray pyrolysis Yousra Boussida
ID 1577	La désalinisation et l'amélioration de la résistance de compression du sol de la sebkha d'Oran par le traitement électrocinétique HADJADJ FATIMA ZOHRA, LAREDJ NADIA, MISSOUM HANIFI
ID 1239	Identification des sources de déformation des assemblages de type couvre joint Abdessamade MENDLI, Hichem Rakib Sebbagh, Sid Ahmed Bekhti, Anis Abidelah, Abdelhamid Bouchair
ID 635	A DFT-Based Insight into the Physical Properties of Lead-Free Double Halide Perovskite: Toward Eco-Friendly Optoelectronic Innovation Ahmed Azzouz-rached, Ismail OUADHA
ID 634	Optoelectronics: The Rise of a New Layered Semiconductor for Next-Gen Applications Ahmed Azzouz-rached, Ismail Ouadha
ID 1076	Nano-TiO ₂ layer /ZnO Heterojunction supported raw diatomite and modified by phosphoric acid based on a Solvothermal process cherrak rachida, sekkal kawtar, zerrouki nawel, seghier abdelkrim, hadjel mohammed, benderdouche noureddine
ID 1339	Sustainable Nano Alumina Production from Aluminum Waste: A Dual-solution for Recycling and Resource Scarcity Houssem Eddine RAMREME, Anis DJILANI, Mohamed AIT AHMED, Mohamed Anis BOUTAOUI, Abdessabour BENAMOR, Mohamed HADJI, Maamar HAKEM
ID 1344	Nano Alumina extracted from Kaolinite vs. Exfoliated Kaolinite: Unlocking the Potential of Al ₂ O ₃ -Rich Clays Anis DJILANI, Houssem Eddine RAMREME, Mohamed AIT AHMED, Mohamed Anis BOUTAOUI, Abdessabour BENAMOR, Mohamed HADJI, Maamar HAKEM
ID 1139	Numerical Modeling of a Coupled Structure-Actuator System Based on Piezoelectric Elements Somia Lemoussi, Adel Zemirline, Mohammed Ouali
ID 1327	Structural Characterization of ZnO: Ni thin films prepared by sol-gel dip-coating technique BELKASSA MISSOUM, LARBAH Youssef, GHALEB ABDELLATIF, HAMRI YAZID ZAKARIA, HERZI Abdelkarim, ADNANE Mohamed, MESBAH HASSEN
ID 1084	Eco-friendly development of mesoporous-supported copper nanoparticles using coffee extract Kawter Nor El Houda SEKKAL, Rachida CHERRAK, Rachida OUARGLI-SAKER
ID 1027	Maghnite-H+ un nouveau catalyseur vert pour la synthèse de nanocomposites Smail Boutaleb, Hodhaifa Derdar
ID 1436	Structural and Magnetic behavior of Ni ₃ Fe/ NiFe ₂ O ₄ Nanocomposites Synthesized via Mechanical Milling process Abderrahmane Younes, Rachid Amraoui, Abderahim Abada
ID 1202	Contribution de l'échangeur air-sol (EAHE) à l'amélioration de la performance énergétique des bâtiments dans différents contextes climatiques algériens MAADEN Hafsa, Menhoudj sayeh, MOKHTARI abderrahmane Mejedoub
ID 1061	Effects of SIMS primary ion beam energy on HBT Ge depth profiles aymen allele, Fayçal Boulsina, Maya Lakhdara
ID 885	Hydroxyapatite Nanocomposites: Properties and Practical Applications sara safa
ID 553	Development of High-Performance Layered Na _{1-x} MnO ₂ Oxides via Niobium Doping for Advanced Sodium-Ion Batteries Applications. Abdelali Benzaid, Rawdah Whba, Nedjemeddine Bounar, Abdelmalek Saoudel, Serdar Altin
ID 1203	Experimental study and pre-treatment of the leachate Zohra bounouara
ID 572	Synthesis of nanocomposites: effect of the interface on the performance of the material habiba tabet
ID 1597	Étude ab initio des propriétés structurales, électroniques et optiques des alliages Al _x Ga _{1-x} As

	Kheira CHEBBAH, Fatiha Besahraoui
ID 1555	Effect of mechanochemical surface modification of calcined kaolin with urea-stearic acid co-system on PVC/calcined kaolin compatibility: Improved properties of rigid PVC nanocomposites. Oum Keltoum MALLEM, Fatma Zohra Benabid, Foued Zouai, Oussama Yahi
ID 564	Synthesis, structural and magnetic properties of CoFe_{100-x} thin films deposited onto Si (111) substrate Ahlem MELLOUL, Ahmed KHARMOUCHE
ID 463	Calcul numérique des courbes de dispersion de phonons des structures de nano-alliage de surface ordonnées Au_3Pd , AuPd et AuPd_3 Bilal Menguelti
ID 530	Synthesis and application of ZnO material Hassiba MESSAOUDI
ID 1744	Preparation of a cream based on <i>Opuntia ficus-indica</i> gel, zinc nanoparticles, and essential oils Mohamed Redha Itatahine, Djallal Mahiaddine, Fatima Zohra Kermezli, Fouzia Ouadah Bensalah
ID 1031	Synthèse par la méthode sol-gel et caractérisation de nanophosphores phosphovanadates activés par le terbium AHLAME MRAOUEFEL, LAKHDAR GUERBOUS, MADJID DIAF
ID 1651	Propriétés des films minces d'oxyde de baryum pulvérisé au lithium Effets du dopage Nassima HAMZAOUI, Mostefa Ghamnia
ID 1730	Molten Salt Shielded Synthesis of the Ternary Nanolayered Cr_2AlB_2 MAB phase Anis Mohamed Boutaoui, Mohamed Ait Ahmed, Anis Djilani, Houssein Eddine Ramreme, Nabil Chiker, Abdessabour Benamor
ID 1738	Formulation development of deodorant cream from Aloe vera gel, zinc oxide nanoparticles and essential oils. Chemseddine SENDJASNI, Maamar KOUIDRI ZOURGUI, Fatima Zohra KERMEZLI, Fouzia OUADAH BENSALAH
ID 1741	Structural and NLO Properties of FBiDl : A Combined Experimental and Theoretical Study khadidja soltane, naima Boubegra, khayra hammou, Mohammed Hadj Mortada Belhachemi, abdelkader Chouaih
ID 567	Different techniques for manufacturing composite coatings with incorporation of nanoparticles by the electrodeposition method ABDESSELAM YASSINE
ID 552	Study of a mechanical mill with connecting rod and crank system for mechanical alloying ZIDANE Djilali
ID 446	Microstructure characterization, phase evolution and mechanical properties of nanostructured FeAlV Zineb Hamlati, Hanane Mechri, Hacene Hachache
ID 677	Improvement of 400 kV Power Line Transmission Capacity Using a FACTS System Boukarana leila, Yassina Medghaghet
ID 644	The structural and physical properties of platinum-based half-Heusler alloys PtTiM ($M=\text{Ge, Si, Sn}$) using density functional theory (DFT). Benallal Mohamed
ID 541	illustrations of the post-gaussian approximation a binary mixture of BEC koudjil fatima, Benarous Mohemad
ID 749	Investigation on physical properties of new Silicon Telluride compounds from First-Principles Calculations. Krarcha Hadda
ID 872	Theoretical Investigation of Nonlinear Optical Properties of Push-pull Organometallic Molecules Hicham MAHDJOUB-ARABI, Mourad ZOUAOU-RABAH, Abdelkader M ELHORRI, Madani HEDIDI
ID 1477	Electronic, elastic and thermoelectric properties of quaternary Heusler compound ScTaMnIn . Miloudi Mohamed Esseddik

ID 548	Advanced computer simulations of double perovskites $\text{Rb}_2\text{ScInX}_6$ ($\text{X} = \text{Br}, \text{Cl}$): Predicting physical properties via DFT theory Youssef Seksak, Abderrahman Khalifa, Amel Merrad, Rabah Moussa
ID 1037	Enhancing Hydrogen Storage Efficiency with Charged Fullerenes: A Simulation Study ABID BOUDIAR, Habbala Bendifallah
ID 1725	Theoretical study on the physical properties of Ti_2Co (Al, Ga) Ahmed TAHRI
ID 814	Magnetic and structural properties of half-metallic ferromagnets $\text{Co}_2\text{Mn}_{0.5}\text{Pr}_{0.5}\text{Si}$. Ahmed Benidris, Siham Amari
ID 1105	Modelling and Simulation of Aerosol Particle Coalescence Using Monte Carlo Probabilistic Methods. Mohammed Fawzi AMARA, Joanna DIB, Djilali AMEUR
ID 486	Temperature sensing of double-well qubit in biwire ultracold polar molecules. Asma Tahar Taiba
ID 1312	Numerical Optimization of CuBi_2O_4 -Based Kusachiite Solar Cells with ZnO Electron and NiO Hole Transport Layers: Insights from SCAPS-1D Simulations Mousaab Belarbi, Oussama Zeggai, Mohamed El Amine Boukli Hacene, Abdessalem Bouhenna, Hadj Mouloudj
ID 1277	Effect of halogenation of polycyclic aromatic hydrocarbons on their electronic properties and chemical reactivity: DFT study Amina Benalia, Abdelali Boukaoud, Rachid Amrani
ID 1092	Structural, Elastic, Mechanical, Thermodynamic, Electronic, and Magnetic Properties of Ni_2MnZ ($\text{Z} = \text{As}, \text{Pb}$) Full-Heusler Alloys: DFT Calculation Boucif Benichou, Halima Bouchenafa, Amel Merrad, Zakia Nabi, Badra Bouabdallah
ID 1429	Numerical Simulation Studies of Structural, Electronic, and Magnetic Characteristics of the Full-Heusler Compounds Sc_2CrZ ($\text{Z} = \text{Ge}, \text{As}$) Azeddine Cherigui, Boucif Benichou, Halima Bouchenafa, Amel Merrad, Zakia Nabi, Badra Bouabdallah, Samia Radjel
ID 1435	First-Principles Insight on Electronic Structure, Mechanical Stability, and Magnetic Features of Ternary Full-Heusler Alloys Ni_2MnZ ($\text{Z} = \text{Ga}, \text{Ge}$) Samia Radjel, Boucif Benichou, Halima Bouchenafa, Amel Merrad, Badra Bouabdallah, Zakia Nabi, Azeddine Cherigui
ID 1756	Theoretical analysis of mechanism and regio- and stereoselectivity of 1, 3-dipolar cycloaddition of cyclic nitrone and substituted alkenes by DFT method samir Bouacha, chenna Malika
ID 1618	Kinetic modeling of H_2O adsorption on TiO_2 surfaces: insights into hydroxyl group dynamics and oxygen vacancy dependence Fatima Bouzidi, Ahmed Bouhekka, Abderrezak Berbri
ID 1229	Design, molecular characterization, and DFT investigation of a thiazolobenzimidazole-based organic semiconductor for photovoltaic applications Ahmed Djafri, Rachida Rahmani, Nadia Taibi, Narimane Kheddam, A. Bouchama, A. Chouaih
ID 950	Optical Properties of Materials: A Theoretical Approach Hanane Djouama, Rabie Djouama, Malika Nouadji
ID 1737	Lensing in matched interior and exterior Schwarzschild–de Sitter spacetimes Mourad Guenouche
ID 1284	Electronic and Magnetic Behavior of ZnFeSnO_4 Double Spinel Asma Hachilif, Friha Khelfaoui, Tarek Djeldjeli, Hamza Saci, Aissa Benkatlane
ID 741	The effect of In, Cu Co-doping on the electronic structure and optical properties of ZnS . First principal calculations Hakima HEDJAR
ID 1068	Optimization of Parameters for the Von Weizsäcker formula for the Determination R.M.S Hadj Mouloudj, Oussama Zeggai, Rachid Traiche
ID 1315	Structural, Elastic, and Thermoelectric property of Anti-perovskites Ag_3SX ($\text{X} = \text{I}, \text{Br}$ and Cl) compounds BERROUNA HENEN, AZZAZ YAHIA, ZAIR LATIFA, MEKHALEF BENHAFSA Leila

ID 1235	Simulation and Calibration of Heterogeneous Structures via Plasmonic Resonance and its Applications in Cancer Detection Abdellatif CHARAIF
ID 1237	The Kretschmann configuration induces surface plasmon resonance in nanostructured metal films Abdellatif CHARAIF
ID 1165	Breathers solutions of nonlinear hirota equation Zeyneb TAIBI

11:30-13:00	Oral Session 1 wednesday, June 11th, 2025
Lecture Hall A Materials and Environment	
Oral Session Chairs: Pr. Ghania HANINI, Pr. TAHRAOUI DOUMA Naima, Dr. Malika OUAGUAD	
ID 1679	Numerical Study on Improving Energy Efficiency of Bricks for Hot Climates: The Case of Msila and the Influence of Material Types Mahi Eddine Brahimi, Mustapha Maliki, Nadia Lared, Hanifi Missoum, Djihad Bennaceur, Kheira Belhamideche
ID 678	High-Performance of a Magnetic Nanocomposite loaded Agro-Industrial Pomace: "A Sustainable Solution for Tannery Effluent Treatment" Ahlem Khelali, Fatiha Benmahdi
ID 483	Comparative Analysis of Energy Optimization in Green Construction Using Insulated Materials in the Algerian South Sahara Region Issam Aouari, Aicha Rouabeh, Baizid Benahmed
ID 1057	Effect of Potassium Permanganate-Treated Date Stone Flour as a Filler on the Elastic Properties of Green Epoxy Resin Nacera BENGHANEM, Nadia Aguerssif, Nouara Chibane
ID 511	Adsorption and photocatalytic degradation study of new Ruddlesden-Popper doped oxide: $\text{Sr}_{1.8}\text{M}_{0.2}\text{FeO}_4$ (M=La, Ce, Ni) GUESSOUM Khadoudj, FOUDI Samira, RAMDANI Sonia
ID 376	GaAsPN/GaAs QDs Structure For Solar Cell Applications fethi BENYETTOU, Abdelkader Aissat
ID 1821	EXTRACTION AND CHARACTERIZATION OF PHENOLIC COMPOUNDS FROM ALGERIAN Wild FENNEL SEEDS Karima Dahmani

11:30-13:00		Oral Session 1 wednesday, June 11th, 2025
Lecture Hall B Renewal Energy Electrical Engineering		
Oral Session Chairs: Pr. Toufik TAHRI, Pr. M'hamed BARRIACHE, Dr. Mohamed BOUTABA		
ID 526	Caractérisation multiéchelle de l'isolation en PRC des câbles MT vieilliss thermiquement : SEM, FTIR, comportement mécanique et diélectrique Yasmina SEBBANE	
ID 743	Optoelectronic and Thermoelectric Optimization of Chalcogenide Perovskites via GGA-PBE and TB-mBJ hamiche korichi, SEFIR YAMINA	
ID 454	Net Metering Framework for PV Integration in Smart Grids Abderrezzaq Ziane, Rachid Dabou, Abdelkrim Rouabhia, Ammar Necaibia	
ID 1006	Operational assessment of Zaouiet Kounta 06 MW PV power plant under harsh desert conditions Chekal Affari Belhadj, Kahoul Nabil, Younes Mohammed, Kherici Zoubida, Cheghib Houcine, Necaibia Ammar	
ID 502	Development and Characterization of an Indirect Solar Dryer Integrated with a PVT Collector for Drying Agri-food Products in Saharan Regions ahmed amine larbi, ahmed mediani	
ID 1146	Optimizing a Hybrid Renewable Energy System for Remote Mobile Network Connectivity in Chlef, Algeria: A Techno-Economic Analysis Using HOMER Pro Mohamed DEKKICHE, Toufik TAHRI	

11:30-13:00		Oral Session 1 wednesday, June 11th, 2025
Lecture Hall C Mechanical Engineering		
Oral Session Chairs: Pr. KHELIL Ali, Pr. Mohamed BRAIKIA, Dr. Zakaria MADAOU		
ID 1130	Autonomous Shear Wall Distribution In Reinforced Concrete Buildings Under Earthquake Excitations Nesreddine Djafar-Henni, Nassim Djedoui, Rachid Chebili, Akram Khelaifia, Salah Guettala	
ID 1230	Impact de l'ajout d'un plancher collaborant sur la stabilité au flambement des poteaux d'un hangar métallique réhabilité ines addou, abdessamade mendli, Hichem Rakib Sebbagh, Sid Ahmed Bekhti, Anis Abidellah	
ID 1770	Creep of UHPC based on dune sand from the western erg of Algeria containing silica fume or metakaolin Ahmed TAFRAOUI	
ID 1164	MHD Investigation of Natural Convection of a Square Cavity Containing Four Rectangles Using Nanofluid Saïd Azzi	
ID 1078	Influence de l'allongement du boulon sur le comportement d'un T-stub sous températures élevées DOUAH Yasmina, FEKIR Mohamed Mokhtar, SEBBAGH Hichem Rakib, ABIDELAH Anis, BOUCHAR Abdelhamid	
ID 983	Contribution d'un renfort par contre-plaque à la résistance monotone et cyclique des assemblages métalliques Mohammed Mokhtar FEKIR, Yasmina DOUAH, Hichem Rakib SEBBAGH, Anis ABIDELAH	

11:30-13:00		Oral Session 1 wednesday, June 11 th , 2025	
Lecture Hall D Nano-Sciences			
Oral Session Chairs: Pr. BENTOUAF Ali (UTM Saïda), Dr. BOUHANI BENZIANE Hamida (UHB Chlef), Dr. BERBRI Abderrezak (UHB Chlef)			
ID 575	A DFT study of the Eco-friendly Ba-based chloro-perovskites Ba3MCl3 (M= P, As and Sb): Structural , elastic, and optoelectronic properties for efficient energy harvesting applications Hadjer BENDJILALI, Amina ARRAR, Habib ROZALE, Abbes CHAHED		
ID 800	Localization of Quasiparticles in a Bose-Bose mixture in Disorder Potentials zohra mehri, Abdelaali Boudjemaa		
ID 1320	A DFT-Guided Study of Yttrium-Containing Quaternary Heusler Alloys for Sustainable Energy Solutions Abdelbasset Abdelli, Salem Hebri, Nour-eddine Benkhettou		
ID 1294	Investigating Anisotropic Tunneling Magneto-Resistance in Antiferromagnetic Based Junction. AISSAT DJAMEL, BAADJI NADJIB		
ID 1200	First-Principles and EELS Based Analysis of Electronic and Optical Properties of Indium Antimonide for Optoelectronics Applications Fatiha Besahraoui, Kheira Chebbah, Hakima Hedjar, Lakhdar Boumia		
ID 1641	Synthèse, caractérisation structurale et évaluation biologique du composé C ₂₄ H ₁₅ O ₃ N ₃ F ₂ S Narimane KHEDDAM, AHMED DJAFRI, ABDELGHANI BOUCHAMA, Nawel ZERROUKI, Abdelkader CHOUIH		

11:30-13:00		Oral Session 1 wednesday, June 11 th , 2025	
Lecture Hall E Chemistry			
Oral Session Chairs: Pr. Miloudi Khaled, Pr. Laidani yekhlef and Dr. SARDI Amina			
ID 1088	Effect of rotation speed on the microstructure features and micro-hardness of AZ31 Mg alloy friction stir welds Khawla AMARA, Walid BEDJAOUI, Riad BADJI, Mabrouk BOUABDALLAH		
ID 661	Experimental characterization of Portevin-Le Chatelier instabilities in the industrial Al-Mg alloy at room temperature CHIBANE Nouara, BENGHANEM Nacera, AGUERSSIF Nadia		
ID 1625	Improving fatigue performance of API X70 pipeline steel through microstructural optimization via two heat treatments daas ahmed, Khelifi halima, allaoui omar		
ID 394	Synthesis, Structural Study and Biological Evaluation of a New Hydrazone Derivative: 2-((2,4-Dimethoxybenzylidene) hydrazono)-1,2-diphenylethanone – Experimental Approach and Molecular Modeling Samia DJABBOUR, Nourdine BOUKABCHA		
ID 1596	Methanol oxidation through the catalysis of an elaborated NiMn alloy Hizia MERKOUNE		
ID 1089	Enhancing Mechanical Properties of Plastic Mortars through Recycled Concrete Sand and Mineral Additions Imene Bouldoum, Boubekour Toufik, Ezziane Karim		
ID 1453	Proactive Measures for Long-Term Hydrocarbon Deposit Conservation: Implications of Water Pumping from the Terminal Complex, El Oued, Algeria Case Study Hafidha Khebizi, Bachir Benlaoukli, Said Gaci, Mohand Laid Idri, Youcef Mokrani, Nesrine Belabad		
ID 1836	To reduce organic pollutants, prepare the nanoparticles, polyethylene glycol nanocomposites, and organophilic clay. Amina Sardi ^{a,b,c} , Soumia Abdelkrim ^{j,h} ,Khadidja Kradra Brahma ^{b,f,j} , Souad Bennabi ^{a,c}		

Hall 2000 | Chemistry

ID 466	Modeling and Simulation of the Mechanical Integrity of Orthopedic Implants Based on Biodegradable Magnesium Alloys sadouki bellal, AZZOUG Rabah, Chitroub Mouhamed, BENHEBAL Hadj, BENRABAH Bedhiaf
ID 479	Etude de Premiers Principes du LaC2 mebarki djalel
ID 509	Microstructural and Mechanical Characterization of SiC-Reinforced Zn-Al-Cu Alloy Djamel ABDELKEBIR
ID 1584	Mitigating the negative effects of boring surface treatment by supplementary heat treatment halima khelifi
ID 1504	Effects of yield deformation (Re) on the corrosion of 25CD4 steel in 3.5% NaCl Djilali ALLOU, Rachid AMRAOUI, Manel BENMOHAMED, Youcef FACI
ID 925	The Impact of Coupling Medium Permittivity on Wave Penetration in Microwave Breast Imaging ZAFER Amina, CHOUITI Sidi Mohammed, MERIAH Sidi Mohammed
ID 1840	Molecular Structure Characterization of Asphaltenes Using XRD Khadidja Kradra Brahma
ID 1503	Temperature effect on the modal frequencies of aluminum honeycomb plate Redha AMRI
ID 543	Effet de post-traitement sur les propriétés physiques et mécaniques des composites intermétalliques des couches de galvanisation Younès Benarioua
ID 926	Toward sustainable crack repair: Elastoplastic study of hybrid techniques for Aluminum structures Wahiba Nesrine BOUZITOUNA, Wahid OUDAD, Nouredine DJEBBAR, Mohamed BELHAMIANI
ID 1586	Etude des Propriétés structurales, électroniques et magnétiques du heusler ternaire GdRuSb Yamina GHLEM, Nabila Mehtougui
ID 1576	Finite Element Simulation of Tensile Shear Behavior in Resistance Spot Welded Overlapped Joints Ismail Benchadli, Mustapha Benachour, Fethi Sebaa, Nadjia Benachour
ID 1036	Computational insights into the structural, mechanical, electronic and magnetic properties of GdAlO₃ semiconductor in cubic-perovskite using FP-LAPW method Aboubakr Esseddik KOURDACI, Khaled Ibn El Walid BENBRAHIM, Boualem ABIDRI, Djamel RACHED
ID 909	Injectable Biomaterials for the Non-Surgical Stabilization of Osteonecrotic Bone Amel LAIDI, Mohammed AMMAR
ID 1220	Formulation, application, and physicochemical characterization of epoxy coatings with conductive polymers for corrosion resistance in a 3.5% sodium chloride acidic environment. Nacer Mounir, Choayb Bouhafs, Hamid YOUSFI
ID 794	Compact Frequency-Reconfigurable Patch Antenna: Impact of Substrate Materials on Performance FROUDA Nour El Houda, BERKAT Abdellatif, AZZAZ RAHMANI Salima
ID 974	Ab Initio Analysis of RbNbCd and RbNbZn Half-Heusler Compounds as Promising Candidates for Thermoelectric Applications Ismail OUADHA, Ahmed Azzouz Rached, Nouredine Bouteldja, Abdelkarim Herzi
ID 976	Theoretical Analysis of YXO₃ (X=Ti & Fe) Orthorhombic Perovskites for High-Energy Devices Ismail OUADHA
ID 610	Impact of weak magnetic field and temperature on the corrosion of aluminum AL/XLPE 0.6/1KV Mohammed Mounir BOUROUIS, Rabeh SLIMANI, Sahnoun ZENGH, Ismail DRAI

ID 747	A contribution study of rocks samples from Khangat Sidi Nadji Biskra RABIAA BENESEDDIK, abderrahim achouri, aziez zeddouri, meriem touil
ID 1375	The concentration effect of extended BSA protein adsorption at solid surface TADJINE MOUSTAFA, Bouzidi Fatima, Berbri Abderrezak, Bouhekka Ahmed
ID 1648	The evaluation of phosphate rock quality from Algerian deposits and its suitability for phosphoric acid and fertilizer production represents a matter of critical regional importance ameur amara
ID 756	Advanced Thermo-Chemical Purification Of Taibet Sand for High-Purity Sand Production TOUIL Meriem, ACHOURI Abderrahim, MEFTAH Nassima, BENESEDDIK Rabiaa
ID 1134	Welding parameters effects on static and fatigue behavior of dissimilar Steel/Al-alloy joints: Review and Synthesis Mustapha BENACHOUR, Nadja BENACHOUR, Abdelkader BENYOUCEF, Fatima Zohra SERIARI
ID 1682	The impact of the macroscopic - scale polarization on the piezoelectric characteristics of poly (vinylidene fluoride) (PVDF) SOUHA DEBILI, ALI GASMI
ID 1463	Experimental Analysis of the Resistance of Sanitary Product Enamels to Fish Scale Defects Adel HADJ AMAR
ID 1459	Advanced microstructural characterization of WC composites repaired with TIG Malek HEBIB, Bouzid MAAMACHE, Brahim BELKESSA, Billel Cheniti
ID 1102	COMPUTATIONAL OF ELECTRONIC BAND STRUCTURE AND ELECTRONIC CHARGE DENSITY FOR THE TERNARY ALLOY Hadjer Saheb
ID 978	Theoretical Analysis of YXO₃ (X=Ti & Fe) Orthorhombic Perovskites for High-Energy Devices ismail OUADHA, Ahmed AZOUZ RACHED, Noureddine BOUTELDJA, Abdelkarim HERZI
ID 1533	Influence of Rotational Speed on Temperature Distribution and Joint Quality in Rotary Friction Welding of Dissimilar Stainless Steels" Mekahal Abdelhamid
ID 1129	Etude ab-initio de la stabilité mécanique d'un matériau ferromagnétique full heusler FARES Zineb
ID 1147	Synthesis, Characterization, and Anti-Hemorrhagic Activity of Silver-Ketoprofen Complexes Kamel MOKHNACHE
ID 656	DFT-Based Insights into the Antioxidant Activity of Flavonoid-Metal Complexes MEDIGUE Nor El Houda, FEDDAL Samira, BECHOHRA Lina Linda, KELLOU-TAIRI Safia
ID 1579	Selenium-Based Hybrid Crystalline Materials: Synthesis, Structural Elucidation, and Quantum Chemical Analysis Sonia Baaziz
ID 1015	Advancing Green Chemistry: Eco-Catalyzed Synthesis of N-vinylcarbazole-Based Copolymers Using Clay Materials Bouchra AIT SIDHOUM, Mohammed Chakib BAGHDADLI, Rachid MEGHABAR
ID 524	Integrated Computational and Experimental Analysis of a Thiourea-Based Single Crystal: Structural and Electronic Characterization Nour Eddine BENHARKAT
ID 1058	Green Synthesis and Antioxidant Evaluation of Selenium Nanoparticles Using Cocoa Bean Shell Extract Bouamama assia, reguieg fatiha, marina ramos
ID 1750	Synthesis, Characterization, and Evaluation of the Antibacterial and Enzymatic Potential of Benzimidazole Compounds: An In Vitro and In Silico Study DJAAGER-MOUSSA RAZIQA, Leila DJAHNIT, Chrif GUIASSA, Lakhemici KABOUB
ID 393	Synthesis, Crystal Structure, Electronic Properties, and Molecular Docking Study of [5-Imino-7-phenyl-5H-thiazolo[3,2-a] pyrimidine-6-carbonitrile] Samia DJABBOUR, Nourdine BOUKABCHA
ID 1211	Génération d'un pharmacophore commun à une série de dérivés de la Curcumine Samira FEDDAL, Nor El Houda MEDIGUE, Safia KELLOU-TAIRI
ID 1499	Green Synthesis of Silver Nanoparticles Using Clove Extract for the Removal of a Cationic Dye

	CHIKH Hadjer, Cherifi zakaria, Derdar hodhaifa, Rachid Meghabar, Chebout redouane, Bachari khaldoun
ID 1085	Sustainable Treatment of Industrial Dye Effluents via Fenton and Photo-Fenton Advanced Oxidation Processes khoussa hanaa, TOUAA Nesrine, BENABBOU khalil
ID 1353	DFT-Based Molecular Modeling, ADMET Prediction, and Molecular Docking Studies of Transition Metal Complexes of Ortho-Phenylenediamine and Its Substituted Derivatives Noura KICHOU, Manel TAFERGUENNIT, Nabila Ghechtouli
ID 1479	Theoretical Investigation of DMACB via DFT and Hirshfeld Surface Analysis: Insights into Molecular Interactions and Optical Potential Naima BOUBEGRA
ID 1484	Leveraging Aspen Plus for the Simulation of Continuous Pharmaceutical Manufacturing: A Case Study on Ibuprofen Malika Ouagued, Halima Maameri, Lamia Seddik
ID 1497	Simulation-Based Comparison of Ethyl Acetate Production via Reactive Distillation and Conventional Process Using Aspen HYSYS Malika Ouagued, Khouloud Keddar, Selsabil Attafi, Loubna Hammadi
ID 846	Experimental and morphological studies of an expired antibiotic drug as a green corrosion inhibitor for brass in nitric acid solution. Sofiane Sebiane, Farida Kellou-Kerkouche, Brahim Idir
ID 1017	Synthesis and Structural Analysis of poly(N-vinylcarbazole-co-Isobutyl Vinyl Ether) via Clay-Catalyzed Cationic Copolymerization Bouchra AIT SIDHOUM, Mohammed Chakib BAGHDADLI, Rachid MEGHABAR
ID 1566	Valorization of a medicinal plant, Artemisia herba -alba asso, from the Djelfa region (Algeria), through Phytochemical screening MAMMERI Bakhtia, KOUIDRI Mohamed
ID 1575	Valorization of medicinal plant, Artemisia herba -alba asso, from the Djelfa region (Algeria), through Phytochemical screening. MAMMERI Bakhtia, KOUIDRI Mohamed
ID 1300	Synthesis, Characterization, and Theoretical Study of a Zinc(II) Complex: Crystallographic Analysis, NLO Properties, and Molecular Docking Study Abdelghani Bouchama, Ahmed Djafri, Nadia Taibi, Narimane Kheddam
ID 599	Valorisation du chitosane dans le traitement du rouge Trisacrylamide : conception d'hydrogels composites efficaces. Nihel DIB, Houari SEBTI, Fatima Zohra SEBBA, Boumediene BOUNACEUR
ID 1502	Regeneration of 'Mobile DTE 10 Excel 32' used lubricating oil by acid treatment guendouz samira
ID 996	Biosynthesis of Silver Nanoparticles Using Moringa: A Green Approach for Novel Applications CHIKH Hadjer, Cherifi zakaria, Derdar hodhaifa, Rachid Meghabar, Chebout redouane, Bachari khaldoun
ID 461	Amino Acid Profile Study of Faba Bean (Vicia faba L.): A Chemical Approach for Nutritional Valorization Nacera HEDIA, malika meziane ahmed, khedidja boudour
ID 1247	Thermal and Chemical Properties of ABS/15% PMMA Bilayer Polymer Sheet ABDELWAHAB KHELEDJ
ID 528	Antioxidant Comparison between Essential Oil, Ethanol and Water Extracts of Moringa oleifera Leaves fatiha arioui, safia ali haimoud, amina delmi bouras, zohra Boukefoussa, salima boudane, manel allem
ID 662	ÉVALUATION DU POUVOIR ANTIOXYDANT ET DE LA COMPOSITION PHENOLIQUE DE PLANTES MEDICINALES GASTRO PROTECTRICES NEHARI ASSIA, SADOK zeyneb, KOICHE Malika, MEDJKANE Meriem
ID 444	Computational Study of Salvia officinalis Compounds Using Density Functional Theory (DFT) and Their Potential Biological Activities. RIDHA BENDAAS, Khaled HANFOUG

ID 481	The Thiobarbituric Acid Reactive Substances (TBARS) Test as an Indicator of Essential Oil Oxidative Stability. Boutemtam Leila
ID 464	Extraction & Comparative study of activities: Antibacterial, Antifungal and Antioxidant of extracts of essential oils from cumin seeds and fennel seeds. fayssal boudjellal
ID 374	CO-CRYSTALLIZATION BY FUSION OF RAMIPRIL AND METRONIDAZOLE WITH A 9/1 RATIO (RM) Fatima MILES
ID 788	Source naturelle de molécules antioxydantes – étude Bio-chimique. SADOK Zeyneb
ID 1473	etimation de leffet de site topographique de la ville de boumerdes par une approche numerique salima ait el hocine, FATIHA DEBICHE, TAHAR MESSAFER
ID 1156	Title: Mass parameters, Bohr Hamiltonian and resolution for the 160Gd isotope Besma Belaifa, Atika Mehedi
ID 1309	Assessment of Seawater Intrusion Dynamics in a Coastal Aquifer: Case of the Bay of Algiers BENAMAR Mohammed Abdelillah, KHOUS Dalale, CHORFI Hadjer, ZEMOUR youcef
ID 440	GREEN CHEMISTRY APPROACH TO HEMI-SYNTHESIS USING CINNAMOMUM CASSIA ESSENTIAL OIL AS A RENEWABLE FEEDSTOCK BRAHIM CHERFAOUI
ID 817	Synthèse of an activated Carbon-nanocomposite for the traitement of pollutants TABTI Senouci
ID 411	Synthesis and characterization of activated carbon produced from a raw lignocellulosic material for the adsorption of pollutants soufi belkhir, cherbi rekia, aissaoui regadia
ID 1768	Evaluation of the antioxydant and antidiabetic effect of Berberis vulgaris Wafa Kouadri Boudjelthia

14:30-16:00	Oral Session 2 wednesday, June 11th, 2025
Lecture Hall A Materials and Environment	
Oral Session Chairs: Pr. Abderahmen DJAAFER, Dr. Malika MEZIANE, Dr. Kamel MOKHNACHE	
ID 594	Structural, Environmental and Economic Benefits of Using Glass Powder for Manufacturing High-Performance Concrete Oussama Doudi, Ahmed Taфраoui, Abdelkadir Makani
ID 843	Valorization of Dam Sediments as Additives in Self-Compacting Eco-Concrete: A Sustainable Engineering Approach Ahmed Sweiti, Rabah Chaid, El-Hadj Kadri
ID 752	RECENT PROGRESS OF HALIDE PEROVSKITES SOLAR CELLS Krarcha Hadda
ID 833	Mitigating Environmental Impacts of Phosphate Mining: Strategies for Sustainable Waste Management at Djebel-Onk Hayet Makhdoumi, Imen Aichouri, Mohamed Chettibi
ID 1652	Synthesis and application of bidimensional 2D-materials MXenes/MBenes as oil additives: for friction and wear reduction. Abdessabour BENAMOR, Nabil Chiker, Sara Ramdoun, Hiba Benamor, Adel Haddad, Youcef Hadji, Mohamed Hadji
ID 1032	Temperature Influencing Biofilm Adhesion and Their Impact on Biocorrosion of Carbon Steel in Industrial Environments Hadjer DIDOUH, Omar Bouledroua, Mohammed HADJ MELIANI
ID 1633	Identification of Work Hardening Behavior of Steel Sheet Using Digital Image Correlation Technique Amina BELGUEBLI, Ibrahim ZIDANE

14:30-16:00		Oral Session 2 wednesday, June 11 th , 2025	
Lecture Hall B Renewal Energy and Electrical Engineering			
Oral Session Chairs: Pr. TALEB Rachid, Pr. BENBOUALI, Dr. Boubaker BESSEDIK			
ID 1103	Enhanced Direct Current Control with Pulse Width Modulation PWM for Three-Level Shunt Active Power Filter FATIHA BOUHADJI, Ismail Bouyakoub, F. MEHEDI, Z. REGUIEG, Walid Mohammed KECEMI		
ID 512	Application of Enzymatic Pretreatment of Whey for Biohydrogen Production in Semi-Continuous Mode Anissa Mouna Khezzar, Esma Bouchareb Mahfouf, Saadia Benelhadj Djelloul		
ID 462	Processor in the loop verification of A Dual-Extended Kalman Filter used in the control of a Grid-Connected PV inverter Aboubakr Brahimi, Djallel Kerdoun, Abderraouf Boumassata, Kaouthar Lalia Dahmani		
ID 563	Experimental Characterization of a Natural Sugar Alternative (Erythritol) as a Phase Change Material for Latent Heat Storage in Solar Cookers, using the T-History Method. Merouane Zedairia, Mahfoud Kadja, Arezki Harmim		
ID 783	Design and Implementation of a Smart IoT-Based Energy Meter for Real-Time Monitoring of Photovoltaic Systems ROUABHIA Abdelkrim		
ID 1140	Study and simulation of a hybrid PV/ Battery system with a load Elhadj RAHMA, Toufik TAHRI, Mohamed DEKKICHE		
ID 1739	2D Underactuated Biped Robots: Modeling and Control. Ali Guessam, foudil Abdessemed		

14:30-16:00		Oral Session 2 Wednesday, June 11 th , 2025	
Lecture Hall C Mechanical Engineering			
Oral Session Chairs: Pr. Hammou ZAHLOUL, Mohammed MANDAS, FEKAOUNI Mohammed			
ID 450	Analysis of Subharmonic Instabilities of Interfacial Gravity–Capillary Waves Chikhi Sara, Allalou Nabil, Debaine Mohammed		
ID 713	Damping Reduction Factors Evaluation Considering Epicentral Distance and Local Soil Characteristics Effects Abdelmalek Abdelhamid, Baizid Benahmed, Issam Aouari, Idriss Rouaz		
ID 899	Numerical investigation on free convection inside enclosure with discrete heating from below Benameur Bouamoud, Samir HOUAT		
ID 535	Statistical Analysis of the Effect of Cutting Parameters on Tool Wear and Surface Roughness in Hard Machining of AISI 4140 Mohand Ouidir Sahbi, Abdelhamid Sadeddine, Mohamed Athmane Yallese, Salim Belhadi, Abdelatif Belamri		
ID 1416	Contribution to the Assessment of the Energy Performance of Reinforced Concrete Buildings in an Arid Climate: Case of the City of Bechar Imane BENOUDJAFER, Slimane ZIAD, Ibtissam BENOUDJAFER		
ID 1393	Influence du relevage hydraulique du tracteur agricole sur le transfert de charge hussine Amar		
ID 847	Predicting Earthquake Ground Motion Parameters in Soft Soil Sites Using Nonlinear Regression Issam Aouari, Aicha Rouabeh, Baizid Benahmed, Mehmet Palanci		

14:30-16:00		Oral Session 2 wednesday, June 11 th , 2025	
Lecture Hall D Nano-Sciences			
Oral Session Chairs: Pr. BOUDJEMAA Abdelaali (UHB Chlef), Dr. HADJ KHELIFA Mohamed (UHB Chlef), Dr. RAKRAK Kaddour (UIK Tiaret)			
ID 1439	Preparation and characterization of a series of Nano-perovskites LaAl1-XFeXO3 (X= 0- 0.1- 0.2) Hamza Medjadji		
ID 1500	Influence of Black Silicon Morphology Combined with FSF/SiO ₂ /SiNx Stack on Optical and Electrical Properties for Photovoltaic Applications Nabil Khelifati, Fatima Samili, Nesrine Laidoune, Ghania Fortas, Leila Harkat, Amine Mefoued, Warda Ouldmohamed, Brahim Mahmoudi		
ID 1276	Magnetohydrodynamic Natural Convection of Nanofluids in a Square Cavity with an Embedded Cold Block KHERROUBI Seddik, MODERRES Mourad		
ID 1673	Synthesis and Characterization of Cobalt-Doped Nanoferrites BENKRIFA Zohra		
ID 1131	la méthode verte pour la préparation de nanoparticules d'oxyde de zinc BOUTALBI ABDERRAHMANE		
ID 476	Encapsulation d'huiles essentielles dans des nanoparticules biodégradables : une stratégie antifongique contre les infections nosocomiales ZAHRA DOUILI		

14:30-16:00		Oral Session 2 Wednesday , June 11 th , 2025	
Lecture Hall E Nano-Sciences			
Oral Session Chairs: Pr. KHENATA Rabah (UMS Mascara), Pr. BELABBAS Mohamed (UHB Chlef), Dr. REKAB-DJABRI Hamza (UAMO Bouira),			
ID 458	Reducing of the Preparation Time and improving the Critical Temperature of the Bi-2212 Superconducting Phase using the Photopolymerization Reaction. Mourad Mimouni, Chaima Rabhi, Ghani Rihia, Mebrouk Ghougali, Mohammed Sadok Mahboub, Samia Ramdani		
ID 1735	A b Initio Study of the Structural, Electronic, and Optical Properties of Al _x Ga _{1-x} As Alloys for UV Optoelectronic Applications Kheira Chebbah, Fatiha Besahraoui, Lakhdar Boumia		
ID 1059	Modeling Multi-Step Transitions in Hybrid Spin-Crossover Nanostructures: Elastic Coupling Effects Hassane OUBOUCHOU, Rachid TRAICHE, Kamel BOUKHEDDADEN		
ID 1433	Nanoparticles effect on the hybrid journal bearing performances BOUBENDIR SID ALI, MALKI Maamar, Larbi Salah, BOUBENDIR Lynda		
ID 1158	Influence of Position-Dependent Effective Mass on Bose-Einstein Condensate. miraoui somia		
ID 1007	Isomorphism between the electro-elastic modeling of the spin transition and Ising-like model with competing interactions: Elastic generation of self-organized spin states in 1D SCO chain. Traiche Rachid, Oubouchou Hassane, Mouloudi Hadi		

16:15 – 17:00

Poster Session 3 | Wednesday, June 11th, 2025

Hall 2000 | Materials and Environment

Id 638	Implementation of the Systemic Approach and Systems Engineering in the Small Dams Design Kouider Benmia, Rouissat Bouchrit, Bouanani Abderrazek
ID 1116	The factorial design applied for modeling the metronidazole antibiotic removal in microbial electrolysis cell integrated with electro-fenton process Nadjiya FETTAH
ID 1556	Etude la cinétique de l'adsorption compétitive des colorants Bleu Evans et Rouge Congo sur l'argile marneuse naturelle Nora Sahraoui
ID 390	Enhancing photocatalytic performance by Synthesis and Characterization of TiO ₂ Nanoparticles loaded on Iron Oxide Sludge for Photodegradation of Organic Pollutants mourad ouanid, Boubakeur Asli, rachida cherrak, zerrouk Bekri
ID 1701	Characteristics of Micro Cellulose extracted from Seaweed Wastes as Reinforcement green Composite Nihad Amamra, Samira Maou, Yazid Meftah, Asmaa Benharket, Leila Djahnit, Fatima zohra kermezli, Fouzia Ouadah bensalah
ID 422	Development of carbon materials with controlled porosity for the elimination of emerging organic contaminants AHMED BENDJEBBOUR, Bendjelloul Meriem, Benhachem Fatima Zahra, Amairi Chaimaa, Seghier Abdelkarim, Boucherdoud Ahmed, Elandaloussi El Hadj
ID 1252	Low cost Biochar and biochar composites derived from marine residues for eco friendly uses Asma Benharkat, Samira Maou, Yazid Meftah, Nihad Amamara, Leila Djahnit, Fatima zohra Kermezli, Fouzia Ouadah bensalah
ID 734	Montmorillonite/Alginate beads for the removal of malachite green from aqueous dye solutions Boukhatem Horiya, Rezala Houria, Boudriche Lilya, Djouadi Lila, Saidani Amira, Douba Amel, Bacha Salah
ID 455	Photocatalytic performance and environmental applications of Cr:ZnO and Al:ZnO thin films Dikra Bouras, Mamoun Fellah, Fouzia Hamadi
ID 1567	Hydration heat of binders with various construction waste powders. MANAL EZZIANE, Karim EZZIANE
ID 558	Recovery of sludge discharged by the Taksebt treatment plant in Tizi Ouzou in Algeria AIT MEDJBER Farida
ID1004	Response Surface Methodology for Optimizing Anionic Dye Adsorption from Synthetic Wastewater by Superparamagnetic Nanoparticles Hennaoui Siham, El-Miloudi Khaled
ID 685	Impact of Combining Industrial Waste-Based Fillers on the Physicomechanical Properties of Desert Sand Concrete mohamed merniz, Madani BEDERINA, Abdelaziz MEDDAH
ID 1029	Cementitious Materials in the Oil Industry: A Study on the Effect of Temperature on Oil Well Cement Properties and Its Role in Environmental Protection and Equipment Safety Nabil Toum
ID 1080	Évaluation de la compacité des mélanges granulaires secs destinés à la formulation du béton à l'aide du modèle fractal d'empilement granulaire Mohammed ROUIBI, Kaddour CHOUICHA
ID 1010	Computational investigation of CsSnBr ₃ perovskite: Insights for solar cell materials Samir CHAREF, Dhilal ALOUANI
ID 1743	Development of a Chemical Sensor Based on Mercury thin Film and Gold Nanoparticles for Selective Detection of Cadmium Ions Cd ²⁺

	ameur amara
ID 1142	Low-Cost Biosorption of Dyes from Wastewater Using Agricultural Waste Materials Nawel Zerrouki, Abdelkarim Seghier, Wahiba Cherrak, Narimane Kheddam
ID 886	Effet de la variation de finesse sur la réactivité de la poudre de béton recyclé djamal eddine atamna, mohammed siline
ID 768	Assessment of the Efficiency of the Activated Sludge Wastewater Treatment Plant at Ain Houtz, Tlemcen, Northwestern Algeria. Abderrahim BADRAOUI, Sidi Mohamed TIAR, Chérifa ABDELBAKI, Madani BESSEDIK
ID 1330	Gilthead sea bream gelatin as wall-forming material for microencapsulation farah ben abbes, Abir Drihem, ikram Bentelha
ID 579	Development and Optimization of Hexavalent Chromium-Free Eco-Friendly Anodizing Strategies Using TSA and TPA Electrolytes to Enhance Corrosion Resistance, Surface Durability, and Long-Term Protection of 2024 Aluminum Alloy for Aerospace and High-Performance Industrial Applications Manel BENMOHAMED, Ahmed HADDAD, Hadil meriem BOUHADJAR, Hassiba BOULHOUACHE
ID 952	A Review on eco-friendly fibres reinforced lime mortar: a solution for durability in extreme climates mohamed boudjemaa, ali zaidi, khadra bendjillali
ID 862	Transient Hygrothermal Aging Analysis of Thin Polymer Matrix Composite laminate Behavior. Billel BOUKERT, Mohamed Khodjet Kesba, Amina BENKHEDDA, El abbes ADDA BEDIA
ID 1143	Physical properties and thermoelectric performance calculated by first principle of Half Heusler IrMnAs alloy salim Kadri, Rabbie Amraoui, Aziza Boutouta
ID 760	Traitement électrochimique des eaux usées de colorants azoïques synthétiques par électrocoagulation : optimisation et évaluation de l'efficacité Souad CHERIFI, Meriem FIZIR, Abir MAHAMMEDI, Bakhta NOUNE, SalahEddine AOUDJ, Abderrahmane Djafer
ID 1640	Mesoporous Silica-Based Polymer Composite Beads for Efficient Malachite Green Removal from wastewater Houda DOUBA, Meriem Fizir, Nadjia Kebiti, Smain Sabour, Mourad Bidaoui, Faiza Zermane, Benamar Cheknane
ID 1150	Stratégies passives d'amélioration thermique des briques creuses en climat chaud par intégration de MCP HADJADJ Mohammed, NEHARI Taieb, ZEHOUANI Zahra Assala
ID 1612	Structural, optical and magnetic properties of CoFe2O4 nanomaterial for environmental applications Hani Hadjoudja, Charafeddine Sedrati, Hichem Sedrati, Souheyla Gagui, Bouzid Hadjoudja, Baghdadi Chouial
ID 1121	Valorisation de déchets végétaux pour l'adsorption d'un micropolluant pharmaceutique : étude paramétrique et cinétique
ID 1727	Effect of cement and lime ratios on the compressive strength of clay bricks made from different soil types Zakarya Laouidji, Mourad Boutlikht, Kamel Hebbache, Abdellah Douadi
ID 1260	Insight into the structural, electronic, and magnetic properties of vanadium-doped Li2S compound Hemza Mancera, Habib Rached
ID 518	EFFECT OF Sn DOPANTS ON THE STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF ZnO THIN FILMS GHERIB MEBARKA
ID 863	"First-Principles Investigation of the Structural and Electronic Properties of a Binary Intermetallic Compound" Mimoun Benouis, Lakhdar Boumia, Ali Bentouaf
ID 1352	la Rétention du CO2 par MCM-48 Modifié par des Dendrimère Ghomari Mohammed kamel, Boukoussa Bohdjar

ID 841	OPTIMISATION OF CELLULOSE FILMS USING THE EXPERIMENTAL DESIGN Zineb Rais
ID 1123	Analyse DFT de la stabilité structurale et phononique d'un nouveau demi-Heusler basé sur un élément alcalino-terreux prometteur pour des applications énergétiques durables hanane saib, hanane Benmahdjoub, Wiam Maafa
ID 725	Application of a Rigorous QA/QC Protocol to EDXRF Spectrometry for the Elemental Analysis of Archaeological Materials. SEGHIR ABDALLAH Houcine, BENAMAR Mohammed El Amine, BEKHTI Wided, ABDELLAH ELHADJ Adel
ID 913	Distribution of Rare Earth Elements in Archaeological Soils NABILA TAIBOUNI, NAIMA BELOUADAH, LEILA YETTOU, OUAFA BEN AZOUZ, NAZIHA BOUDRA, CAMELIA YASMINE MEDOUR
ID 779	Elastic and Thermodynamic Properties of Niobium Carbide Compound: Hard Anti-Corrosion Coating Material via Ab Initio Method ABDELLAH ELHADJ Adel, BELKHARROUBI Fadila, AZZI Saliha, SEGHIR ABDALLAH Houcine
ID 1216	L'effet des stabilisants ciment, chaux et pouzzolane naturelle sur la résistance à la compression des blocs en terre crue BTC Sid Ahmed BEKHTI, Nasr-Eddine BOUHAMOU, Imene BENAÏSSA, Souad MALAB, Abdelkadir BELGHIT, Nadia BELAS
ID 576	Effect of Pressure and Temperature on Total and Partial Magnetic Moments in Mn₂NiAl Kadri Salim
ID 1118	Removal of anionic dye by adsorption on activated carbon khalili khadidja
ID 1073	Numerical Simulation of Atmospheric Dielectric Barrier Discharge in Oxygen gas using COMSOL Multiphysics Nesrine Labdouni, Djilali Benyoucef, Hocine Tebani
ID 902	Synergie entre granulats recyclés et fibres d'alfa pour optimiser la conductivité thermique du béton. Benguedouad Ouissam, Siline Mohammed, Ghorbel Elhem
ID 956	Etude de premier principe des propriétés structurales, électroniques ,élastiques et optiques du pérovskite halide CsGeCl₃ Souad BOUSALEM
ID 536	Material-based Green hydrogen storage Youcef SID AMER
ID 609	Évaluation du potentiel des fibres textiles issues de PET recyclé par analyses physico-chimiques et mécaniques Omar HASSI, Rabeh SLIMANI, Sahnoun ZENGHAH, Ismail DRAI
ID 1198	Comportement thermo-mécanique d'un composite cimentaire à base de sédiments issus des barrages Hanaa Kawther TERRAH, Zine El Abidine KAMECHE, Hocine SIAD, Mohamed LACHEMI, Youcef HOUMADI
ID 1154	Zéolites de mordénite à métaux de transition échangés : étude comparative des changements structuraux et texturaux IKRAM YSSAAD, FATIHA HAMIDI
ID 664	Crude glycerin recovery from date kernel ,rapeseed (Brassica napus L) and linseed (Linum usitatissimum) oils and pharmaceutical application farah ben abbes, Rachid Belhattab, hadjer zekkour
ID 1135	Estimation of physical properties and transport performance of Heusler Co₂MnGe alloy based on DFT calculations Aziza Boutouta, Salim Kadri, Rabbie Amraoui, Amor Bouaricha
ID 395	EXTRACTION OF PUNICA GRANATUM ESSENTIEL OIL AND APPLICATION IN THE PREPARATION OF ORGANIC SCENTED CANDLES Nardjesse Nemiche
ID 1726	Ab initio investigation of the physical properties of a Half-Heusler alloy said chahlat, Sabrina BOUNAB, Lahcene NASRI

ID 1680	Cinétique et mécanismes d'adsorption des polluants organiques sur un biopolymère en solution aqueuse AMAIRI chaimaa, Bendjelloul Meriem, Benhachem Fatima Zahra, Bendjabore Ahmed, Boucherdoud Ahmed, Seghier Abdelkarim, Elandalousi El Hadj
ID 1688	Impact of Reducing Nitric Oxide on the Degradation of Acid Green 25 Dye in Gliding Arc Discharge Ghania Benhamdi
ID 1249	Study of the Dielectric Function as a Fundamental Optical Property of CdMnTe Hanane BENMAHDJOUR, Habib RACHED, Sihem AMARI, Amel MERRAD, Hanane Saib
ID 807	Eco-Materials for Water Treatment: Performance of a Cynodon dactylon-TiO₂ Bio-composite for Decolorization of Textile Wastewater Benzerafa Asma, Hamoudi Aicha, Boulaouche Tarik
ID 1097	Waste-to-Resource: Functional Hydrogels Derived from Polymers for Environmental and Agricultural Sustainability Khayerddine KHROUFI
ID 868	Propriétés rhéologiques et mécaniques des mortiers autoplacants à base de sable recyclé et laitier Omar Kouider djelloul, Touhami Tahenni
ID 413	synthesis and characterisation of activated carbon produced of raw lignocellulosic material for the adsorption of pollutants soufi belkhir, aissaoui regadia, Cherbi Rekia
ID 1082	Carbon Nanotube-Based BioFET: Toward Reliable and Rapid Detection of SARS-CoV-2 oussama zeggai

09:00 – 09:45

Poster Session 4 | Thursday, June 12th, 2025

Hall 2000 | Renewal Energy and Electrical Engineering

ID 1038	Free vibration analysis of behavior for functionally graded FGM sandwich plates KRALIFA ABDERRAHIM SOUFFIANE, Benferhat Rabia, Zidour Mohamed, Tahar Hassaine Daouadji, Tayeb Bensatallah
ID 1708	HIGH TEMPERATURE BEHAVIOR ON THE PROPERTIES OF FIBER CONCRETE bennaceur ali, mazouz badis, achour yacin
ID 385	Experimental Assessment of Grid-Induced Modifications in Turbulent Jets for HVAC Applications Assiétou Moussa Maiga, Fatima Zahra Khedim, Abdelhak Fellague Chebra, Ali kHELIL, Mohamed Braikia
ID 402	Fault-Tolerant Fixed-Time Control Using Self-Structuring Networks for a Coaxial Rotor UAV with Sensor and Actuator Fault aymene bacha, Abdelghani Chelihi, Mohamed Achraf Senoussi, Aimen Abdellah Bouais, Mohamed Lakhdar Tiar
ID 1786	Biotechnological Valorization of Molasses for Bioethanol Production in Algeria Fatima Zohra Baouche, Djilali ELHADJ Djilali, Cherifa KARA MOSTEFA KHELIL, Ihssen Hamzaoui, SELIM Aya, HATTAB Soumia
ID 1643	A Wavelet-Based Approach for Improved Defect Localization in Ultrasonic Non-Destructive Testing Ahmed BAHY AZZOUOUM, Ahmed Benyahia, Houcine GUESMI, Nabil Hafi
ID 718	Energy management of an electric vehicle with a hybrid storage system: Battery/super capacitor Basma Benbouya
ID 1774	Artificial Neural Networks for Incompressible Flows.

	Abdelbari Merwan
ID 1775	Contribution to Wind Turbine Control Using AI-Based Inverter for DFIG Systems Azzedine Khati
ID 823	Static Optimization of the Combined Heat and Power Economic Dispatch (CHPED) Using the AVOA Method kaouthar lalia dahmani, aboubkre brahimi
ID 1771	Numerical Study on the Effect of Intake Manifold Parameters on the Internal Combustion Engine Performances B. MENACER , C. Belhout
ID 1772	Simulation Numérique d'Écoulements Non Newtoniens dans des Mélangeurs Statiques à Gouffres : Influence des Paramètres hydrodynamiques et énergétiques C.Belhout, K. Amrani , F.Z.Khelif, B. MENACER , M.Bouzit
ID 1422	Effect of Flexible Vortex Generator Length on Flow Dynamics and Thermal Mixing in a Channel with Discrete Heat Sources khaoula Dehdouh
ID 538	Hybrid GA-PSO Optimization of Model Predictive Control Parameters for Enhanced Performance in Nonlinear Chemical Processes habiba houari
ID 1418	Effect of Space-charge Field Time variation on the Photorefractive Effect in Semi-insulating GaAs. Ibrahim LAGRAA, soufyane TALEB
ID 732	Satellite patch antenna array based on FR4 Substrate dielectric materiel soumaya larouci, khaoula toudert, Amine rabah
ID 1507	Control Of Coupled Axial-Torsional Vibrations In Petroleum Drill String Using A Fractional Approach Sabrina MEDDAH, Abdelhakim IDIR, Mohamed Zinelabidine DOGHMANE, Sid Ahmed TADJER, Madjid KIDOUCHE
ID 586	Broken Bar Fault Detection In Induction Motor Using Leakage Flux Analysis Method Rabeh Chehda, Salah Marih, Mohamed Boudiaf Koura
ID 487	Fabrication of a Low-Cost Vertical Dip Coating Machine for Thin Film Deposition SADOUKI Bellal, AZZOUG Rabah, BENRABAH Bedhiaf, BENHEBAL Hadj
ID 1035	Electrochemical Corrosion behavior of API X70 steel in 1% Wt HCl, H2SO4 and H3PO4 Mellak Nadjat, Zidelmel Sami
ID 1585	Study of the Synergistic Effect of Two Advanced Oxidation Processes on the Degradation of Chlortetracycline Antibiotic Mustapha ZOUANTI, Djamila AOUAMEUR
ID 551	"Optimization and Comparative Validation of Discharge Calculation Formulas for Submerged Rectangular Weirs in Geotechnical Structures" bachir mebarki, Faris BELAABED1, Ishak ABDI, Leila ARABET
ID 1014	Robust Detection and Separation of Short Circuit Fault, Saturation Effects, and Supply Asymmetries in Permanent Magnet Synchronous Motor Drives Mohamed Boudiaf Koura, Salah Marih, Rabeh Chehda
ID 1734	Optimisation des paramètres de soudage par ponts et leurs effets sur le comportement mécanique RAMDANI MOHAMMED, BENACHOUR Mustapha, RAHOU Mohammed
ID 1152	Hybrid Comparison of Empirical and artificial neural network Models for Fatigue Crack Propagation abdelfetah moussouni, Nadjia BENACHOUR, Mustapha BENACHOUR
ID 1041	Comportement mécanique des stratifiées composites sous chargement statique : effet de l'empilement et de l'orientation des fibres KRALIFA ABDERRAHIM SOUFFIANE, TAHAR Hassaine Daouadji, Zidour Mohamed, Tayeb Bensatallah
ID 1362	DWT-Based Imperceptible Watermarking for Copyright Protection

	Sarra Bencella, Ali SEDDIKI, Abdelkrim Ghaz
ID 736	Sedimentological Analysis of the Illizi and Berkine Basin: From Outcrop Studies to Depositional Models Hassina BEROUR, Moussa Sadaoui, Mourad Medaouri
ID 753	Backstepping controllers for Trajectory Tracking of Mobile Robot Wheeled labane chrif, Mekkaoui Mohamed, Meddahi Youssef
ID 1173	Modeling Study on Tunnel Excavation Using a Roadheader Machine – Case Study: Rass El Ma – Azzaba Railway Tunnel, Algeria. Nacereddine Fellouh, N.El Islam Ketfi, Abdellah
ID 1187	Optimisation de la gestion des moteurs électriques par le contrôleur intelligent UMC100.3 GOURI Ammar, Zidane achrefeddine
ID 1169	One-dimensional modeling of a low-pressure radiofrequency discharge Habel Elhadj
ID 979	The influence of geometry on the temperature of a synchronous toothed-belt transmission Abdelhak HAROUN, Sidi Mohammed Merghache, Amine Hamdi, Mihoub MEDKOUR
ID 1629	: Analysis of defects in enameled sheets from national industrial production Fatiha Keraghel, Samir Tebbane
ID 1600	Optimization of medium voltage composite insulator profiles using Finite Element Method and Artificial Neural Networks Mhamed MARICH, El hadj Habel
ID 1587	Prediction of the Force Absorbed by a Multi-Crack GFRP Composite Plate Using an Optimization Algorithm FAHEM Nouredine, OULAD BRAHIM Abdelmoumin, SOUCI Abderrahmene, ZARA Abdeldjebar, ARIBI Chouaib
ID 622	Numerical Investigation of Vertical Deformation in L-Shaped Reinforced Concrete Elements ghoul sahraoui, Ali Ahmed-Chaouch
ID 405	The Equivalence Electrical Performance between the Plane - Plane and Multiple rods-rods configurations of a Uniform Polluted Glass Insulator samia satta, Abdelhafid Bayadi
ID 972	Robust Fault-Tolerant Control of Power Inverters under Actuator Fault Conditions Abderrahim TOUIL, Fatima BABAA, Nacer MERABET, Kenza BOUARROUDJ
ID 973	A Signal-Based Approach to Early Detection of Broken Rotor Bar Faults in Induction Motors Using Hilbert and Fourier Transforms Nacer MERABET, Fatima BABAA, Abderrahim TOUIL, Kenza BOUARROUDJ
ID 975	Data-Driven Smart Diagnosis of Broken Rotor Bar Faults in Induction Motors Using the Random Forest Method Kenza BOUARROUDJ, Fatima BABAA, Abderrahim TOUIL, Nacer MERABET
ID 904	Integrated Material Solutions for Reducing Heat Transfer and Energy Demand in Building Envelopes Zahra Assala ZEHOUBANI, Taieb NEHARI, Mohammed HADJADJ
ID 1282	Analyse de l'impact de certains paramètres structuraux sur la réponse sismique d'une structure auto-stables en béton armé Ines Aouf, Mohammed Berradia, Sarra Sendjasni
ID 1544	Simulation and Optimization of Hybrid Photovoltaic Systems using HOMER Software: Influence of Materials and Climatic Conditions Hocine MAAMMEUR, Djamel Belatrache
ID 1370	Estimation Study of Green Hydrogen Production Utilizing Wind Turbine Systems in Isolated Regions of Algeria Zhour Abada, Hocine Maamneur, Djalel Dib
ID 636	Design and Control of a Single-Phase AC Microgrid with Solar Generation and Battery Storage for Residential Use YOUSFI ABDELKADER, Bot Yuocéf, Mehedi Fayçal, Khelifi Otmane Khelifa
ID 1160	Integrative and Optimization Analysis of a Solar-Wind Energy System Supported by Artificial Intelligence in a Simulated Environment khentout abdelkader, Maamneur Hocine, ABDESSELAM Yassine

ID 796	Integration Renewable Energy Systems with Interconnected Power Systems for Stability Enhancement Using Advanced Control Based on Intelligent Oscillations Dampers System Moussa BAKDI, Rachid TALEB, Asma TOUALBIA, Fayçal MEHEDI, Souaad TAHRAOUI, Madjid MERIEM BENZIANE
ID 714	Zéolite Y à base d'argile naturelle et sa capacité à capturer le dioxyde de carbone par échange de cations bekri Zerrouk, Adel Mokhtar, Rachida Rahmani, Mourad Ouanid, Fatma Chergui, Mohammed HACHEMAOUI, boukoussa bouhdjer
ID 780	Optimal tuning of PI controller using Krill Herd algorithm for wind turbine application Yamina BELGAID, M'hamed HELAIMI, Rachid TALEB, Abdelaziz ZERGLAINE, Hemza SAIDI
ID 1210	Hydrodynamic Analysis of Point Absorber Wave Energy Converters Using Boundary Element Method Samir Miloud Belghoula, Abdessoufi Benhamou, Sylvain Sébastien Guillou
ID 828	Electromechanical study the wind energy conversion system based DFIG and SCIG generators Samir BELLARBI
ID 1301	Design and Experimental Validation of a Solar Chimney Power Plant Prototype youcef benettayeb, Abderrahmane Benbouali, Toufik Tahri, benali alouache
ID 1672	Advanced fuzzy logic-based power management for hybrid electric vehicles integrating fuel cells and supercapacitors under dynamic driving conditions berroudji ahmed, larbaoui ahmed, tabti khatir, alouache benali
ID 965	Advanced Frequency Regulation in Hybrid Power Networks with HVDC-Based Energy Exchange Houari BOUAMEUR, Tayeb ALLAOUI, Aicha AISSA BOKHTACHE, Rachid TALEB
ID 1394	Design of a Low-Cost Microcontroller-Based Narrowband PLC System with Scalable Node Architecture hamid chatbi, Sid Ahmed TADJER, Fathia CHEKIRE
ID 1444	Influence of Environmental Conditions on Bio-Inspired Wind Farm Optimization: A Comparative Study of GA and AVOA Wahiba El Mestari, Nawal Cheggaga
ID 525	Offshore Wind Resource Assessment in Jijel, Algeria: Toward a Sustainable Mediterranean Energy Future Salah MARIH, Rabeh CHEHDA, Mohamed Boudiaf KOURA
ID 1024	Improved performance of the multi-phase permanent magnet synchronous motor using synergetic control strategy Fayçal Mehedi, Ismail Bouyakoub, Abdelkader Yousfi, Rachid Taleb, Zakaria Reguieg, Lemya Djafer
ID 1572	An Optimization Framework for Energy and Battery Management Systems Based on Genetic Algorithms alouache benali, Helaimi M'hamed, Allouache hadj, A. Gabbarb Hossam A. Gabbarb, BELMADANI Bachir, benettayeb Youcef benettayeb
ID 1185	Modeling and Advanced Control of a permanent magnet-based wind energy system using a multilevel converter for enhanced power quality injection Ihsen Hamzaoui, Farid Bouchafaa, Fatima Zohra Baouche, Cherifa KARA MOSTEFA KHELIL
ID 1114	Intelligent Real-Time Fault Diagnosis and Adaptive Optimization of a Multi-Source PV-Wind System Using IoT and AI Algorithms meziane kaci, zakaria layate, slim rouabah, hakim ait said, hamou nouri, hassan ezziane
ID 555	Mapping and Assessment of Wind Energy Potential in Tindouf Using WAsP: A Case Study Salah marih, Mohamed Boudiaf Koura, Rabeh Chehda
ID 1095	High performance speed control of multi-phase induction motor drives using third-order sliding mode strategy and a three-to-five phase matrix converter Fayçal Mehedi, Ismail Bouyakoub, Abdelkader Yousfi, Rachid Taleb, Zakaria Reguieg, Youcef Bot
ID 383	Synthesis of PPy/ZnO Nanocomposites for High-Performance Supercapacitors. Mohamed Cherif MAKHLOUFI, Billel Zahaf, Amine Didaoui
ID 1615	Thermal Effects on the Efficiency of InAs/GaAs Quantum Well Solar Cells

	Soufyane TALEB, Ibrahim LAGRAA, Mohamed MOUMNA, Moustafa TADJINE
ID 1242	Practical Implementation of an Efficient Control of Standalone Induction Generator for Wind Energy Systems Oussama Abdessemad, Ahmed Lokmane Nemmour, Lamri Louze
ID 819	Application of the "DISRUPT AND OBSERVE" method for maximum power point tracking of a photovoltaic system Mohamed ALI MOUSSA, Lakhdar CHOUHA
ID 506	Enhancing the electrical storage system's efficiency in a solar generator Mandi Benaissa
ID 1221	Hydrodynamic Analysis of Oscillating Water Column Devices for Marine Energy Harvesting abdessoufi benhamou, Samir Miloud Belghoula, Sylvain Sébastien Guillou
ID 1763	Preview of Next-Generation Carbon-Free Energy Storage and Sustainable Power Generation Based on Iron Powder Technology Boukhelef Mohamed, Senouci Mohammed, Habib Merouane, Alliche Mounir
ID 1274	Effect of iron quantities on PECVD Prepared ZnO Thin Films Physical Properties: Experiments Associated with DFT Calculations Chaimaa Zaoui, Djellal Oussama, Haireche sofiane
ID 764	Improving the energy performance of a school using straw and recycled plastic MERYEM CHAOU, bensaad bouraaasia
ID 477	Conception et simulation de la cellule solaire d'InGaN en utilisant Silvaco et Ogmanano BOCHRA NOR, ABDELHAK BOUSAID, Ihsen Yasser Taleb
ID 1209	Title: Study and simulation of a hybrid PV/ Battery system with a load rahma elhadj
ID 982	General study on economic solutions for the energy transition towards renewable energies Mohammed Ali KOUIDRI
ID 629	"Design and Experimental Analysis of a Small-Scale Solar Chimney Prototype in Tiaret under Saharan Climatic Conditions" LAHMAR Omar
ID 1796	Experimental Characterization of Shear Moduli in a Glass/Epoxy Laminated Composite: Application to Orthotropic Behavior A. Lakhdar.
ID 1797	Evaluation of Mixed-Mode Stress Intensity Factors for Internal Cracks in Functionally Graded Thermal Barrier Coatings Under Thermo-Mechanical Loading Tifour Meriem Hidayet, Abdelkader Boulenouar
ID 1546	Fuzzy sliding mode control of a Doubly Fed Induction Generator (DFIG) based wind turbine in variable speed Allam Mohamed, Adjoudj Redouane, Benkrama Khadidja
ID 739	Machine learning Prediction Model for solar power energy okba rahmani
ID 1399	Étude expérimentale de l'influence des paramètres géométriques et météorologiques sur les performances de cheminée solaire AHMED AFGHOUL, ALI ATTATFA, Toufik TAHRI
ID 584	Experimental Evaluation and Modeling of 85 W Solar Panel for Maximum Power Extraction Alla Eddine TOUBAL MAAMAR, Mourad NAIDJI, Aicha AISSA-BOKHTACHE, Maamar LATROCH, Touhami ABDELOUAHED, Aimad BOUDOUDA
ID 705	Electronic Structure and Magnetic Properties of CuFeS₂: An ab initio DFT/GGA+U calibration study LARBAOUI Kheira, Lakdja Aziz, Bassou Ghaouti
ID 963	DFT Exploration of Novel Direct Band Gap Semiconducting Halide Double Perovskites K₂InAgX₆ (X = Br, Cl) for Solar Cells Application amel marrad, Halima Bouchenafa, Boucif Benichou, youssef saksak, Hanane Benmahdjoub
ID 1837	DC bus regulation of a shunt active power filter by FLC and SMC regulators using multilevel inverters with NPC structure MAAROUF OMAR, ALI MOUSSA MOHAMED, BELARBI WAHID

11:30 – 12:15

Poster Session 5 | Thursday, June 12th, 2025

Hall 2000 | Mechanical Engineering

ID 1322	Predictive Modeling of Surface Chloride Concentration in Marine Concrete Using CatBoost Ali Benzaamia, Mohamed Ghrici, Redouane Rebouh
ID 1299	Évaluation comparative du bio-polymère et du ciment Portland pour l'amélioration écologique de la résistance au cisaillement des sables Hachemi ADDA BERKANE, Abdelnasser BOUKEFFOUSSA EL ROUL, Nouredine DELLA, Mehdi MISSOUM BENZIANE
ID 410	Mechanical Characterization of Recycled and Loaded Materials Boussena Ahmed, Ghazi Abdelkader, Bouchouicha Benattou
ID 424	Etude des vibrations libres et du flambement des poutres fonctionnellement graduées fonctionnel FGM en utilisant une théorie raffinée d'ordre élevé Ahmed BEKHADDA, Mohamed ABDI, Benaissa BOUBABOURI
ID 1740	Effect of vegetable fibers on the workability of alkali-activated mortar based on slag and recycled glass Hamid BENMOUMENE, Mohamed KECHACHNI
ID 1773	Influence des paramètres clés sur le rendement d'un cycle de Linde simulé sous Matlab. FOUKRACH Mohammed
ID 1774	Performance d'un cycle frigorifique à compression de vapeur simulé sous EES FOUKRACH Mohammed
ID 1040	A novel method for reducing slip stress in a composite steel-concrete beam, bonded with an adhesive. Hayet Boumediene, Tahar Hassaine Daouadji, Tayeb Bensatallah, Mohamed Zidour
ID 1415	Effet de la poudre de verre recyclée sur les caractéristiques de compactage des sols expansifs chahera touat, BAHIA LOUAFI
ID 1308	Laboratory investigation on cement-treated sand using UU triaxial tests Fatma Zohra Chamma, Mehdi Missoum Benziane, Abdelhamid Flitti, Nouredine Della
ID 1283	Modélisation numérique des poutres en béton armé renforcées en flexion par matériaux composites Kawthar hamidi, Farid Bouziadi, Bensaid Boulekbache
ID 1067	Efficacité des plaques en matériaux composite le renforcement des poutres en acier Hassaine Daouadji Maya, Hassaine Daouadji Tahar, Bensatallah Tayeb
ID 1226	Valorisation des fibres recyclées dans les bétons autoplaçants Nor El-Houda Maameri, Hamza Bensaci, Said Kenai
ID 1766	Performance Analysis of Gypsum Mortar Partially Substituted with Recycled Gypsum Mohamed amine Ouared, Abdelkader Bougara, Nadjia Kherraz
ID 1093	Simulation Thermique et Structurale du Béton Soumis à un incendie SALEM khalil, LAIB Tariq, BAGHDADI Mohamed, DIMIA Mohamed Salah, BERKANE Fatiha
ID 1290	Data-Driven Prediction of Axial Load-Carrying Capacity in FRP-Confined Concrete Columns Using Machine Learning Approach Sarra SENDJASNI, Mohammed Berradia, Riad Benzaid, Klaus Holschemacher, El hadj Meziane
ID 1039	Analysis and modeling of wooden beams strengthened by carbon fiber reinforced polymer Belkacem Elhocine TOUHAMI, Tayeb BENSATTALAH, Tahar HASSAINE DAOUADJI, Mohamed ZIDOUR
ID 474	Analysis of the rotational moment in a reinforced column-beam system Aouissi Youcef, Kada Abdelhak, Belkacem Lamri, Mus'ab Salameh
ID 522	Étude expérimentale de l'évolution du ressaut hydraulique dans un canal rectangulaire à fond rugueux Abdelouahed Brahimi, Samir KATEB, Mouhamed Amine BRAHIMI
ID 433	Hydraulic Analysis of Drilling Mud Flow Around a PDC Drill Bit Using CFD Simulation

	Abdellah Mekedeme, Samir Benammar
ID 1342	Evaluation of the effect of recycled concrete sand on the properties of ordinary concrete Manel Abdoun, M'hamed Adjoudj, Adem Ait Mohamed Amer, Karim Eziane
ID 1357	Study of the rheological properties of ordinary concrete with quarry waste sand Manel Abdoun, M'hamed Adjoudj, Adem Ait Mohamed Amer, Karim Eziane
ID 712	Effect of Bending Moment Orientation on the Behavior of Column Base Plate Connections Mohammed El Amin Aichouche
ID 1190	Application of Reverse Engineering: Reconstructing a 3D Model of an Impeller Blade Using a Coordinate Measuring Machine (CMM) AIMEUR Nouredine, AMOUR Aissa, LAHMAR Hanine
ID 1188	Hygrothermal Effect on Damaged RC Beams Strengthened with Bio-Inspired Helicoidal-Recursive Composite Plates Rezki Amara, Hassen Ait Atmane, Riadh Bennai, Mokhtar Nebab
ID 1691	NUMERICAL ESTIMATION OF THE EFFECT OF THE THERMAL RESIDUALSTRESSES ON THE PERFORMANCES OF THE BONDED COMPOSITE REPAIR OFMETALLIC AIRCRAFT STRUCTURES Zakaria AMINALLAH
ID 853	Dynamic finite element analysis of interfacial bone-implant stresses Mustapha Amine ARAB, Abdessamed BACHIRI, Nadia KADOURI
ID 1197	Study of the mechanical behavior of a structural steel under the effect of the galvanizing operation mohamed babakhali, abdelkader djabli, souad meftah
ID 1778	Experimental Study of the Effect of the Number of Blades on the Energy Performance of a Savonius Wind kachour adil, rekeiba rofaida, kamla youcef
ID 1779	Numerical simulation of the design impact of a radial agitator on mixing efficiency kamla youcef
ID 1781	Dynamic behavior of Porous Power-Law and Sigmoid Functionally Graded Sandwich Plates Nafissa ZOUATNIA, Latifa OULD LARBI and Lazreg HADJI
ID 1782	Free Vibration Analysis of Functionally Graded Polymer Composite Plates Reinforced with Graphene Nanoplatelets Lazreg HADJI, Nafissa ZOUATNIA, Hassen AIT ATMANE and Latifa OULD LARBI
ID 1783	An Efficient Shear Deformation Beam Theory For Mechanical Behavior of Functionally Graded Beams Based On Neutral Surface Position Latifa OULD LARBI, Nafissa ZOUATNIA and Lazreg HADJI
ID 1784	Porosity Effect on the Fundamental Natural Frequencies of FG Sandwich Beams Guermit Mohamed Bilal CHAMI, Lazreg HADJI , and Amar KAHIL
ID 1785	Design and optimization of tubular composite using stochastic optimization Abdelkader LOUZA , Abdelkader HOCINE , Abdelhakim MAIZIA , Levent AYDIN and Ghania HABBAR
ID 1531	Experimental study of friction stir welding of polymers and its effect on mechanical strength mohamed babakhali, zakaria aminallah, laid aminallah
ID 916	Experimental Investigation of the Influence of Tool Rotational Speed on the Mechanical Properties of Friction Stir Welded AA6082-T6 Butt Joints Bachiri Abdessamed, Arab Mustapha Amine, Kadouri Nadia
ID 1707	Steady-State Heat Conduction in a Half-Space Containing a Penny-Shaped Crack and Subjected to a Circular Heat Source Zakaria Baka, Abdelbasset Gouadria
ID 1508	Non linear vibration of sandwich beams Abdelhak BENAOU

ID 876	Classification and Properties of Fibers Used in Reinforced Concrete fatiha berkane, Mohammed Salah Bouglada, Khalil Salem, tariq laib
ID 619	Etude expérimentale sur le renforcement de sable de Oued Rass (Chlef) par les déchets de briques rouges : effet de diamètre Ayyoub Bettahar, Maria Arab, Ahmed Arab, Yassine Benghalia
ID 660	Numerical Prediction of Damage in Steel Pipe Elbows under Coupled Pressure and Bending Using XFEM Chaaben Arroussi, Mouad Yaichi, Mohammed Amine Khater, Azzedin Belalia
ID 694	L'effet des paramètres de compactage sur un sol argileux stabilisé par la chaux et fibres de polypropylènes : une étude expérimentale Anfal Rihab Cheriet, Alaa Abdelmoumen Driss, Mohamed Ghrici
ID 790	Stability of interfacial gravity–capillary waves in stratified fluids Chaib Meriem, Chikhi Sara, Debiane Mohammed, Allalou Nabil
ID 919	L'effet de l'angle d'impression sur les propriétés mécaniques du PA12 imprimé en 3D KOUIDER DJELLAL, Benallel Farouk Boukhoulda, Kouider Bendine
ID 1258	Investigation of laminar flow characteristics between two parallel plates. Ibtissem DJELLOUL BENCHERIF, Ikram khellafi, Sara youcefi, Zineb Hemmami, Azzedine Hammami
ID 816	Vibration Analysis of Polymer Beams Reinforced with Carbon Nanotubes on a Variable Elastic Foundation Using HDST DJILALI DJEBBOUR Kenza, AIT ATMANE Hassen, BENNAI Raidh, NEBAB Mokhtar
ID 1532	Axisymmetric Torsion of an Elastic Layer with an External Crack Induced by Two Coaxial Rigid Discs Abdelbasset Gouadria, Zakaria Baka
ID 941	Advancing Road Infrastructure Design with BIM: A Multi-Criteria Decision Approach for Flood-Resilient Solutions Hadjar Manal Ikram, Zaoui Mohamed, Bensoula Moahmed
ID 1098	Geometric Modeling of a Piston Compressor Using SolidWorks Odai Medjahdi
ID 1545	Green inhibitor and its mitigation of corrosion using plant extract Khedim Fatima zahra, Amara Mouna, Hadj meliani Mohammed
ID 1733	Étude numérique de l'amélioration du transfert de chaleur dans une marche descendante à l'aide de nanofluides et d'une ailette flexible Fatima-Zohra KHELIF, Mohamed Habib BENDAOUAD, Meriem TOUMI, Faycal BOUZIT
ID 1335	Influence of Doum Fiber Content on the Mechanical Behavior of Sandy Soils MEGROUSSE Mohammed, Zerrouki Amina Mounira, Mahmoudi Youcef, Cherif taiba Abdellah
ID 1761	Robust Adaptive Control of DC/DC Converters for Fuel Cell Power Systems Hicham Mehida
ID 1501	Free vibration behavior angle-ply laminated composite plates SAHLA Meriem
ID 676	Comparison of the effect of marble filler and brick filler on the performance of dune sand concrete koudri Messaoud, Bendjillali Khadra, Bouziani Tayeb
ID 1697	Enhanced Heat Transfer Using Asteroid-Shaped Tubes in Wavy Bundle Configurations: A Numerical Study mohammed FOUAL, youcef becheffer
ID 1106	Heat Transfer Enhancement Using Hypotrochoid Cylinders Mohammed Foual
ID 1515	Influence of Silt Fractions on the Undrained Behavior of Chlef Sandy Soil Seyyid-ahmed ZAIRI, Mehdi MISSOUM BENZIANE, Ahmed ARAB
ID 1752	Semi analytical-based simulation to test the validity of a piping erosion experiments in a permeameter compaction apparatus Nourelhouda Slimani, Mohammed Amine Boukhemacha
ID 1251	Numerical Thermal Analysis of Cold-Formed Steel Sections Sarrah Taibi, Kada Abdelhak, Lamri Belkacem, hassoune mohammed

ID 671	Valorization of graphite waste from drilling in the epoxy matrix HIJAZ Tarik Khaled, ARIBI Chouaib, KENNOUCHE Salim
ID 1347	Experimental characterization of stabilized earth bricks: Correlation between type of binder and physical properties Sabah Touahria
ID 606	Conception de matériaux de coupe en alliages durs par insertion Walid BENDJEDDOU, Salim KADRI, Abdelaziz Mahmoud Bouchelaghem
ID 1403	Modelling the Thermal Performance of Steel Bolted Braced Connections in Fire Scenarios Ouissam Yessad, Abdelhak Kada, Balekacem Lamri
ID 1860	Intelligence Controller Design for Civil Engineering Structural Control Leyla Fali, Khaled Zizouni , Brahim Mebari and Mohamed Djermane
ID 1861	Impact de la Déformation par Cisaillement sur les Caractéristiques Post-Flambage des Poutres en Matériaux Fonctionnellement Gradués. Ali Abbache, Rachid Rabehi and Hichem Berkak
ID 1862	Evaluation of the Integration of Natural Fibers in the Design of a Sandwich Pipeline under Cyclic Internal Pressure Ghania HABBAR, Abdelkader HOCINE, Abd Elhamid GHOUAOULA, Abdelkader LOUZA, Abdelhakim MAIZIA

10:00– 14:00		Online Session wednesday, April 11 th , 2025	
Room 1 Nanomaterials meet.google.com/tjx-kzpt-dqi			
Online Session Chairs:			
ID 370	Enhancement in structural, and optical properties of sprayed In2O3 thin films using ultrasonic spray. Ranida Bourhefir, Hanane Saidi, abdellah attaf, okba ben khetta, amina youcef, rania toumi, nour elhouda djheiche		
ID 375	Solvothermal Synthesis and Structural Characterization of Pure and Cobalt-Doped Fe3O4 Nanoparticles Esma Aliouat, Nada Belmokhi, Besma Mihoubi, Nahman Boukheit		
ID 406	Influence of the pore Wall polarity in structure and dynamic of water in mesoporous silica nadia FEKKAR		
ID 412	تأثير حجم مسحوق Al2O3 على خصائص الطلاءات المركبة من Ni-TiO2-Al2O3 المصنعة بالترسيب الكهربائي بسمة بن حورية		
ID 420	Effect of Tin on the Properties of Gallium Oxide Thin Films Prepared via the Sol-Gel Method. Fatma Amraoui, Nouredine Sengouga		
ID 429	Transparent β-Ga2O3 Thin Films Deposited by Spin-Coating lobna messeddek, Nouredine Sengouga, Louiza Arab, Fatma Amraoui		
ID 442	Optical Properties and Biosensing Applications of Core@Shell Nanoparticles: New Analytical Model Adil Bouhadiche		
ID 453	A highly sensitive voltametric detection of uric acid using CoFe2O4/glassy carbon modified electrode . DJERFA MOUSSA, Azizi yasser		
ID 496	Tailoring the Dynamic Magnetic Response of Surface-Engineered Magnetite Nanoparticles for Hyperthermia AYACHI Ahmed Abdelhakim, HAFIRASSOU Anissa Zohra		
ID 504	Study of Adsorption Behavior of cationic Dye on metallic-Modified Activated Carbon: Kinetic		

	and Thermodynamic Approaches termoul mourad, Chemrak Mohammed Amin, Attouti Salima, Benderdouche Nouredine, Bestani Benaouda
ID 516	Characterization of Chrome Doping Effects in Sol-Gel Synthesized Alumina Powder Hamza HARA, Rassim YOUNES, Mikhael ALYMOV, Mohand Amokrane BRADAI
ID 540	Green synthesis of silver nanoparticles using mixed plant extract: characterization, antioxidant, antimicrobial and effect on virulence factors of Candida sid ali Zaidi, naima saidene, Radia Kadi, Taous Kaddour, Kenza Moulaoui
ID 561	COPPER AND PALLADIUM LOADED POLYOL DENDRIMER-CLAY AS POTENTIAL ADSORBENTS FOR CO₂ AND H₂ Rachida OUARGLI SAKER
ID 614	Advanced Evaluation of Inhibition Zones in Co-Doped SiO₂ Nanostructures for Antimicrobial Applications Nadia Hadjila, Faiza Hadji, Asma Sadaoui
ID 640	Green Synthesis and Characterization of Pure CuO Nanoparticles Using a Blend of Agricultural Wastes Aya Bouaziz, Naima Gherbi
ID 667	Auto combustion synthesis of Alumina nanoparticules (alpha & gama) Billel Zahaf, Mohamed Cherif Makhloufi, Sara Bendas
ID 669	Temperature Dependence and Performance Characteristics of SiPMs Photodetectors. Faiza HADJI, Ali BENOUDAH, Bouzid BOUSSAHA
ID 692	Investigation of the anti-corrosion properties of an electrochemically deposited nickel coating using electrochemical techniques combining X-ray spectroscopy (XPS) and atomic force microscopy (AFM) in a saline environment Hanene RAMDANE, Nouredine Benaïoun, Nouredine Hakiki, Sadek Kadari, SidAhmed Benseghier, Nasreddine Moulayat
ID 711	Nanoengineering Lignin for Sustainable Material Innovation Zineb Laali, Rihab Boushaba, Khatima Kaabeche-Djerafi
ID 802	Electrical and Optical Simulation of OLED with Fluorescent Dopant Samira Mehdi
ID 482	Optoelectronics properties of the semiconductor ZnGeAs₂ applied to photovoltaic cells kerroum djamel eddine, Djebbour Ben ali, Bouafia Hamza, Hiadi Said
ID 378	L'anodisation électrochimique est utilisée pour étudier et développer des nanotubes de TiO₂. Nihad Nouadri
ID 379	Synthesis, Characterization, and Applications of Nanomaterials in Adsorption and Catalysis Dehbi Atallah, Benchikh Imene, Dif Dif Mustapha Mahmoud
ID 392	Formulation and optimization of Paclitaxel Loaded N-octyl, O-phosphate Chitosan Polymeric Micelles fatima zohra badaoui
ID 400	Nanomaterials: Green Synthesis and Characterization of Zinc Oxide Nanoparticles Using Green Tea Extract BENCHIKH Imen, DEHBI Atallah
ID 415	Biomimetic Fluorapatite from Eggshell Waste: Toward Bone Regeneration Applications Mouna BENBOUDA
ID 426	Effects of Drying Temperature on Structural and Optical Properties of β-Ga₂O₃ Thin Films. lobna messeddek, Louiza Arab, Nouredine Sengouga, Fatma Amraoui, rima cherroun
ID 436	Impact of Dual doping on the structural and electronic properties of Gahnite nanoparticles Nada Belmokhi, Esma Aliouat, Besma Mihoubi, Ahcene Karaali
ID 447	mechanical performance and durability analysis of sand concrete modified with nano-silica Hachem Chaib, Ali Kechired
ID 467	Ambient-Temperature Reduction of Cu(II) Ions Using Sodium Ascorbate: Formation, Characterization physicochemical, and Potential Application of Eco-Friendly Copper Particles in Water Treatment Meriem Hamidani, Souad Djerad

ID 473	Phase Transformation Kinetics in Ni/Si(100) Thin Films Messaouda CHAIBRABI, GAMRA TELLOUCHE
ID 484	Numerical Investigation of a Square Tube Heat Exchanger Cooling System Using Hybrid Nanofluids Belkacem AIT TALEB, Adel SAHI, Djamel SADAOU
ID 499	Élaboration et caractérisation d'un nanocomposite hybride: oxyde de zinc/poly orthotoluidine Mekkaoui Houria, Bekhemmas Kheira
ID 505	ELABORATION DES BIOCOMPOSITES RENFORCES PAR DES FIBRES NATURELLES Kheira Bekhemmas, Houria Mekkaoui
ID 604	Synthesis and Characterization of Novel Biocomposite Hydrogel Polymers with Enhanced Thermal stability and Delayed Biodegradability Properties meriem baziz, samy remita, kameche mostefa
ID 605	The Effect of Precursor sources on the Properties of CuO Thin Films Deposited by Spray Pneumatic method BEN MESSAOUO Ouarda, OUAHAB Abdelouahab
ID 607	The Effect of Precursor sources on the Properties of CuO Thin Films Deposited by Spray Pneumatic method BEN MESSAOUO Ouarda, OUAHAB Abdelouahab
ID 617	Python-assisted analysis of the properties of spin-coated transparent Sn and Al-doped ZnO thin films Amel Bakhouch, Sara Boutout
ID 628	Characterization of Cu ₂ SnSe ₃ thin films for photovoltaic applications Hadjer REKKACHE
ID 654	Green synthesis of magnesium oxide nanomaterial using plant extract, optimization of synthesis operating conditions Bouchra BOUNAB, Nacéra ZABAT, Imene ZITOUNI
ID 659	Thermogravimetric and specific surface area characterization of synthesized graphene oxide Sabrina Bouriche, Mourad Makhoulf, Mohamed Kadari, Zoubir Benmaamar
ID 679	Synthèse thermique et caractérisation de deux nouveaux nanomatériaux carbonés, le tGO oxydé et le trGO réduit kawtar BENTEDLAOUTI
ID 710	Green-Synthesized Silver Nanoparticles: Synthesis, Advanced Characterization, and Functional Attributes Sarrah Sebt, Badra Barhouchi
ID 731	Yeasts as sustainable agents for nanoparticles synthesis: Opportunities in green nanotechnology. Kaouthar Houiti, Smail Mehda, Pietro Buzzini
ID 735	Contribution à l'analyse du flambement des nano-poutres reposant sur une fondation élastique avec des conditions aux limites arbitraires Aicha Remil, Ahmed Bouamoud, Meriem Sahla, Mohamed-Ouejdi Belarbi, Mohammed Sid Ahmed Houari, Ahmed Amine Daikh
ID 759	Free vibration of a porous (Polymer-carbon nanotube) beam resting on Kerr elastic foundation Hacini Khedidja, Seloune Belkasem, Zidour Mohamed, semmah abdelwahed, Bousahla Abdelmoumen Anis
ID 782	CHARACTERIZATION OF OPTICAL AND STRUCTURAL PROPERTIES OF SPRAYED PURE AND Sm-DOPED NiO THIN FILMS Hadil Kaibech
ID 820	Biosourced titanium dioxide nanomaterials for sustainable wastewater treatment processes Imene Zitouni, Bouchra Bounab, nacera Zabat
ID 821	Impact des nanoparticules de dioxyde de titane (TiO ₂) sur les propriétés structurales des nanocomposites à base de LDPE DERBIL SAMIA
ID 826	Development of Keratin Biocomposite Films Incorporating Silver Nanoparticles for Humidity Sensing.

	hayat Hammouche
ID 829	Nanocomposites of 2Aminophenyl disulfide with Aniline using Cr ₂ O ₃ : synthesis, characterization and electrochemical studies sarah benyakhou
ID 830	Enhanced Cancer Cells Sensor with Symmetrical 1D Photonic Crystal Rami Zegadi, , Mohamed Lamine Bouknia, Yamina Tighilt, Sarra Khacha, Nor-elhouda Mehenni, Djamel Sayad, CHAMESEDDINE ZEBIRI
ID 864	sol-gel synthesis of Bi ₄ O ₇ -Bi ₂ O ₃ nanoparticles wissam bouchal, djani faïçal, chaker laiadi, djamel eddine mazouzi
ID 874	Free vibration of multi-directional functionally graded metal foam cylindrical nanoshells NADJI Loubna, DAIKH Ahmed Amine, DRAI Ahmed
ID 879	XRD Analysis of Zn Doped CuO Nanoparticles for Photocatalytic Applications ABBAS FOUZIA, Attaf Sonia, Zaibet Asma
ID 892	Development and characterization of a PVA/CMC/starch nanocomposite film doped with ZnO nanoparticles, environmental application Hadjer ADDOU, radja MEGHERBI, Mohamed KARMAOUI, Fadhila BOUHELLA
ID 912	Ab initio study of GdCo ₅ Nanomaterials structural and electronic properties djabri amina, Chemam Fayçal
ID 922	Analyse vibratoire un rotor rigide supporte par un amortisseur hydrostatique avec lubrification magnetorheologique.Belgacem Souad*1 Belgacem Souad
ID 927	Effect of Pore Size in Porous Silicon on the Efficiency of Solar Cells Samira OUSSIDHOUM, Hand OUELMOKHTAR, Saliha RABEHI, Zaina AITCHEKDHDH
ID 937	Synthèse, Caractérisation et Applications des Nanobiomatériaux dans le Domaine Agroalimentaire : Une Revue Complète Mohamed El Khallil BOUZID, ZEMMOURI Hassiba, BOUDERDARA Nabila
ID 940	Title: djamel eddine semsoun, mohamed sadoun
ID 959	nano-materials Mahfoud Berkani, Berkani Mahfoud
ID 960	Study of the development of ZnO nanomaterials used via sol-gel methods mounir rouabah, Abdelghani Khaldi, Khalladi Mouhamed Rida, Ziani Issam, Bouras Loubna, Grine Madani
ID 1830	Optimizing PV Energy in Photovoltaic Systems Integrated with Lithium-Ion Battery Storage Ben Si Ali Nadia
ID 1776	Assessment of Various Performances of Concrete Incorporatin Ground Dune Sand as a Replacement Material & quot LADJEL Mohamed
ID 1838	Effect of suface mechanical attrition treatment (SMAT) on the thermomechanical behavior of NiTi Shape Memory alloy Assia gasmi
ID 1839	Engineering propertiesof soils and rocks for the tagharist dam project, yabous (Khenchela Province) Haythem Dinar
ID 1777	X-ray diffraction line profile analwsis of Al-Cu thin films. S. Lallouche
ID 1780	Low dimensional behavior of normal and anomalous densities for homogeneous Bose gases at finite temperature Mehedi atika
ID 1811	Elastic Modeling of a Nanobeam Ould youcef Djamel
1807	Green Routes to ZnO Nanoparticles: Toward Sustainable Photocatalysis <i>Nesrine AMARI^a, Manel ICHRA^a, Nadia GUETTAÏ^a, Hafsa BOURAY^a</i>
ID 1798	Torsional Impact on Penny-Shaped Crack in Half-Space Elastic Material

	Loukmane Zeddami, Abdelkader Kirad and Fateh Madani
ID 981	sol-gel synthesis and characterization of iron-doped zinc oxide (ZnO-Fe) nanopowders SALIHA RABEHI
ID 988	Synthèse, et Activité Antibactérienne des 1,3,4-oxadiazole dérivés d'hydrazide d'acide salicylique. Khaled Briki, Mouna Souad Abbassi, Talal Lahreche, Mokhtar Boualem Lahrech, Adil Ali Othman, Ahmed Mohamed Elissawy, Abdel Nasser B. Singab
ID 990	Synthèse 1,3,4-oxadiazole dérivés d'acide benzoïque: Caractérisation et activité antioxydante. Mouna souad Abbassi, Khaled Briki, Talal Lahreche, Mokhtar Boualem Lahrech, Adil Ali Othman, Ahmed Mohamed Elissawy, Abdel Nasser Badawi Singab
ID 993	structural and physical properties of Al _{1-x} Mox thin films grown by magnetron sputtering: influence of thermal annealing asma mosbah
ID 999	Ball Milling Development of an Fe-B-P Ternary Alloy SABAH BAARA, Locif Redouani
ID 1003	The impact of substrate temperature on CO ₃ O ₄ thin-film structural characteristics. Bali Khadidja, BEGGAS Azzeddine, Labbi, Labbi Asma, Mammi Mounira
ID 1034	Enhancement of electrical conductivity of polymer nanocomposites using graphene sheets Amina Midoun
ID 1071	Natural Silica Utilization for Silicon Production in Photovoltaic Energy Systems: An Experimental Approach ASMAA ZBOUDJ, SAAD Hamzaoui, MOHAMED adnane
ID 1096	Nitinol for Biomedical Use: Structure and Electrochemical Behavior Nabila Bouchareb, Mamoun Fellah, Naouel Hezil, Imen Rim
ID 1101	Enhanced Thermal, Optical, and Antibacterial Properties of Bio-TiO ₂ /PEG/PLA Nanocomposites Tassadit Benkacem, Soumia Guerziz, salim hammani
ID 1163	The effect of Mg on the structural and optical properties of Zn _{1-x} MgxO for Ultraviolet Photodetector Applications fatima zohra aouacheria, Azzeddine Telia
ID 1172	Impact of Nanostructuring on the Magnetocaloric Behavior of NiMnSn-Based Heusler Alloys Lahcene Ghouari, Abdnnour El Mohri, Karima Dadda
ID 1192	Adsorption kinetic of methylene blue using nanocomposite guettai hakima, ROUANE Abderrahmane, sebti houari, Sebba Fatima Zohra
ID 1206	Interface Contributions to the Rashba Effect in an Asymmetric GaAs/AlGaAs Double Quantum Well Loubna Melaab, Saadi Lamari
ID 1222	Elaboration de Carbon Quantum Dots pour Applications Photovoltaïques : optimisation et caractérisation. LOUBNA Amri
ID 1224	Optimisation de l'Encapsulant des Modules Photovoltaïques par Analyse Enthalpique Différentielle. FAIZ Ilhem
ID 1246	Structural Evolution and Magnetic Behavior of Mechanically Alloyed FeS ₂ Nanocrystalline Powders Naouam BOUDINAR, Nawel NEDJAH, Abdelmalik DJEKOUN
ID 1255	Synthesis and Characterization of CuO/TiO ₂ Thin Films Meriem Boudiar, faouzi hanini
ID 1269	Synthesis, characterization and photocatalytic application of co-doped and non-doped CaTiO ₃ nanoparticles by sol-gel method. FILALI Hichem, BOUHROUM Rafika, BELMOKHI Nada
ID 1286	Etude et synthèse des films de Cu ₂ NiSnS ₄ pour les applications photocatalytiques MEDINA SOUAD, Nezzari Asma, Nebatti Abdelkader, Amrani Bouhaloune, Driss-khodja kouider
ID 1306	Effect of Zn-doped CuO thin films on structural, and optical properties

	BENOTMANE Khouloud
ID 1363	Characterization of biomaterial based plasticized GGM films Nacera Benouadah, Andrey V. Pranovich, Fetta Aissat
ID 1379	Valorization of Algerian dolomite Chafia Bouchekrit, Mustapha Kolli, Mahmut Altiner
ID 1384	New Rare Earth mixed oxides Perovskite type for surface and Water treatment Mohamed Anis SILAKHAL, Khadoudj GUESSOUM
ID 1388	Electrochemical properties of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ for solide oxide fuel celles (SOFC) Ranya BOUFENCHOUCHE, Yazid BOUDJADJA, Meriem MEKIMAH
ID 1410	Controlled Formation of Nanostructured Ni-Co-Mo Alloys via Mechanical Alloying: A Structural Insight Hadjira Rafai, Billel Smili
ID 1427	Effect of doping by Y^{3+} and Al^{3+} on structural properties of $\text{Ce}_{0.85}\text{Y}_{0.15}\text{Al}_x\text{O}_{2-\delta}$ electrolyte material for SOFC Meriem Mekimah, Abdelmalek Saoudel, Ranya Boufenchouche
ID 1526	Green Synthesis of $\alpha\text{-Fe}_2\text{O}_3$ Nanoparticles for Efficient Removal of Heavy Metals from Petrochemical Wastewater Abderrhmane Bouafia, Bachir Gherbi, Henda Daoudi, Souhaila Meneceur
ID 1534	Eco-Friendly CuO Nanoparticles for Effective Heavy Metal and Hydrocarbon Removal from Petrochemical Wastewater Bachir Gherbi, Abderrhmane Bouafia, Souhaila Meneceur
ID 1536	Electrochemical properties of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ for solide oxide fuel celles (SOFC) Ranya BOUFENCHOUCHE, yazid BOUDJADJA, Meriem MEKIMAH
ID 1551	Eco-Friendly Synthesis and Multifunctional Properties of Mn-Doped NiO Nanoparticles for Magneto-Optoelectronic Applications Abdelmalik ZEMIECHE
ID 1570	Ultrasound-Assisted Synthesis and Characterization of Nickel Hydroxide Nanomaterials Ghania DEKKICHE, Abdelkader BENABDELLAH, Nouredine HARID
ID 1619	Impact of Zinc Oxide Nanoparticles on Mineral Oil Impedance in Power Transformers: A Pre- and Post-Enhancement Analysis ABDERRACHID BERRAH, abderrahime reffas, Hocine MOULAI, Abderazak BENNIA, hicham talhaoui, makhlofouia AMARA
ID 1645	Effect of Deposition Cycle Number on the Photocatalytic Performance of ZnO Thin films Abla BORDJI, Faïçal Bensouici, Selwa KEBAILI
ID 1658	Effect of Salt Precursors on the Optical and Structural Characteristics of Copper Oxide Synthesized via the Sol-Gel Method Roumaïssa Malim
ID 1659	Temperature-Dependent Phase Evolution and Optical Properties of Al_2O_3- and In_2O_3-Doped ZnO Nanocomposites: Crystallization Inhibition versus Spinel Formation AICHA AYADI, FÉRIAL BENMAAMAR, LYES MAIFI
ID 1665	Numerical study to improve the performance of InGaN Single Junction Solar Cells Amine Hadjouni, Akkal Boudali, Arslane Hatem. Kacha, Zineb Benamara, Mekki Abdelkader Benamara
ID 1712	Title hamza bouakraz
ID 1759	Substrate Heating Temperature effect on Microstructural and Photocatalytic Ceria Thin Films Synthetized by Spray Pyrolysis Method Sabrina IAICHE, Soumia TOUAM

10:00– 14:00		Online Session wednesday, April 11 th , 2025	
Room 2 Materials and Environment meet.google.com/gyb-exic-qyy			
Online Session Chairs:			
ID 371	Use Of An Eco-Friendly Biosorbent For The Treatment Of Water Polluted By Methylrosaniline Chloride: Experimentation And Modelling Imane KEZRANE, Toufik CHAABANE		
ID 384	Préparation de charbon actif a la different concentrations de l'acide phosphorique SERAA Hicham, BELKHIRI Daouia		
ID 386	Enhancement Properties of Poly (3-Hydroxybutyrate-Co-3 Hydroxyvalerate) (PHBV)/Polylactide (PLA) Blends and Composites Brahim REMILA, Idris ZEMBOUAI, Lynda ZAIDI, Kattia YALAOUI, Mustapha KACI, Antoine KERVOELEN, Stéphane BRUZAUD		
ID 396	Effective uptake of Evans blue in aqueous solution using layered double hydroxide and its calcined material. Hassiba BESSAHA, Kheira EL AKEB, Mohamed BOURAADA		
ID 408	Valorization of a natural clay for the elimination of an organic pollutant from pesticides: Study of adsorption performance hadjer bousemat, Samira Ziane-Hezil, Halima Delali		
ID 409	Eco-Friendly Inhibition of Carbon Steel Corrosion by Plant Leaf Extracts in 1 M Hydrochloric Acid: Experimental Validation Lynda Abdelli, Mlaika Nouadji, Saida Marmi		
ID 417	Propolis as a Multifunctional Bio-Inhibitor: Food Preservation, Metal Protection, and Environmental Care Amel Serhane, Hakim Bensabra		
ID 421	Evaluating reuse of cement kiln dust as coagulant for wastewater treatment nadia ramdani		
ID 451	Development of environmentally-friendly materials DAOUDI CHAHRAZED		
ID 459	Extraction and Characterization of a Marine-Derived Polysaccharide and Evaluation of Its Antibacterial Activity. Radhia Elong, Mahmoud Belalia, Louiza Belkacemi		
ID 472	Green extraction and process optimization for the recovery of bioactive phenolics from olive by-products Taous KADDOUR, Nassima CHAHER-BAZIZI, Naima SAIDENE, Lamia HANIFI, Nabil DRIS, Lydia KAROU, Rdia KADI, Atia AMINA, Mostapha Bachir Bey		
ID 485	Experimental study of the physical properties of Stabilized Earth Blocks (SEB) MOULAY ALI Abderrahmane, IDDER Abdelghani, FRIH Ahmed, BOUTADARA Youcef, BASSOUD Abdelkader, KHELAFI Hamid		
ID 521	Evaluation of the Thermal Performance of a Sandwich Panel Incorporating a Bio-Based Insulation Material hamza zitouni, Amel boudjabi, lila remache		
ID 554	STUDY OF THE ADSORPTION OF ORGANIC DYES ON pH-SENSITIVE HYDROGELS BASED ON AGAR-G-POLY-AA-CO-AMPS Salima HOCINE, Mohamed Zighed, Foudil Bounchache, Faiza Aiche, Naima GHEMMIT		
ID 562	Traitement des eaux usées par ozonolyse catalysé par des matériaux mésoporeux et microporeux Rachida OUARGLI SAKER		
ID 624	Automated inspection of steel defects using cloud-based deep learning model BENAZZOUEZ Younes		
ID 627	New use for organohalloysite for ciprofloxacin removal Amine AMAR		
ID 681	Geometric Alterations in Cu ₂ ZnGeSn _{1-x} S ₄ Due to Germanium Incorporation Mohamed Issam ZIANE, Hamza BENNACER, Moufdi HADJAB		
ID 697	Etude de phénomène d'adsorption de l'acide Orange 7 (AO7) sur le marc de raisin activé par H ₃ PO ₄ Sarrah BOURAHLA, Hanane BELAYACHI, Kawther Nesrine BENKHEMKHEM, Abir BENHADDA, Fadela NEMCHI, Mostefa BELHAKEM		

ID 698	Effect of cathodic materials on the degradation of organic pollutants on the efficiency of photo Electro Fenton processes Fadoua Kerrouche, Salaheddine Aoudj, Nadjib Drouiche
ID 699	Using gravimetric analysis and thermodynamic calculations to evaluate the efficiency of Asteraceae extract as an environmentally friendly corrosion inhibitor for mild steel in acidic environments. Sirid Remache, Adlene Benyamina, Merzoug Benahmed, Ayache Boultif
ID 729	Effect of the Use of Sewage Sludge Ash on the Compression Strength of Gypsum Sand Ahmed Amine Meraghni, Abderrezak KHELLOU
ID 774	Effect of the Use of Sewage Sludge Ash on the Water Sensitivity of Gypsum Sand Ahmed Amine Meraghni, Abderrezak KHELLOU
ID 801	Modeling hexavalent chromium adsorption using an innovative waste product, sunflower seed shells, in dynamic mode. Amina LAHMAR, Zhour HATTAB
ID 808	Valorization of PVC Waste in Plaster-Based Composite Materials Farid Brahim HOUTI, AhmedSoufiane BENOSMAN, Mohamed MOULI, Omar TALEB, Imen Fatema Zohra MESLI, Baghdad Adel ZOUGHAR
ID 878	Development of an enzymatic electrochemical sensor for the selective detection of catechol in aqueous environments Faiza Bouhebila, Ali Zazoua, Sarra Fafa, Rabiaa Helim, Nouredine Raouafi
ID 883	Effects of Dune Sand on Rutting and Void Content of Bituminous Mixtures SACI Ahmed
ID 888	Machine Learning-Assisted Green Synthesis of CuO Nanoparticles for Enhanced Photocatalytic Activity Reguia BOUDRAA, Hichem Tahraoui, Amira Saidani
ID 930	Démonstration des propriétés mécaniques et optiques de la double pérovskite Pb₂FeMoO₆ en utilisant le premier principe smain bendaoudia
ID 942	Synthesis of an iron-succinate coordination polymer and its visible-solar-light-driven photocatalytic degradation of pharmaceutical pollutant Ferfeche Lynda, Debbache Nadra
ID 1104	Adsorption of dyes by an activated carbon: Characterization study Djihad Telhas, Ines Hamdi, Khadidja Bouzid
ID 1204	CINNAMON EXTRACT AS GREEN CORROSION INHIBITOR FOR MILD STEEL IN 1M HCl Nora BENTERKI, Saida Marmi, Hayat Marmi, Malika Nouadji, Chahinez Siad, Abdelouahad Chala
ID 1314	Étude Comparative de la Photodégradation d'un colorant organique sous Irradiations Solaire et Artificielle en Présence de Couches Minces Élaborées par la Technique Dip Coating Manel Sellam, soulef Azizi, Dikra BOURAS, Mamoun FELLAH
ID 1348	Étude Comparative De l'Influence De La Concentration En Nickel (3 % Et 5 %) Sur Les Propriétés Photocatalytiques Des Oxydes Métalliques Pour La Dégradation Du Bleu De Méthylène Manel Sellam, Dikra Bouras, Mamoun Fellah
ID 1364	The Role of Permeable Pavement as a WSUD Technology in Building Urban Resilience and Mitigating Flood Risks Rania GHRIEB, Meryem BELADJILA, Atef AHRIZ, Aissa GRIB
ID 1386	Vers des hydrogels intelligents pour l'élimination des colorants : étude de l'influence du photo-initiateur sur l'adsorption Manel Safia Chouikhi, Salah Hamri, Zakia HADJOU BELAID, Fayçal DERGAL, Djahida LERARI
ID 1496	Sustainable Compacted Geopolymer Production Using Phosphate Waste Sludge and Natural Clay Maher Issa, Slavka Andrejkovičová, Marwa Zribi, Daniela Řimnáčová, Mónica S. A. Oliveira, Helena Pálková, Fernando Rocha, Samir Baklouti
ID 1675	Removal of 4-Chlorophenol from Aqueous Solutions Using prepared activated Carbon: Adsorption, Isotherms, and DFT Analysis Salima ATTOUTI, Mourad TERMOUL, Benaouda BESTANI, Nouredine Benderdouche
ID 1787	Maghnite-H⁺ catalytic synthesis and characterization of Polyindenes and oxidized derivatives. mohamed marref
ID 1788	Morphology, Structure of polyvinyl chloride (PVC) nanocomposites with optimized thermal and

	optical properties. Materials synthesis and mohamed marref
ID 1789	Production and characterization of composite coatings on steel Mouna Rekaik
ID 1790	Reliability Evaluation of Portal Frames Considering Soil Variability and Interaction A.E. Remadna
ID 1791	Study and simulation of a hybrid PV/ Battery system with a load Elhadj RAHMA
ID 1792	Influence de température de trempe sur les caractéristique d'un matériau à haute résistance : 42CrMo4 D. EMBAREK
ID 1793	Modélisation numérique des poutres en béton armé renforcées en flexion par matériaux composites Hamidi kawther
ID 1794	One-dimensional modeling of a low-pressure radiofrequency discharge Elhadj Habel
ID 1795	Title: Study and simulation of a hybrid PV/ Battery system with a load Elhadj RAHMA
ID 1799	Synthesis of alginate-chitosan polyelectrolyte complex (PEC) biomaterial and their potential applications in biomedical Mohammed DELLALI , Kheira ZANOONE and Marcel POPA
ID 1800	Development of polymeric microparticles loaded with the anti-inflammatory drug delivery Kheira ZANOONE , Mohammed DELLALI , Delia Mihaela Rata, Marcel POPA
ID 1801	Bending Analysis of 3D Softcore Porous Metal Foam Shells Using a Refined High-order Finite Element Approach Soufiane Benounas, Salah Guettala, Akram Khelaifia
ID 372	Epitaxial Formation of Calcite Crystals with use Isonicotinic Acid (INA) As Templates Hassiba TIGHIDET, Kahina AOUDIA, Nabila CHERCHOUR, Naima BRINIS
ID 416	analyse des performances mécaniques des biocomposites à base de fibres végétales Besma Randa BAALI, Abdelkader NOUR
ID 435	TD-DFT design of a new series of TADF compounds for organic LEDs Lamia KARA ZAITRI
ID 437	Mathematical Modeling and Experimental Study of Hg(II) Removal on Bio-Based Activated Carbon Mohammed Amin CHEMRAK, Mokhtar Benzekri Benallou, Halima Dellali, Mohamed Loucif, Benaouda Bestani, Nouredine Benderdouche
ID 449	Investigation of the electrical, optical, and thermoelectric characteristics of vacancy-ordered double perovskite K₂SnBr₆ using DFT method. Afifa Zikem, Hakim Baaziz, Torkia Ghellab, Zoulikha Charifi
ID 456	Domestic Sewage Treatment Of Arid Environments By Filters Planted With Scirpus Youcef sara, Seghairi Nora
ID 471	 Mohamed Yagoub
ID 1723	La dépollution de l'eau contaminée par le vert de malachite par le procédé d'électrocoagulation Nadjah Maghraoui
ID 478	Optimization of bending performance of GFRP waste-based sandwich members with genetic algorithm Abdelmadjid Si Salem, Mohammed Meddour, Souad Ait Taleb
ID 493	Valorization of Chitin-Rich Squid Gladius Waste for Cationic Dye Adsorption: Isotherm Modeling and RSM Optimization Assia Bensedjad, Fouzia Ouazani, Meriem Bouanani
ID 500	OPTIMIZATION OF THE USE RATE OF UNCOOKED CLINKER IN THE CEMENT

	MANUFACTURING IN ALGERIA Batouche Toufik, Tabet Abdelhak, ZERZOUR Oussama, Dinar Haythem, ROUAIGUIA Issam, CHEIKHAOUI Youcef
ID 507	Bending and free vibration analysis of functionally graded plates using five variable refined plate theory Mohammed Yahiaoui, Ali Meftah, Issam Terki Hassaine
ID 514	In Vtro Protein Denaturation Potential of Total Alkaloids Extracted from a Desert Medicinal Plant: Wild Plant of El oued Region Algeria AYACHI Mohammed Laid, MEKHELFI Tarak, REBIAI Abdelkerim
ID 523	Influence of the incorporation of sand from clinker and ceramic waste on the properties of fibre sand concretes. Mohamed Lazhar DANI
ID 527	Environmental Remediation: Biomass for Efficient Heavy Metal Removal ZOUBIDA KOUROULOU, Mahmoud BELALIA, Fouad Fouad MEKHALEF BENHAFSA, Fatima Zohra BELKACEM, Halima DELALI, Asmae BENABBOU
ID 533	Performance of Self-Compacting Concrete Incorporating Marble Powder in Binary and Ternary Mix Designs. Hind SALLAI, Nasr-Eddine Bouhamou
ID 557	APPROACHES TO PROTECTED THE CONCRETE WORKS IN AGRESSIFS AREAS – CASE OF OUARGLAW Wafa BOUAKA, Mohamed Brahim HACHANI, Tahar TIOUA, Mehdi SEGHIRI
ID 598	Ecological footprint of the use of polymers in mining industry. BENDOUMA SABRINA
ID 620	Efficient Purification of Natural Crystalline Silica via Acid Leaching for High-Purity Semiconductor materials and Advanced Applications Saida HAOULI, Samiha MEZRAG
ID 623	The influence of a biocompatible inhibitor on the corrosion processes of copper within an acidic environment. Lahag Lemya, Guettaf Temam elhachemi, Ben.Temam hachemi
ID 630	Thermal Characterization and Fire Resistance Assessment of Natural Algerian Plant Fatima Zohra Krim
ID 631	Development of a Wildland Fuel Propagation Index Fatima Zohra Krim
ID 648	Efficiency of Copper Schiff Base Complexes in the Photodegradation of organic Dyes Soumia BOULEFRED, Fatema Zohra CHIBOUB FELLAH, Abdelghani CHIBOUB FELLAH, Racha Medjda Bouchenak Khelladi, Mohammed Reda Ramdani, adhya-eddine hamitouche, Khaldoun BACHARI
ID 651	Numerical FEM-based Prediction of the Bending and Shear Behavior of Functionally Graded Beams FERHAT Soraya, Aghiles NEKMOUCHE, SI SALEM Abdelmadjid, Souad AIT TALEB
ID 655	Reducing of copper ions by eco-friendly material. Fatiha Boumediene
ID 658	Cream tartar Recovery using précipitation process Samira KHERICI, Djillali BENOUALI, Naedjess NEMMICHE
ID 666	Impact of Unused Cutting Oil Contamination on Soil pH and Electrical Conductivity Asma Boutaghane
ID 670	Interactions hydrophiles et biocomposites multiéchelles Siham BENNACER, Noura HAMOUR, Amel MENICHE
ID 680	Valorisation de déchets végétaux pour l'adsorption du colorant rouge basique Rayane Mehennaoui, Soraya Merzouki, Salah Neghmouche Nacer, Fadila Louafi
ID 691	Extraction liquide-liquide de polluant métallique cuivre (II) par La N, N'-bis(salicylidène) diéthylènetriamine, dite H2saldien dans le mélange chloroforme-eau, en milieux sulfate et chlorure, en absence et en présence des tensioactifs ioniques SDS et CTAB. Souhila BELHOCINE
ID 702	Ingénierie de la bande interdite et amélioration photocatalytique dans les nanostructures CuO dopées au Zn pour les applications de traitement de l'eau Madiha Zerouali, Radouane Daïra, Dikra Bouras, Loumafak Hafaifa, Mamoun Fellah

ID 706	Strategic plan for Recovery and Valorization of Oil Drill Cuttings: Challenges and Innovative Solutions Oualid Lounas, Ammar Malek, ARIBI Chouaib
ID 715	Effectiveness of Reduced Graphene Oxide (RGO) in Removing Nutrient Pollutants from Oued El Kaim Dam Water (Mila, Algeria) Allia Zineb, Boumessenegh Amel, Zebah Ikram
ID 724	Characterization of Phosphate Mine Waste Rocks in the Algerian Phosphate Mining Area (Tébessa, NE Algeria) Imen LAALA, bouzidi nedjima, Hadjer BOUZERIBA
ID 745	Towards an Efficient Desulfurization of Diesel: Optimizing the Extraction Stage in Extractive-Oxidative Process Louiza AICHAOUI, Soraya AIDENE, Boudjema HAMADA
ID 746	A Comparative Study in the effects of Gasoline and Seawater on GFRP Composite Structures Bouhafara Djaber, Menail Younes, Mesrafet Farouk, Chaoui Kamel
ID 750	The effects of Seawater and Distilled water on a Carbon C-Orthocryl composite used in orthopedic prosthesis manufacturing farouk mesrafet, younes menail, djaber bouhafara, kamel chaoui
ID 766	Efficient and Cost-Effective Membranes for the Removal of Organic and Inorganic Contaminants AOUES Amina
ID 769	Heterogeneous Photo-Fenton Degradation of Malachite Green Using Maghemite ($\gamma\text{-Fe}_2\text{O}_3$) under UV Irradiation: Toward Efficient and Sustainable Wastewater Treatment. Nassima Laid, Bouanimba Nour, Ghorab Sarra, Bouafia Safa
ID 770	Evaluation of Heavy Metal Tolerance in Environmental Bacterial Strains Oumeima BOUFERCHA, Nour el Houda Benlahrache, Allaoueddine Boudemagh
ID 781	Effet antibactérien des huiles essentielles de deux plantes Pistacia lentiscus et Lavandula angustifolia sur certaines souches bactériennes multirésistantes AZIZI NASSIMA, ZOUAOUI NASSIM
ID 785	The influence of zinc acetate and zinc chloride precursors on the properties of ZnO and Sr-doped ZnO thin films synthesized using the SILAR method. Nourelhouda Mokrani, Elhachmi GHETTA TEMAM
ID 791	Le comportement magnétique d'une bicouche VI3 Youssef CHEGRANE
ID 799	Environmental Desulfurization and Zinc Recovery from Mining Waste: Case of the Chaabet el Hamra Mine Mohamed chouafa, Hamza Azzouz rached, Tabet Trirat, Toufik Batouche, sofiane alirachedi, salah Arif, saber belheoues
ID 811	Optimization of Brilliant Green Dye Photodegradation Using TiO_2 Under UV Irradiation via Box-Behnken Design Sabrina Oulad Brahim, Khedidja Benouis, Marwa Lamise HAMEL
ID 824	Valorization of a local biosorbent modified by citric acid for the removal of methylene blue from wastewater Othmane Mezzar, CHIFAA AD, Mebrouk Djedid
ID 839	Studies on the structure and properties of Epoxy/arundo donax fiber composites fatiha SIAHMED, lotfi faghi
ID 852	Enhanced Visible-Light Photocatalytic Degradation of Methylene Blue with Copper (II) Oxide: Process Optimization using Box-Behnken Design Marwa Lamise HAMEL, Khedidja Benouis, Sabrina Oulad Brahim
ID 891	Effet de sédiments calcinés sur les propriétés mécaniques du béton renforcé de fibres métalliques Bilel Boulakoud
ID 898	Green synthesis and characterization of natural clay nanoparticles and their use in the removal of azo pollutants. KHENNAOUI Badis, BATAICHE Insaf
ID 905	Adsorptive Removal of Safranin O Dye Using Clay-Al-CTAB/Colloidal Silica/PVA Composite films as Adsorbents: Kinetics and Isotherms studies Leila CHABANE
ID 906	Sustainable Development: Synthesis of Mesoporous Materials from Plant Biomass for Cadmium Adsorption in Polluted Environments

	khelif meriem, bouchenafa saib naima
ID 918	SYNTHESE ET CARACTERISATION DU ZNO/MCM-41 POUR L'ADSORPTION DU BLEU DE METHYLENE Habiba FERDJOUNI, Benamar CHEKNANE, Naima BOUCHENAFSA-SAIB
ID 949	Groundwater Quality in a Semi arid region :Tebessa -Algeria SEDRATI NASSIMA, Benmerabet nadia, Halimi Fahima
ID 955	Rheological Evaluation of Bitumen Modified with Recycled Rubber Powder from End-of-Life Tires Mohamed MELIK, Nabil KEBAILI, Said ABANI
ID 964	Use Of An Eco-Friendly Biosorbent For The Treatment Of Water Polluted By Methylrosaniline Chloride: Experimentation And Modelling Imane KEZRANE, Toufik CHAABANE
ID 966	Green synthesis of Zn/Ag nanoparticles and their high efficiency in degrading organic pollutants and removingMES from industrial wastewater Daoiya zouied, malika khelfaoui
ID 984	Development of Biosourced Adsorbents for Industrial Wastewater Remediation: Towards Sustainable and Eco-Friendly Materials Engineering for Pollutant Removal. Sabrina FARCH
ID 995	Advancing Polypropylene Recycling: Investigating the Stabilizing Effects of Irganox 1076 on Rheological and Mechanical Properties Across Multiple Cycles BENMOHAD Khouloud Feryal, AIT CHERIF Ghania, BOUNEKHEL Mahmoud
ID 997	Producing water from air by cooling with a Peltier-effect electrothermal module, in the Tebessa region (north-east Algeria). Zouita Nadjoua, Mimeche Leila, Alouani Ahmed Amine
ID 1012	Material Selection Paradigms and Environmental Performance Indicators for Cool Pavement Infrastructure: Towards Climate-Adaptive Urban Design Meryem BELADJILA, Rania GHRIEB, Atef Ahriz, Soufiane Fezzai
ID 1021	Influence of Date Palm Fibers on the Shrinkage and Cracking Characteristics of Expansive Clay Afaf Zeroual, Amina MASMOUDI, Ahmed BOUAZIZ, Sadok FEIA, Abdelali DADDA
ID 1063	The destructive and non-destructive testing in the evaluation of concrete strength. RENNANI FATIMA ZAHRA, MAKKANI ABDELKADIR
ID 1065	Dépollution de solutions aqueuses contenant de la rhodamine B à l'aide des feuilles de néflier modifiées samia YARIK, kenza BOUAOUINA, fatiha BARKA-BOUAIFEL, nacer BEZZI
ID 1074	Two-Phase Extraction of Dye Eosine B Imperial Red Using Non Ionic Surfactant Dehydrol LT7 Nacera Ghitri, Hassiba Bouabdesselam, Mostefa Kameche, Zahera Talbi
ID 1091	Etude ab- initio des propriétés structurales, électroniques des composés binaires à base de thallium (TlB, TlN, TlAs et TlP) Abed Zoulikha, Abdelali laid
ID 1100	Integrated Assessment of Treated Carob Leaves and Pods as Sustainable Feed Alternatives in Awassi Sheep Nutrition: Impacts on Performance, Meat Quality, and Environmental Efficiency Prof. Hajer Ammar
ID 1109	Effect of chemical treatment on the tensile properties of alfa fibers. Rami Benamrane, Mohammed Salah Bennouna
ID 1111	Less CO2 , more resistance: when nature reinforces construction Kattia YALAOUI
ID 1136	Role of Lead on Corrosion Resistance of Zn-Pb alloy coating Safa Benamor, Malika Diafi
ID 1144	ADSORPTION OF METHYLENE BLUE BY BITTER ALMOND SHELLS (Prunus amygdalus) MAZOUZ Ouissam, BOURFIS Nassima, FERHOUM Fatiha
ID 1151	PRODUCTION OF AN ACTIVE ADSORBENT FROM THE SHELL OF WILD BITTER ALMOND (Prunus amygdalus) Nassima BOURFIS, MAZOUZ Ouissam, FERHOUM Fatiha, BACHOUICHE Nassima, MAHDI Khadidja, BENSMAIL Souhila, Djaouhra Djamila
ID 1171	The removal of Hexavalent chromium (Cr+6) by adsorption on activated carbon. Sadaoui Loubna, Djebabra sihem, Charif Majda, Akacha Imane
ID 1176	Effect of PEG Molecular Weight on the Structural and Rheological Properties of PMMA/Cellulose Bio-Based Composites

	soumia guerziz, Slim HAMMANI, Sihem DAIKHI
ID 1179	Mechanical properties of superconducting materials Nawal Sayoud
ID 1181	Gamma Radiation Shielding Characteristics of a Novel Polyethylene Terephthalate–Aluminum Oxide Composite TAKOUA CHAREF, Foued zouai
ID 1182	Buckling analysis of hybrid cross-ply composite laminates on elastic foundation using trigonometric plate theory BENSELAMA KHADIDJA
ID 1193	synthesis of hydrogel polymer based on acid polyethylene dimethyl acrilate and spectroscopic study by IR technic and DRX rouane abderrahmane, nemiche nardjesse, GUETTAI hakima, SEBBA fatma zohra
ID 1215	Dual-Function Polyoxometalate for the Efficient Elimination of Eosin Y from Aqueous Solutions BALI AICHA, benadji siham, rabia cherifa
ID 1225	STUDY ON THE VALORIZATION OF A BY-PRODUCT OF THE SUGAR INDUSTRY FOR THE TREATMENT OF WATER LOADED WITH ORTHOPHOSPHATES HIND SAADI, FATIHA ATMANI, ouafia belamane, ZOHRA bensaadi
ID 1250	Fabrication and Additive Manufacturing of PLA-Based Biocomposites Reinforced with Yucca Fibers Featuring Improved Thermal and Dynamic Mechanical Properties. Mohamed Amine Kacem, Moussa Guebailia, Rami Benamrane, Lakhdar Hafsi
ID 1259	Life cycle assessment of cement based on dredged sediments Rachid HADJ SADOK
ID 1278	Catalyseur innovant à base d'oxydes métalliques (Fe/Ti) pour la production d'hydrogène à partir de l'eau. LARBAOUI Salima, HENTIT Hafida, ABDELHADI Bentouami, Amel Boudjemaa
ID 1289	Removal of Congo red dye by adsorption on activated carbon prepared from pomegranate peel. RABIA BESSERNI, Djamal Atia
ID 1311	In vitro antioxidant potential of Retama Sphaerocarpa extract and their antibacterial activity against human pathogens Hanane SEGHIER, Nassima AZIZI, Hayette BOUABIDA
ID 1317	Effect of ceramic waste on UHPC sustainability Lekoui Mohamed Tahar, Hebhouh Houria, Abdelouahed Assia, Berdoudi Said
ID 1319	Study of the Frequency Response of TORP Middle Ear Prostheses Using the Finite Element Method Naili takiyeddine, Sahli Abderahmene, Ghouari lahcen, Benatmane Charaf Eddine
ID 1334	Amélioration de l'Activité Photocatalytique du TiO₂ par Dopage au Nickel (5 %) : Étude de la Dégradation du Bleu de Méthylène en Milieu Aqueux Manel Sellam, Soulef Azizi, dikra Bouras, Mamoun Fellah
ID 1356	Effet du traitement thermique sur l'activité photocatalytique du TiO₂ pour la dégradation d'un colorant synthétique Manel Sellam, Dikra Bouras, Mamoun Fellah
ID 1358	Reduced Graphene Oxide-Polysulfone/ Sulfonated Polysulfone Composite Membrane for Water Purification applications Roquiya LAGHRIB, Abdallah CHERAITIA
ID 1367	The Structural, Mechanical, and Electronic Properties of Ternary bi-alkali Arsenide with honeycomb Structure: A First-Principles Prediction sihem SAIED, Mohamed HALIT, Said MAABED, Mohamed BOUCHNAFA
ID 1380	Degradation of ibuprofen using the Photo-Fenton process EL HANAFI Nawel, GOUSSMI Nawel, AOUGJIT Farid, ZAABAR Aida, KERNANI Redha, LOUNICI Hakim
ID 1397	Removal of Safranin O dye by coagulation-flocculation using a biocoagulant Halima Aissaoui, Sihem Arris, Amina Abbaz
ID 1413	Elimination of pesticides in aqueous solution by clay matrices FEDDAL IMENE, Boukehili israa, Mimanne Goussem
ID 1425	Développement des bétons bas carbone à base de liants ternaires Amina BELAIDI, Mohamed BENMAMMAR, Omar TALEB, Amel FLITTI, Riham CHALABI
ID	Study on the Combined Effect of Fine Recycled Aggregates and PET Fibers on the Durability of

1434	Self-Compacting Concrete Bayah Meriem, Debieb Farid, Boubakeur Asmaa
ID 1440	First Extraction of Peroxidase from Desert Truffle and Its Application in Decolorizing Bromophenol Blue Dye Abdelhafid BOUREMANA, Fatima El-Houaria ZITOUNI-HAOUAR
ID 1449	Toward a Circular Economy: Ecological Department Model for Wastewater Reuse and Biogas Production Nardjess Belhadj, Lilia Belhadj, Abdelaziz Bendraoua
ID 1454	Synthesis of new material based on Metal-Organic Framework (MOF) mixed with Layered Double Hydroxide (LDH) for elimination of organic dye from wastewater Afoun Meryem, BENNABI Souad, HEDIDI Madani
ID 1460	Boosting the Efficiency of Thermoelectric Modules through Strain Engineering Khadidja Djelid, Taïeb Seddik, Omar Merabiha, Mohammed Batouche
ID 1464	Gestion des Déchets et Recyclage : Solutions pour Réduire la Pollution Liée aux Matériaux et Optimiser leur Recyclage en Algérie FATIMA ADJIRI
ID 1466	Formulation and Characterization of PVA-Based Water-Soluble Films for Biodegradable All-in-One Dishwasher Capsules Abderahmane Belafriekh
ID 1474	Electrochemical Nanostructured Materials for Sustainable Water Treatment: Case of Atrazine Removal Hanene HAMOUS, Javier Fernández, José Bonastre, Aicha KHENIFI, Francisco Cases
ID 1485	Développement Des Matériaux Organiques Dérives De La Rhodanine Pour La Purification De L'eau : Etude De Synthèse Et D'analyse Structurale argoub kadda, toubal khaled, benkouide ali mustapha
ID 1486	Improved Diclofenac Adsorption: A Mechanistic Approach Using Modified Halloysite Choulia Latifa HALLOUI, Mounir KHELIFA, Amina MOSTEFAI, Kheira MAROUF, Amine KHELIFA
ID 1488	Investigates the potential of transition metal-doped ZrS₂ monolayers as next-generation materials for advanced chemical sensing applications: A DFT Study Chayma BOUCHAIR, Amal BOUROUMANA, Selma BOUCHAIR, Abdel-Ghani BOUDJAHAM, Nedjoudia CHEGHIB
ID 1509	Greener Concrete: Recycling Seashells and Ceramic Waste for Flowable Sand Concrete Serine bennabi, Djamila BOUKHELKHAL, Mohamed GUENDOUZ, Loubna Benatallah
ID 1517	corrosion Inhibition of c45 steel in hydrochloric acid medium by an aqueous extract of chamomile flower Malika Nouadji, Saida Marmi, Hanane Djouama, Hayat Marmi, Lynda Abdelli, Zineb Hamida
ID 1520	Les nouveaux matériaux ferromagnétiques d0 générés par le dopage d'un élément non magnétique . BEZZINE Karima
ID 1530	Assessment of Heavy Metal Distribution and Environmental Impact in Sediments saaidia samia, BELAIDI ouafa, BEKAKRIA Hamida, BENREDJEM Zahia
ID 1538	Study of the degradation of methylene blue by electro-oxidation on a PbO₂ electrode Belaidi Ouafa, Saaidia Samia, BEKAKRIA Hamida, Benredjem Zahia
ID 1541	Performance of self-compacting concrete made with recycled aggregates and ternary cement Boubakeur Asmaa, Menadi Belkacem, Djelloul Omer Kouider
ID 1548	Valorisation des déchets des tanneries en matériaux de construction durables, est-il possible ? khadidja DJABER
ID 1561	Modeling of Experimental Adsorption Isotherms of Methylene Blue Dye Using Sapindus mukorossi Pericarp Residue Biomass After Saponin Extraction Fatima Zohra Ziri, Abderrezak Benghalem
ID 1571	Evaluation of A283 Carbon Steel Corrosion in HCl medium Using hydrazine derivative Ilhem selatnia, Oday Mohammad Ahmad khamaysa, Assia sid
ID 1583	Potential use of Cerium Oxide as a Catalyst for The Photocatalytic Degradation of Methylene Bleu (MB) Dye Under UV Light: Effect of Sprayed Volume Sabrina IAICHE, Soumia TOUAM
ID 1594	The effect of cerium oxide and titanium dioxide nanoparticles on the photocatalytic degradation of direct blue 14 Manel Dridi

ID 1617	Algerian Coal Reimagined: A Nano-Scale Gateway to Sustainable Materials and Clean Technologies Meriem FERFAR, Youssouf DRIOUCHE, Amina DRIDI, Souad NARSIS, Elfahem SAKHER, Aissa BENSELHOUB
ID 1626	Dye Elimination Using Emulsion Liquid Membranes: Experimental Design and RSM Analysis Abdelkader BENDERRAG, Imene BENABLA, Boumediene HADDOU, Jean Paul Canselier, Christophe Gourdon
ID 1635	Détermination des paramètres thermodynamiques des mélanges PLA/PMMA par des méthodes numériques Lynda Abbane, Naima Khemici-Doulache, Mohamed Wafik Khemici, Mohammed Atma
ID 1654	Adsorption removal of methylene blue dye from aqueous solution using H3PO4 activated peanut shells Farida Hamdache, Farid Halet, Saida bekhti, Ahmed Réda Yeddou, Boubekeur Nadjmi, Abdelmalek Chergui
ID 1660	Effect of Toluene and THF on Asphaltene stability Ikram Ghalem, Karima Naamoun, Mortada Daaou, Boumediene Bounaceur
ID 1699	Étude de l'efficacité inhibitrice d'une molécule organique nouvellement synthétisée, vis-à-vis de la corrosion de l'acier XC70 en milieu acide. Benramdane Razika*1Amel Djedouani2, Linda Toukal3 et Benghanem Fatiha4
ID 1753	Recycling of an industrial waste used for the disposal of organic compounds MEZOUAGH Amina
ID 1767	Monte Carlo Simulation of Low-Energy Electron Penetration (1–5 KeV) in Semi-infinite Aluminum and Gold Moussaoui Ouidad, Bentabet Abdelouahab, Kahoul Abdelhalim

10:00– 14:00		Online Session wednesday, April 11 th , 2025	
Room 3 Renewable Energies meet.google.com/ufg-cibj-stu			
Online Session Chairs:			
ID 404	Effect of Substituting IZTO with Graphene in a β -Ga ₂ O ₃ Solar-Blind Schottky Barrier Ultraviolet Photodetector Rima Cherroun, Afak Meftah, Lobna Messeddek		
ID 532	Techno-Economic Optimization of an Off-Grid Hybrid Microgrid System Using Multi-Verse Optimizer Zakaria Belboul, Belgacem Toual		
ID 542	Degradation Mechanisms and Early Performance Losses of Silicon Solar Modules in the Algerian Sahara Mostefaoui Mohammed, Ziane Abderrezzaq, Larbi Ahmed Amine		
ID 578	Effet des défauts d'interface sur les performances du système n-B-n InAsSb-n / AlAsSb / InAsSb-n pour la détection infrarouge:Simulation par SCAPS-1D. Bentria Marwa, Cheriet Arbia, Mardhi Lina, Mebarki Mohamed, Aït-Kaci Hocine		
ID 650	Improved Grid-Forming Control of Inverters via Finite Control Set Model Predictive Control with Virtual Synchronous Generator Emulation Mohamed Islam Grairia, Riad Toufouti, Larbi Bousbia		
ID 728	Maximum Power Point Tracking in PV Systems via an Indirect Adaptive Fuzzy Control Approach azzeddine Yahia, Mohamed Tahar Makhouloufi, kheireddine chafaa, nadjiba terki		
ID 730	Multidimensional Analysis of Electronic Interfaces for Hybrid Photovoltaic Devices Lina merzougui, Mostefa Benhaliliba		
ID 737	Active Supercapacitor Control to Minimize Battery Stress in PV Systems Abdelkader Halmous, Hossam E.A Abbou, Khadidja Rahmoun		
ID 742	Enhancement of Frequency Using Virtual Inertia Control in Three-Area Interconnected System with High RESs Penetration Hossam E.A Abbou, Abdelkader Halmous, Salem Arif		
ID 777	Contribution of ZnS insulation layer on the performance of CIGS solar cells		

	Abdelali Laid, Abed Zoulikha
ID 810	Co-Simulation of Wind Turbine and DSIG Dynamics: A HIL Approach for Resilient Power System Design khaled benzaoui, Ishaq Aiche, Ismail Ghadbane, Mohammed Boukhari, Abderrahmen Bouguerra, Samir Zeghlache
ID 822	Performance Comparison of Funnel Boundary Profiles in PI-Funnel Control of Wind Turbines Zaina AIT CHEKDHDH, Aghiles ARDJAL, Samira Oussidhoum, Maamar BETTAYEB
ID 840	Experimental Sensorless Control of Standalone DFIG Using FSPCC and MRAS for Enhanced Wind Energy Conversion Toufik Mebkhouata, Ben Ouadeh Douara, Youcef Chouiha
ID 875	Performance Comparison of PI and Predictive Control Approaches in Grid-Connected PV Systems with Five-Level PUC Topology Touafek Abderraouf, Afghoul Hamza, Krim Fateh, Talbi Billel, Sahli Abdeslem
ID 946	Le compromis entre la résistance série et l'effet d'ombre dans les cellules solaires en silicium sérigraphiées Asmaa BOUYELFANE
ID 1001	Reducing Power Loss in PV Systems with Partial Shading Using Optimized PI Control Loubna Khellaf, Adel Djellal, Hichem Mayache
ID 1013	PI-Funnel Control for the Speed of Wind Energy Systems Hamdane Goucem, Rachid Saidani, Zaina Ait chekdhdh, Aghiles Ardjal
ID 1030	Implementation of P&O MPPT Algorithm for Partial Shading Conditions in Photovoltaic Systems Using MATLAB/Simulink Nadia Bouaziz
ID 1051	Optimized Power Extraction from PEM Fuel Cells Using Incremental Conductance MPPT for DC Load Applications Abdelhalim TAIBI, Fatima BACHIR, Rafik BOUAOUINA
ID 1069	Enhanced Distribution Network Performance via Optimal Renewable Integration and Demand Response Ahmed Hachemi, Mohamed Sahnoun
ID 1112	Integration of a PV Generator and Parallel Active Filter for Power Quality Enhancement in Three-Phase Networks Choayb Bousnoubra, Hassen Belila, Yacine Djeghader, Selma Allele
ID 1145	Adaptive Control of Small-Scale DFIG Wind Turbine Using Luenberger Observer Yaakoub Diboune, Redouane Hachelaf, Djilali Kouchih
ID 1186	Design and Numerical Analysis of a Wind Energy-Driven Permanent Magnet Synchronous Generator Lina BOUHAFS, Salah TAMALOUZT, Ahcen BOUZIDA, Sara ALOUACHE
ID 1228	A Hybrid Algorithm Based on Grey Wolf Optimization and Variable Step Size P&O for Maximum Power Point Tracking Under Partial Shading Conditions Soufiane Hadiby, Dalila Beriber, Khelil Zaouche, Abdelaziz Talha
ID 1236	Double Rotor Wind Turbine and MPPT Controle Afafe Addoun, Abdelkadir Belhadj Djilali, Adil Yahdou, M'Hamed Helaimi, Elhadj Bounadja
ID 1291	Detection and Severity Classification of Stator Short-Circuit Faults in DFIGs via Machine Learning MIMOUNA ABID, SOUAD LARIBI, M'HAMED LARBI, Abderrahmane ABDELLAH
ID 1295	Convergent-divergent chimney optimization for maximum air flow rate in the solar chimney Youcef Bouzida, Abdelmadjide Chehhat, Charafeddine Benatmane
ID 1343	Elimination of Multiple Low-Rank Harmonics in a Three-Level Inverter with SHEPWM Using the Newton-Raphson Algorithm Haithem BOUKERDOUN, Abdelaziz Talha, Salim Mohammed Benmerabet, Fayçal Chabni
ID 1374	Enhancing the efficiency of solar cells in terms of light absorption and energy conversion through the preparation of optimized thin films deposited in varying proportions using the spray pyrolysis technique (SPT). Amiar Ali
ID 1417	Energy Management System-Based PV-Battery Power System Connected to The Grid Necir Abdellatif

ID 1421	Simulation the Effect of Absorber Layer Thickness in ZnO/ Cu₂O Solar Cell Khadidja Naceur, Toufik Tibermacine
ID 1443	Study of Temperature and Solar Irradiance Effects on Photovoltaic Array Performance Salma NAIT BACHIR, Aghiles DJERADI
ID 1468	Impact of TCOs on solar cell efficiency Mama Bouchaour, Imene Azzouni, Laaarej Merad, Taha Meziani
ID 1573	Finite Control Set-MPC of PV-Fed Split-Source Inverter Connected with the Grid Through an LCL Filter Moussa Abderrahim Mehiris, Billel Talbi, Idris Messaoudene, Houssam Eddine Mansouri
ID 1607	Energy building, heating, cooling requirements, and associated costs in greenhouse structures in arid and semi-arid regions, such as Biskra Province Ala Eddine Brikel, Hassina Megherbi, Oussama Bouaiss
ID 1621	Sustainable Energy Utilization Models in Greenhouse Agriculture in Biskra Province Ala Eddine Brikel, Hassina Megherbi, Oussama Bouaiss
ID 1630	Impact of Distributed Photovoltaic Generation on Voltage Stability and Load Profile in IEEE 33-Bus Distribution Network Sabrine Morakeb, Samira Boumous, Zouhir Boumous
ID 1642	Brushless Direct Current Motor versus Induction Motor in Photovoltaic Pumping System: A Comparative Study. Fatima BELGACEM, Mohamed MOSTEFAL, Aicha BELGACEM, Yahia MILOUD
ID 387	Numerical analysis of the thermal behavior and electrical performance of photovoltaic modules under different mounting systems Badreddine LIMANE
ID 438	Numerical study of thermal and dynamic fields during solar drying of clay bricks Messaoud Sandali
ID 448	Neural Network Assisted Multi-Objective Optimization of Solid Oxide Fuel Cell channels geometry Aimen Abdellah Bouaiss, Achraf Senoussi, aymene bacha, ibrahim hedouache, Mohamed Soury Mimoune
ID 457	Hybrid Renewable Energy System Manager Using Artificial Intelligence MIMO-Fuzzy Controller ILHAM AOUACI, ALLAOUA BOUMEDIENE
ID 465	PI based Droop Controller for Distributed Generation Inverters in AC Microgrids Allele Selma, Djeghader Yacine
ID 498	 ELIAS ABDENOUR
ID 508	Numerical simulation on the effect of a heated wall configuration on PCM melting processes subjected to external magnetic field Massouda Djahida Selami, Lakhdar Aidaoui, Yahia Lasbet
ID 544	The Energy Transition in Algeria: Renewable Energies Between Challenges and Investment Opportunities Souad Chennoufi
ID 545	Pyrolysis of Plastic Waste: A Sustainable Approach for Converting Plastic into High-Quality Fuels for Environmental and Energy Solutions ABDERRAOUF Seddik
ID 577	Effet du contact arrière sur les performances d'une cellule thermo-photovoltaïque, utilisant le système GaSb-GaAlAsSb(p/n)/InAsSb-n/GaSb à température ambiante. Cheriet Arbia, Mardhi Lina, Mebarki Mohamed, Ait Kaci Hocine
ID 581	Integration of Renewable Energy in Zero Liquid Discharge Desalination: Hydrogen Production and Water Recovery Optimization ABDELLI Islam Safia, ATTOUTI Salima, Bettaher Ibrahim
ID 582	The optimal FOPID controller design for DFIG-based WECS using metaheuristic algorithm with different cost functions. MABROUK DAHANE, ABDELKRIM BENALI, Tedjini Hamza
ID 608	A Novel Approach for Optimal Placement and Sizing of Distributed Generation in Radial

	Distribution Networks Badreddine Bendriss, Samir Sayah, Abdellatif Hamouda
ID 632	Optimization of Water Use in Agriculture: Impact of Salinity and Sodicty on the Permeability of Irrigated Soils. karou samira
ID 653	Numerical Analysis of Thermal Regulation in Buildings Using Wall-Integrated Phase Change Materials Mohamed Lamine Bedjaoui, Abdelghani Laouer
ID 665	Improving the efficiency of lead-free FASnI₃ perovskite solar cell using Zinc-based electron transporting layers. yacine djalab, Loumafak Hafaifa, Mostafa Maache
ID 754	Controlled Annealing of Sol-Gel Synthesized CoFe₂O₄ Nanoparticles for Optimized Supercapacitor Electrodes loubna merabet, meryem acila
ID 803	Ab initio investigation of structural, electronic, magnetic properties of SnCrO₃ and a contribution in spintronic applications Aissa BENKATLANE, Djamel RACHED, Habib RACHED
ID 804	First-Principles Investigation of Structural, Electronic, and Magnetic Properties of a Half-Metallic Ferromagnet Aissa BENKATLANE, Djamel Rached, Asma HACHILIF, Habib RACHED
ID 844	"Advanced Electric-Thermal Materials: Bidirectional Energy Conversion for Heat-to-Power and Power-to-Heat Applications" Bouadjemi Bouabdellah, mohamed houari, mohamed matougui, messoudi Abdelkarim, Iantri tayeb, hamiche korichi, samir bentata
ID 968	Simulation and Optimization of CH₃NH₃PbBr₃ Based Perovskite Solar Cells Fatima Zohra OTMANI
ID 980	Modeling and Optimization of Lead-Free MASnBr₃ Perovskite Solar Cells with FTO/ZnS/Spiro-OMeTAD Structure through Numerical Simulation Mohamed Amine Benatallah, Abdenmour El Mohri, Selma Rabhi
ID 992	Control of active and reactive power of a wind turbine based on a synchronous generator DAHOU BRAHIM
ID 1009	Evaluation of the Antibacterial Activity of Extracts Obtained from Natural Resources Amireche Rayen Cherifa, Lerkeche Ouassila
ID 1019	Cellule solaire à pérovskite sans plomb à haut rendement intégrant deux couches absorbantes : une étude numérique Keltoum DRIS
ID 1043	Exploring Case Study to Enhance Photovoltaic Power Forecasting Using Artificial Intelligence Techniques. Fares Bennaceur, Boualem Benlahbib, samia gamouh, oussama mezioua
ID 1046	Leveraging Artificial Intelligence for Enhanced Short-Term Photovoltaic Power Forecasting fares bennaceur, Boualem Benlahbib, samia gamouh, oussama mezioua
ID 1050	Photodegradation Effects on Polymer Materials Used in Photovoltaic Applications Nour El Houda CHEHAT, Naima DOULACHE, Samira SALI
ID 1053	Integration of Lithium-Ion Battery Storage with Renewable Energy Systems Using a Fractional Order PI (FOPI) Controller Abdelhalim TAIBI, Fatima BACHIR, Rafik BOUAOUINA
ID 1054	Enhanced Maximum Power Point Tracking with Variable Incremental Conductance Algorithm using Sliding Mode Control Nassir Deghfel
ID 1066	Enhanced PO-MPPT Based PV-UPQC System for Power Quality Improvement and Grid Stability Zakaria REGUIEG, ismail BOUYAKOUB, Fayçal MEHEDI, Fatiha BOUHADJI
ID 1070	Performance Optimization of CGS/CIGS Triple-Junction Solar Cells Using Silvaco-Atlas 2D Simulation DJEDOU Layachi
ID 1141	Etude des écoulements convectifs et des applications énergétiques à base de nanoparticules de

	magnétite. BITOUR Aya, BOUBAKER Rania, NAOUS Mohamed, KARAS Abdelkader, Abdelillah BENAHMED
ID 1175	Numerical research on the New kinematic for flapping wing of Droop-Nose Leading-Edge (DNLE) to increase the extracted power. Belkacem LAMAMRA, Abdelbasset Chebana, Laala Ghilani, Mohamed Taher Bouzaher
ID 1205	Breaking Efficiency Barriers: A Comparative Simulation of GaAs and BAs Solar Cells for Next Generation Photovoltaics Laarej MERAD, Mama BOUCHAOUR, Imane BOUAZZAOUI
ID 1212	3D Numerical Investigation of an Air-Based Hybrid PV/T Solar Collector Featuring Innovative parallelepiped Fins Mallik Lynda, BENSIDER Nora, BENDJENNE Abdelghani, CHELBI Fatma zahra
ID 1234	Towards the Study of Stability in the Formation of Organic Solar Cells Using Martini force field SEGHIRI Salah Eddine, SABEUR Sid Ahmed
ID 1256	Robust Networked Control for Hybrid Microgrid under Communication Delays and Uncertainties Mahfoudi Rayane yasmine, Boumous Zouhir, Boumous Samira
ID 1336	Performance evaluation of airflow and heat distribution in a drying room through experimental measurements and CFD modeling. Zouhair Aouissi, Bourhane Bouhabal, Abdelfatah Marni Sandid, Foued Chabane, Hamza Benhacine, Salim Eutamene
ID 1360	Insight on structural, optoelectronic and thermoelectric properties of perovskite $\text{Rb}_2\text{B}'\text{BiF}_6$ ($\text{B}' = \text{Ag, Cu}$) by an Ab-initio for solar cell and renewable energy applications Allouche Asma
ID 1409	Electrical Performance and Degradation Analysis of Field-Aged PV Modules in Hot Climate: A Comparative Experimental Study Mohammed YOUNES, Belhadj CHEKAL AFFARI, Nabil KAHOUL, Zoubida KHERICI
ID 1438	Comparative Analysis of Conductive and Insulating Shell Materials case of tank Chahinaz HABIB, Dajffar SEMMAR, Djamel Lafri
ID 1446	Prediction of Photovoltaic Array Performance Using Artificial Intelligence Salma NAIT BACHIR, Aghiles Djeradi
ID 1470	Numerical study on the effect of the collector diameter of a solar chimney Ammar SEMANE, Razika IHADDADENE, Elhouas BEDJEGHIT, Nabila IHADDADENE, Elhadj RAOUACHE
ID 1492	Enhancing Photovoltaic Performance In Hot Climates Using Active Cooling: A Trnsys Simulation Study Dida Mustapha, korichi sabrin, Naili Nabiha
ID 1514	Fault Tolerant Control for IGBT in DC-DC Converters of PV Grid Systems Ahmed Djerboub, Amina Tamer, Tayeb Allaoui
ID 1549	Improving the stability of perovskite solar structure using a protective layer Aicha Aziza Ayad
ID 1589	Evaluation of the performance and efficiency of fractional-order feedback PI controllers in multi-rotor wind turbine systems Habib Benbouhenni, Hamza Gasmi
ID 1634	L'impact du choix de la technique de métallisation sur le facteur de forme des cellules solaires en silicium. Asmaa BOUYELFANE
ID 1661	Towards Eco-Friendly Solar Cells: Simulating Alternative Buffer Layers for Improved CZTSSe Performance BENTOUMI Khaoula
ID 1802	Bending and Free Vibration Responses of Isotropic and FGM Double-Curved Shells Using Semi-Analytical Method Based on Efficient HSDT M. A. Kenanda, Fodil Hammadi, Zakaria Belabed and Brahim Mebarki
ID 1803	Numerical Simulation of Aerosol Behavior in Indoor Environments

	Bachir ZEBACH, Fezzioui Naima ¹ and Benyamin Meberika ¹
ID 1804	Numerical investigation of PCM-Integrated Building Envelopes: Analysis of Thickness Effects Brahim MEBARKI, Merwa Hayam LOGAB, Farouk BOUCHAKOUR, Bachir ZEBACH, Fodil HAMMADI and Abdelmadjid ALOUANI ¹
ID 1805	Environmental impact of wastewater on a semi-arid watershed, North Eastern Algeria BENRABAH Samia ¹ , TOUATI Mounira ² , ALLOUANI Nora ³
ID 1806	Advanced Energy Management Strategy for Grid-Integrated PV Systems with Battery Storage ZAIDI Sarra, MELIANI Bouziane, BOUDDOU Riyadh and MOHAMMED BELHADJ Souheyb
ID 1809	Biotechnological Valorization of Molasses for Bioethanol Production in Algeria Fatima Zohra Baouche, Djilali ELHADJ Djilali, Cherifa KARA MOSTEFA KHELIL, Ihssen Hamzaoui, SELIM Aya, HATTAB Soumia
ID 1606	Imane Benkechkache, Mehdi Kaghouche, zerti Mouna Geospatial Analysis Applied to Natural Hazard Prevention: Methods and Applications. Case Study of the City of Constantine
ID 1812	Computational Analysis of a New Azo Material for Bulk Heterojunction Solar Cells Nour El Houda Belkafouf , Ikram Belkafouf, Rachida Rahmani, Merzouk Saidj and Abdelkader. Chouaih
ID 1813	YOLOv8-Based Real-Time Obstacle Identification and Avoidance with RGB-D Sensors amar.medjaldi
ID 1684	Optimizing PV Energy in Photovoltaic Systems Integrated with Lithium-Ion Battery Storage Nadia Ben Si Ali, Nora Zerzouri, Nadia Benalia
ID 1686	Model Predictive Control: A Robust Strategy for Fault Detection and Mitigation Hadia Belhouche, Zouhir Boumous, Samira Boumous
ID 1687	Adaptive PID Control of H₂ and O₂ Supply Pressures for Improved Efficiency and Stability of Fuel Cell Systems Under Fluctuating Load Conditions Kabache Sabah, Bouregba Hicham
ID 1714	FPGA-based Real Time Implementation of Lyapunov-based Model Predictive Control for LCL Filtered Grid-tied Inverter Moussa Abderrahim Mehiris, Billel Talbi, Idris Messaoudene, Houssam Eddin Mansouri
ID 1731	Dynamic Stall Analysis in H-Type VAWTs: A Numerical Study Abdelouahed Ayachi Amar, Ali Ayachi Omar, Chaima Ayachi Amar
ID 1749	Modeling and Control of a Marine Current Turbine Rayenne KADRI, Zakia ACHAIBOU, Abdelkader GARMAT
ID 1754	Degradation of multicrystalline silicon solar cell under illumination Imad Yacine Zentar

Online Session Chairs:

ID 403	Élimination photocatalytique assistée par UVA de la rhodamine B à l'aide de charbon activé synthétisé de manière écologique dérivé des noyaux de dattes et imprégné d'Ag/ Ag ₃ PO ₄ . Fouad GUENFOUD
ID 425	Synthèse, calculs théoriques et docking moléculaire de 3-méthyl-2-alkylthio-5-phénylaminométhylène imidazol-4-one . MERDJA KHEDIDJA
ID 434	Volumetric and Optical properties of the binary mixtures of 1-ethyl-3-methylimidazolium ethyl phosphonate + methanol or 2-propanol FARIDA ALLAL, Fatiha BENTAHAR, Messouda BOUZIANI, Omar ElFarouk HOUACHE, Zohra HOUYOU
ID 574	Nanoparticules supportés sur des mésopores pour l'adsorption de CO ₂ et le stockage de H ₂ Asma Kawther Lachachi, Rachida Ouargli Saker, Lylia Saker
ID 643	Quantum study of corrosion inhibition of carbon steel in acidic medium by a new molecule SB-H Imene BENMAHAMMED, Tahar DOUADI, Saifi ISSAADI
ID 657	Chemical Composition and Acaricidal Activity of Eucalyptus sideroxylon from Algeria Ghania Atmani-Merabet, Sihem Fellah, Hichem Hazmoune, Abdelmalik Belkhiri
ID 684	Quantum Chemical Insights into the Nonlinear Optical Properties of Chalcone Derivatives for Optoelectronic Material Benamar Baroudi, Toufik Bensafi, Djebbar Hadji
ID 709	Structure optimization during the adsorption of FAF on a metallic surface Hanaa SARI MOHAMMED, Karim MERABTI, Sihem AZIZI
ID 719	Evaluation of the corrosion inhibiting efficacy of three isoxazoles derivatives against XC38 steel corrosion in HCl Rebie Chahrazed, Benali Omar, Sehmi Abdelghani
ID 720	« 5-[(2-Hydroxyethyl)aminomethyl]-8-hydroxyquinoline: Synthesis, structural analysis, and evaluation of antiproliferative activity. » AOUNALLAH Aicha Houaria, HADJEDJ-AOUAL Fatima, CHADLI Radouane
ID 758	UTILISATION DES NANOMATERIAUX POUR LA SYNTHÈSE D'HETEROCYCLES AZOTES PAR CYCLOADDITION DIPOLAIRE-1,3 sarah zaghada, Mohammed Amine Mehdid, Nawal Ameer, Ghania Bnetabed-ababsa
ID 787	Synthesis, Spectroscopic Studies, and Crystal Structure of 2-(5-Bromo-2-hydroxyphenyl)benzimidazol-3-ium Acetate Acetic Acid Solvate Raounek Rouag, Lamia Bendjeddou, Stéphane Golhen, Amani Hind Benahsene, Hocine Merazig
ID 797	Identification of Acetylcholinesterase Inhibitors and Stability Study of Inclusion Complexes: Computational Perspectives Noria Mostefai
ID 869	Synthesis, characterization, and photoluminescence studies of a novel Dy(III) coordination polymer. Roza MAOUCHE, Yasmine CHEDDANI, Sabrina BELAID, Belkacem BENMERAD
ID 890	Characterization of magnesium carbonate-reinforced polypropylene composites processed by injection molding GUEMMOUR Hind, KHEFFACHE Djaffar
ID 944	The effect of mineral salt concentration on the biosynthesis of nanoparticles from a medicinal plant ABDELHAK AZZOUZ, Nadia fekih, Mohamed beldjilali
ID 998	In Silico Prediction of Pharmacokinetics and Toxicity for a Dibrominated Aromatic Compound: Implications for Drug Development Douadi Khaoula, Rikouh Rahma Amina, Douadi Tahar

ID 1060	EXTRACTION DES ALCALOÏDES A PARTIR DES PLANTES (Datura stramonium L) aicha ZERROUKI, ahcene AIT AMER, mostefa KAMECHE, Cristophe innocent
ID 1079	Synthèse, Caractérisation Spectrale, Docking Moléculaire Et Analyse ADMET D'un Nouveau Dérivé De La Vanilline Takoua Belghit
ID 1081	OPTIMISATION DE L'EXTRACTION DE BLEU DE METHYLENE PAR MEMBRANE LIQUIDE EMULSIONNEE EN UTILISANT LE D2EHPA COMME EXTRACTANT Bendebane farida, Bendebane Salima, bendebane Hawa, Ismail Fadhel
ID 1167	Predicting Melting Points of Polycyclic Aromatic Hydrocarbons Through QSPR Modeling with Multiple Linear Regression Youssef DRIOUCHE, Meriem Ferfar, Amina Dridi, Ouahab Rahim, Salah Arif
ID 1270	Date Pits as a Polysaccharide Source: A Compositional Study K., K., M., S., S.M.,S. BABOUCHE, HAFID, AGGOUN, SILVA, CARDOSO, FERREIRA
ID 1272	Synthesis, crystal structure and Hirshfeld surface analysis of Di-aqua-(1,10-phenanthroline-N,N')-Nickel(II)sulfate complex Ines Benzitouni, Nesrine Benarous
ID 1297	ALGERIAN Ruta. Sp: A NATURAL SOURCE OF BIOACTIVE COMPOUNDS FOR OXIDATIVE STRESS THERAPY Amira Randa Rimas Meziane, Hind FENGHOUR, Hanane SEGHEIR, Nessrine MERHOUNE, Nasreddine BENABDESSALEM
ID 1333	Exploring the Antidiabetic Properties of Bioactive Compounds in Elaeagnaceae Species rayene Bouaita, Randa Djemil, samira bouhalit, saber boutella, zineb bouamrane, amina hamzaoui
ID 1346	In silico Evaluation of Warfarin Enantiomers Affinity Toward the Cytochrome CYP2C9 using Molecular Docking Study Marwa Ghouizi, Khaled Sekkoum, Nasser Belboukhari
ID 1392	From Waste to Wealth: harnessing Plant Extracts for Green Corrosion Inhibition in Pickling Processes Lamis TOUATI, Mina BOULKROUNE, Kamilia Chahrazed KSIR
ID 1396	The formation of inclusion complex system between β-Cyclodextrin and Pyrazolidine: characterization physicochemical and in-vitro antibacterial activity Boubaker BOUKELLAL
ID 1407	Deep modeling approach combining DFT, NBO, AIM, TD-DFT, GIAO and SQMFF for the study of a choline-based ionic liquid Aya Khadidja TOUIL, Boumediene Haddad, Bekhaled Fetouhi
ID 1471	Chemistry of the vine cane waste fatima kamah, Norhane Chouiter
ID 1491	Stereoselective Synthesis of R-1-(1-hydroxybutan-2-yl)-3-phenylthiourea Thinhinane HAMACHE, Nasser BELBOUKHARI, Khaled SEKKOUM, Mohammed El Amin Zaid
ID 1493	VCD Analysis of Chiral N-Phenyl Thiourea Derivatives Halima OULAD ALI, Nasser BELBOUKHARI, Khaled SEKKOUM
ID 1528	Molecular Docking Approach of 1-(1-hydroxypropan-2-yl)-3-phenylthiourea as a Potential Mitogen-Activated Protein Kinase 14 (MAPK14) Inhibitor for Anti-inflammatory Djawhara HADDAD, Nasser BELBOUKHARI, Khaled SEKKOUM, Meriem BOUANINI
ID 1563	The role of planted dune sand filters in improving the quality of treated water from wastewater treatment plant No. 2 in the Oued Souf region (S.E Algeria) Hnanou Ahmed, Mimeche Leila, Zouita Nadjoua
ID 1565	Development and Analysis of SnO₂ Thin Films Tioursi amina, Miloua redouane
ID 1647	Extraits de plantes : leur effet biologique et leurs applications thérapeutiques charif guassa, sihem boudermine, Imen Ramli, Tarek Boudiar
ID 1710	Bioactive Rhodanine Derivatives: DPPH and ABTS Radical Scavenging Studies HAOUA HAMANA, ABDELKRIM GOUASMIA, MERIEM BOUMEDJOUT, Chaouki BEN SOUCI
ID 1722	Sustainable synthesis and theoretical study of some novel carboxysulfonamides

	Soumaya Bouskia, Chafika Bougheloum
ID 397	Fragment-Based Drug Discovery of KRAS G12D Inhibitors for Pancreatic Cancer Therapy Narimene Chahbaoui, Saida Khamouli
ID 399	DFT Study of the Adsorption and Sensing Behavior of MGe55 (M = Rh, Cr, Mo) Monolayers Towards Toxic Gas Molecules meryem derdare, abdel-ghani boudjahem, yasmine mezari, cheghib nedjoua
ID 401	Structural Study Of A New Polymorph Of 5,5-DichlorobarbituricAcid wahiba Falek, Rim Benali-Cherif, Radhwane Takouachet, Zoubir Hemame, Faouzia Hamadi, Nourredine Benali-Cherif
ID 432	Étude comparative de l'activité antioxydante et de l'effet hémolytique des huiles essentielles et extraits de deux plantes médicinales : une approche en chimie verte au service de la santé Meliani Nawel, Tchenar Faiza, Medjedoub Houria
ID 452	ANALYSE DES POLYPHENOLS ET DE L'ACTIVITE ANTIOXYDANTE D'UNE HOEV COMMERCIALE ESMA BOUDEHANE
ID 475	ÉVALUATION DE LA CYTOTOXICITÉ IN VITRO DE L'EXTRAIT HYDRO-ACÉTONIQUE DES ÉCORCES DE FRUITS DE PUNICA GRANATUM YOUNES Ikhlal, BENTABET Nesrine, MEFTAHI Choukria
ID 492	Electrochemical characterization of metallic materials in presence of an organic inhibitor in HCl acid studying the effectiveness against corrosion ikram DAKHOUCHE, Rachida KERKOUR, Nadjib CHAFAI
ID 570	Synthesis, characterization, crystal structure , FT-IR and HS of Zinc(II) Complexes. Narimane Marwa Boukezzoula, Mehdi Boutebdja, Ahlem Linda Boulkedid, Tim GRUENE
ID 611	Electrochemical study of a plant extract as a corrosion inhibitor for steel in acidic environment ksir kamilia, Boulkroune Mina, Touati Lamis
ID 626	Evaluation of the bactericidal efficacy of Balanite Aegyptiaca plant extract YAZID AMRI, Mohammed abdelkader Belalem, mohammed said Nedjimi
ID 645	ABTS+ radical scavenging capacity of the key bioactive compound in rosemary essential oil (Rosmarinus officinalis) lezzag Hayet Ahlem
ID 673	Extraction of bioactive compounds and evaluation of the antioxidant activity of an Algerian plant ARAB Ouahiba, sebih fatiha, BELLAHOUEL Salima, KAMBOUCHE Nadia
ID 683	Adsorption du collecteur cationique sur quartz et son implication en flottation. OUIZA MOHAMMED CHERIF
ID 726	Removal of Acid and Reactive Dyes Using Bentonite Intercalated with Hydroxy-Aluminum and Cetyltrimethylammonium Bromide faiza zahaf, reda marouf, fatima Ouadjenia
ID 778	In vitro assessment of total phenolic content, antioxidant activities of aqueous extract of Echium boraginaceae family growing in the M'sila region (Algeria) Amel FENNICHE
ID 798	Synthesis, biological evaluation and in silico analysis of 4-arylidenepyrrolone derivatives. Rania Addadi
ID 827	Evaluation of the antioxidant activity of a medicinal plant from the Constantine region (northeastern Algeria) Aya Brika, Nadia Zeghad, Naoui Amira, Latifa Khattabi
ID 835	TREATMENT OF DAIRY WASTEWATER BY ADSORPTION ON ACTIVATED CARBON EULMI AMINA, Abrane Rahma, Hazourli Sabir
ID 858	Highly Efficient Photocatalytic Degradation of Methylene Blue Dye Using Sodium Alginate/TiO₂ Nanocomposites Fadila Bekkar, Hadjer Belhaoua, Faiza Betaher, Rachid Meghaber
ID 865	Nanostructured micro-sensor for p-aminophenol determination in water samples Lydia TAOURI, Mustapha BOUROUINA, Saliha BOUROUINA, Didier HAUCHARD
ID 866	Modulating Bovine Xanthine Oxidase Activity: The Role of Buffers and Salts Fatna Bellahcene, Khedidja Benarous, Abderahmane Linani, Alaeddine Kaouka, Mohamed

	Yousfi
ID 894	DFT Study of AgnMo Clusters for Green Catalysis: Adsorption of SO₂ and H₂S for Environmental Remediation meryem derdare, abdel-ghani boudjahem, yasmine mezari, cheghib nedjoua, bochra bencheikh
ID 895	Prediction of Fish Acute Oral Toxicity (LC50) of Pesticides Using QSAR Model Badiet El Djamel Nedjma Mahtal
ID 945	Machine Learning for Chemical Innovation: From Material Functionalization to Food Analysis Soraya Aidene
ID 951	A nonenzymatic IN625F-Ni(OH)₂ electrodes for glucose oxidation adorned with Nickel nanoparticles (NPs) Rafiaa kihal, Mohamed Lyamine Chelaghmia, Fatima Zahra Makhoulouf, Hassina Fisli, Widad Drissi
ID 954	The alcohol extract of Calycotom spinosa as a green corrosion inhibitor for XC38 steel oussama zaoui, Farouk Boudou, Abdelghani Sehmi, Karima Dehak-Oughlissi, Mebarka Bouziane
ID 970	Comparison of deferent processes direct photolysis homogeneous photo-Fenton and heterogeneous photo-Fenton and complex nanoparticle system and Like-Photo-Fenton heterogeneous Ibrahim Mouhoub * 1 , Farid aoulmit 2 , Sami kemoukh 3 Ibrahim Mouhoub * 1 , Farid aoulmit 2 , Sami kemoukh 3
ID 986	Molecular Modeling of Pomegranate peel Phenolic Compounds: Solvent Interactions and Activity Prediction. BOUKEZZOULA Amina, BOUDEMAGH Djalila, BOUNEKHEL Mahmoud
ID 1028	Electrochemical Detection of Heavy Metal Ions Based on Nanocomposite Materials – A MINI REVIEW. Zebida Nouis, Naima Maouche, Chahrazad Amrane
ID 1044	Phosphorescence, molecular docking and molecular dynamic simulation of Pt(II) complexes. IDDOU Dehbia Kaouthar
ID 1115	Cerium oxide nanoparticles as corrosion inhibitors for A1008 carbon steel in 3.5% NaCl: A study on the effects of immersion time. Safa Salmi, Hichem Boudelloua
ID 1126	Preparation of Isobornyl/Bornyl Methacrylate from Artemisia Arborescens Essential Oil Naziha Chabane, Fayçal Dergal, Chewki Ziani-Cherif
ID 1153	Criblage phytochimique de plante médicinale saharienne Rhus Tripartita (Ucria) atouani hadjer, benmahdi houciné, fellah khadidja
ID 1262	Synthesis of Fatty Nonionic Surfactants with Azole Ring and Study of Their Surface Parameters. Manel Chehrouri, Adil Ali Othman, José Miguel Sansano
ID 1373	New Schiff bases derived from o-cyanoaniline: synthesis, crystal structure, Hirshfeld surface analysis, biological activities, ADMET and molecular docking studies Nesrine Benarous, Ines Benzitouni, Hassiba bougueria, Nabila Moussa Slimane, Aouatef Cherouana
ID 1469	Efficient heavy metal removal from water using a novel thiosemicarbazone-based ligand Mohammed Yassine HAMIMED, Imane BELFILALI, Fouad GUENFOUD
ID 1475	A GREEN CHEMISTRY APPROACH TO THE RESOLUTION OF SECONDARY ALCOHOLS VIA ESTERIFICATION REACTION Rahma Achouri, Nedjma Melais, Wassila YAHIA
ID 1481	Chemical Composition and Antimicrobial Potential of Lavandula angustifolia Essential Oil FATMA ZOHRA AYACHI AMAR, Mohamed Bilal GOUDJIL, Zineb MAHCENE, ASMA AYACHI AMOR, CHAIMA AYACHI AMAR
ID 1487	Chemical Composition and Antimicrobial Potential of Mentha longifolia Essential Oil FATMA ZOHRA AYACHI AMAR, Mohamed Bilal GOUDJIL, Zineb MAHCENE, ASMA AYACHI AMOR, CHAIMA AYACHI AMAR
ID 1522	Modélisation moléculaire des anomères d'un biotensioactif à base de D-xylose LOULOU Fatma, BIDJOU-HAIOUR Chahra

ID 1581	A computational study of the mechanism and selectivity of [3 + 2] cycloaddition reaction between alkenes and nitroalkanes substituted with O-alkyl oxime groups. Ahlam Chiheb, Wassila Yahia
ID 1623	A DFT study of the host-guest interaction between boric acid and β -cyclodextrin Nihad MEKARBA, Ferial Krid, Youghorta Belhocine, Abdelaziz Bouhadiba, Seyfeddine Rahali
ID 1674	Synthesis and characterization of cancrinite zeolite Lagraa Ouafa
ID 1676	Influence of the extraction solvent on phenolic content, antioxidant, and anti inflammatory activities of Ephedra Alata Alandra. SAMIRA BOUHALIT, lilia DOUAOUYA
ID 1698	Comparative HPLC Analysis of Ascorbic Acid Content in Ethanolic Extracts of Leaves and Pulp of Ceratonia siliqua L. from Blida and Tipaza (Algeria). Yasmine Merdji, Meriem Touaibia
ID 1719	 bekakria hamida
ID 1728	Evaluation of AntiAlzheimer's Potential of new Azo Dye : Synthesis, characterization andCholinesterase Activity Sana Bouanani, Hassiba Bouguerria, Nesrine Benarous
ID 1762	In Vitro Anti-inflammatory Efficacy: N-FERROCENYLMETHYL-N-ACETYL-2-CHLOROANILINE Compared to Steroidal/Non-Steroidal Agents marwa djarallah, Elhafnaoui LANEZ, Lazhar Bechki, touhami lanez, aicha adaika

10:00– 14:00		Online Session wednesday, April 11 th , 2025	
Room 5 Engineering meet.google.com/rnt-voge-uvo			
Online Session Chairs:			
ID 369	Investigating the Capability of VLC at Vehicular Intersections Scenario Aicha Meghraoui, Mohamed Larbi Tayebi, Mokhtar Besseghier		
ID 501	An Enhanced P-Version Finite Element for Free Vibration Analysis of FGM Sandwich Plates with Multiple Porosity Distributions BENTRAR HAKIM, Belalia Sid Ahmed, Chorfi Sidi Mohammed		
ID 550	Process Optimization and Sustainable Valorization of Juniperus oxycedrus Essential Oils: A Chemical Engineering Approach Soumia MENAD		
ID 589	a Numerical Simulation of Combustion in a Spark-Ignition Engine Running on Bioethanol Boughi Habib, Bengherbia Nardjes		
ID 637	Impact of axial load variation on lateral dynamics and wave propagation in periodically constrained drill strings: An Euler-Bernoulli beam analysis with periodic contact modelling NORA BENMIR, Hamza Akroum, Mohamed.Z Doghmane		
ID 647	Study of the speed control of a brushless Motor Based on indirect AC/ AC converter Asma BENHEMINE, Hamza TEDJINI, Abdel Djabar BOUCHAALA, Imen CHAOUFI		
ID 695	Data-Driven Machine Learning Approach for CO Emissions Forecasting in Industrial Power Systems Hassina Madjour, Hanane Zermane		
ID 740	Mechanical characterization and multiscale approach of Date Palm Fiber-Reinforced PVC composite Samir Chouarfia		
ID 744	Effet des propriétés mécaniques et dimensions de la cupule à double mobilité sur la contrainte maximale du ciment osseux. Benali Boutabout, Mohamed Mokhtar Bouziane, Noureddine Djebbar, Rachid Hadj Boulenouar		
ID 855	Stealthy False Data Injection Attack against State Estimation in Smart Power Grid: A review Younes Gasmi, Noureddine Bali, Atif Karim, Soufiane Belagoune		
ID 856	Improving Cybersecurity in Smart Power Systems Through Machine Learning algorithms and Data Augmentation Younes Gasmi, Noureddine Bali, Atif Karim, Soufiane Belagoune		

ID 961	Numerical study of the Influence of various types of nanomaterial on natural laminar convection in heat exchanger Addour khalissa
ID 1005	Electronic Structure, Optical Response, and Thermoelectric Potential of a Half-Heusler Compound: A DFT Study Aya Righi, Fatima Bendahma, Abbes Labdelli, Khedidja Mechehoud, Mohamed Mana, Bilel Achir
ID 1064	Electrical Reflectometry: From Conventional Diagnosis to Advanced Distributed System Monitoring Yasmina Tabouri, Mouad Addad, Ali Djebbari
ID 1099	Numerical Simulation of an Asymmetric Three-Dimensional Supersonic Nozzle Square-Shaped Abada Omar, Ammour Fidaa
ID 1113	PQ & DQ based shunt active power filter with hysteresis technique Choayb Bousnoubra, Hassen Belila, Djeghader Yacine, Selma Allele
ID 1128	Increasing Heat Exchanger Efficiency: The Impact of Strategic Baffle Implementation litouche bilhel, Abdedaim Imene, Rebai Billel, Bella Mourad, Benslimane Hocine
ID 1148	Investigation of Phase Equilibrium in Ternary Liquid-liquid Extraction Systems Soumaya Larous, Nadjet Boulkroune, Yousra Yamoun, Rania Tadjadj
ID 1180	Effect of Tempering Temperature on Hydrogen Desorption of AISI 4140: Neural Networks Analysis Soumia OURRAD
ID 1213	Enhancing Surface Roughness in Steel Machining: A Comparative Study of Ceramic Tools. Hadjira LOT, Mohamed ELBAH, Mustapha TEMMAR, Nesrine MELZI
ID 1263	Numerical simulation of the degradation effects of adhesives and composite materials used in the strengthening of damaged structures BELGHOUL Hakima
ID 1340	Green and Efficient Extraction of Phenolic Compounds using Ultrasonic-Assisted Extraction: Effect of Extraction Parameters Monssef Merdjemak, Hadjer Mabrouki, Rosa Haouche, Djamal Eddine Akretche
ID 1494	Deep Learning-Based Thermal and Structural Analysis of Bone Tissues in Medical Imaging Meriem Zeboudj
ID 1513	Effect of Various Parameters on the Dynamic Performance of Rotating Shafts Using FGMs and p-FEM abdelfetah moussouni, Ahmed Mezrag
ID 1518	Thin layers of ZnO under negative pressure for enhancing SAW strain sensor applications Fahima Arab, Fares Kanouni
ID 1616	Theoretical and experimental investigation of the limiting flow discharge and the characteristics of the hydraulic jump in a "U"-shaped channel. sonia cherhabil, Ali Bedjaoui, Seifedine Benabid
ID 1655	Machine Learning Techniques for Fault Detection and Classification in Industrial Systems Hassina Madjour, Rahmouni dejmaa, Hanane Zermane, Mohammed Djamel Mouss
ID 1732	Towards optimized maintenance in a distributed context khaoula soltani, Messaoud Benzouai, Mohamed Djamel Mouss
ID 1764	Numerical Simulation of Magnetohydrodynamic Natural Convection in a W-Shaped Cavity Filled with Ag-water Nanofluid BOUKHAMLA FATIMA ZOHRA, ZEMANI Farah, LADJEDEL Omar, SEREIR TEWFIK
ID 468	Vehicular Applications Safety Aided Visible Light Communications Aicha Meghraoui, Mohamed Tayebi, Mokhtar Besseghier
ID 519	Impact du climat semi aride sur les variations des paramètres physicochimiques des eaux souterraines dans la région de Rihab Chougar, Fethi Baali, Lassaad Ghreib
ID 520	Mapping the spatial variations of physicochemical parameters in the Tebessa–Morsott plain using GIS Rihab Chougar, Sana Rachi, Fethi Baali
ID 539	Comparative Analysis of Transfer Learning-Based Deep Learning Models for Brain Tumor Classification Abdelkarim Cherhabil
ID 549	Elaboration d'un film biodégradable à base d'amidon de pomme de terre

	fahima bouarar
ID 573	Science, ingénierie et agriculture durable : valorisation des déchets végétaux pour une économie circulaire Khedidja HOUTIA
ID 649	Comparative study of direct matrix converter and indirect converter Asma BENHEMINE, Hamza TEDJINI, Imen CHAOUFI, Abdel Djabar BOUCHAALA
ID 663	Contribution to the study and improvement of fiber composite materials of plant. Nedjema Araar, Nedjema Araar
ID 707	The importance of drain sizing in the stability of embankment dams Latifa BENDAOUDI, Nadia SMAIL, Bouchrit ROUISSAT
ID 793	Effet de la géométrie de l'empreinte du poin FSW sur le comportement mécanique des assemblages réparés par friction malaxage Hasna Hadj boulenouar, Mohamed Mazari, Rachid Hadj boulenouar
ID 805	Detection and Diagnosis of Rotating Machinery Mechanical Faults Using MCSA and DWT-Energy Technique Houssem Hamdane, Abdelkarim Bouras, salim Aouabdi
ID 834	Optimizing Wireless Sensor Network Communication: A Comparative Study of ZigBee and DigiMesh Protocols Halima Sahraoui, Ameer Dahani
ID 851	Enhancing Machine Learning Algorithms through Feature Engineering Techniques for detecting Cyber Attacks in Smart Power Grid Younes Gasmi, Noureddine Bali, Atif Karim, Soufiane Belagoune
ID 889	Enhanced Gain of Reconfigurable Beam Slot Antenna Integrating Dielectric lenses for WLAN applications AICHA GHERBI, idris messaoudene, Massinissa BELAZZOU, Choumeysa CHENNOUF, Boualem HAMMACHE, Salem TITOUNI
ID 921	Modélisation tribo-dynamique des interactions rotor-palier hydrostatique Belgacem Souad
ID 953	Analytical Evaluation of MIMO Antenna Performance for 5G Applications Using a Combined Cost Function of S11 and ECC remili fatima, Bouttout Farid, Asma Djellid, Amine Harhouz, Brahimi Abdelhalim
ID 1008	Hardware Implementation of the space vector PWM control for a three-phase inverter supplying an induction motor Chafa mohamed, baali Mehdi
ID 1011	The effect of magnetic field on hydro-magnetic hybrid nanofluid flow through converging-diverging channels Daoudi Safa, Sari Mohamed Rafik, Kezzar Mohamed, Nehal Abdelaziz
ID 1025	Optimizing Wavelet Choice Based on Noise Source in Partial Discharge Denoising Mohamed Ayoub Sahnoune, Boubakeur Zegnini, Tahar Seghier, Ibrahim Chakkem, Ahmed Hahemi
ID 1117	Interaction study of HDPE gas pipes with aggressive hydrocarbon environments bouslah kouka, richi marwa, berkas khaoula, hamlaoui nacira, chaoui kamel, alimi latifa, melais fatma zohra
ID 1122	Advanced Simulation of 5G Networks: Link and System Level Insights Khalil Ibrahim Lairedj, Ikram OUCI, Sarra ABDEDOU
ID 1124	Remote Sensing and GIS for Identifying Flood-Prone Areas Using the Topographic Wetness Index (TWI) in Mountainous Regions. Farid Aoulmit, Ibrahim Mouhoub, Sami Kemoukh
ID 1138	Effect of Solvent Ratio on Liquid-Liquid Equilibrium in Quaternary Solvent Mixtures for Formic Acid Extraction Boukroune Nadjat, Larous Soumaya, Kerboua Imene, Mahimoud Salsabil
ID 1155	comparative analysis of the vibration frequencies of a cold-formed steel model: experimental and numerical approach ibtissam dekmous, zahira bendla, naoual Djafour
ID 1162	Simulation-Based Analysis of Cache Size Influence in NDN Topologies SEGHER Meftah, Bouziani Merahi, KANDOUCI Chahinaz
ID 1166	MTPA-fuzzy DTC for Minimizing Torque Ripple in IPMSM Powertrain for Vehicular Propulsion

	Norediene Aouadj, Kada Hartani, Yousra Slaimi, Israa Tlemsani
ID 1168	Comparative study of advanced oxidation processes on the degradation of persistent industrial dye KERABCHI NASSIM
ID 1178	Impedance Techniques for Thickness Control of Platinum Layers on Nickel Substrates Chifaa ABER, Azzedine HAMID
ID 1196	Enhancing Micro-Scale Combustion Performance in Micro-Thermophotovoltaic Systems Using Full Factorial Design and Response Surface Methodology Lina Chouichi, Mohamed Said KAHALERAS, Salaheddine Azzouz
ID 1208	Analysis of the Influence of Patch Fiber Orientation on Stress Distribution in the Adhesive Selma AMINALLAH, Lamisse TAYEBOUN, Sidi Mohamed FEKIH, Hamida FEKIRINI
ID 1214	Precision characterization of straightness and angular deviations in prismatic axes using the Bryan principle Mechta Ahlem, Slamani Mohamed
ID 1217	Consensus Gain Effect on Convergence Speed and Delay Tolerance in Multi-Agent Systems Amina Khalfaoui, Sihem Kechida
ID 1218	Wavelet-Deep Learning Network for Low-Light Image Enhancement Bilal AOUIANE, Abderrahmane NAMANE, Zahia NABI
ID 1227	Impact of Superhydrophobic Surface Roughness on Air Trapping and Droplet Behavior under Electric Field sara alouache
ID 1243	Intelligent Forest Fire Monitoring via GSM Communication Network Adil BAKRI, Djamaledine Berrabah, Boumediene Khaouani
ID 1265	Numerical Analysis of Composite Materials through Python-ABAQUS Integration Mechta Ahlem
ID 1268	Influence of Soil-Structure Interaction on Inelastic Displacement Ratios in Structures on Soft Soil: Artificial Neural Networks Based Framework ADNANE BRAHMA, MOHAMED BENELDJOUZI, MOHAMED HADID, SAHRAOUI GHOUL
ID 1271	Comparative Evaluation of DWT and WPT Techniques for ECG Signal Denoising Zahia NABI, Saida DAHMANE, Bilal AOUIANE
ID 1287	Effect of notch position on the fracture energy of HDPE pipe: impact mode Nacira HAMLAOUI, kouka BOUSLAH, Mohamed Cherif Djamaa, Kamel CHAOUI
ID 1293	EMD-Based Bearing Fault Detection in Induction Motors Using Simulated Vibration Data DAHMANE Saida, NABI Zahia, MORAKCHI Mohamed Razi
ID 1296	Incidence des films plastiques sur le comportement d'emboutissage des aciers Imene Abdedaim, Billel Litouche, Elhadj Ouakdi
ID 1303	EMD-Based Bearing Fault Detection in Induction Motors Using Simulated Vibration Data DAHMANE Saida, NABI Zahia, MORAKCHI Mohamed Razi
ID 1321	Analysis of pedestrian bridge comfort under pedestrian induced loading lynda lounaci, Hocine HAMMOUM, Karima BOUZELHA
ID 1323	Fault Diagnosis in Five-Level NPC Inverters Using Backpropagation Neural Networks Abderrahmane Abdellah, Djilali Toumi, M'hamed Larbi, Mimouna Abid
ID 1378	Three Level T-type Inverter Capacitor Voltage Balancing Sofiane BRAHAMI, Ali BERBOUCHA, kamel DJERMOUNI, Said AISSOU, Elyazid AMIROUCHE, Kaci GHEDAMSI
ID 1385	Study of CMOS Circuit Performance Under Varying Temperature and Channel Dimensions remili fatima, Abdelhalim Brahimi, Nacerdine Bourouba, Okba Saidani, Abderrahim Yousfi, Amine Harhouz
ID 1406	Effect of Shape Ratio on the Thermophysical Properties and Thermal Behavior of Nanofluids NESRINE RACHEDI, Maiza imad
ID 1419	Constituent Materials Impact on the Characteristics and Performance of a Single-Sided Linear Induction Motor AISSA BENSEHILA
ID 1420	Palmprint Recognition Systems Using Transfer Learning Techniques: A Comparative Study Kheira Fairouz BEDJEKINA, Bilal ATTALLAH, Youcef BRIK, Cheyma NADIR
ID 1426	Enhanced Speed Control of PMSM Using 2-DOF-PI based Artificial Neural Network Controller tahar nouaoui

ID 1430	Three-Dimensional Investigation of Active Control of Corner Stall in Axial Compressors Hayette DJEDAI, Mokhtar AOUISSI
ID 1445	Towards a Hybrid Approach for the Dynamic Assessment of Thermal and Toxic effects from Boil-over in Petroleum Storage Facilities Imane Aila, Samia Chettouh, Djamel Haddad
ID 1814	Effets des traitements thermiques sur les caractéristiques microstructurales et électrochimiques de l'acier 304 soudé ZIDANE KHEIRA , SEDDIKI HAYAT and BOUAKSA FETHIA
ID 1815	Encapsulation du Diclofénac Sodique par Gélation Ionotropique en Utilisant la Méthodologie Plan Expérience Souheila TOUATI, Rouquia Laghrib, Hanadi Laraib
ID 1816	Analysis of defects in enameled sheets from national industrial production Fatiha keraghel
ID 1817	Structural Behavior of Self-Compacting Concrete Incorporating Recycled Aggregates NADOUR Younes , BELABBAS Oualid , BOUZIADI Farid , HAMRAT Mustapha , BOULEKBACHE Bensaid
ID 1818	Micro-Defect Detection in Transparent Ceramics via Transmission Interferometry Meziane Rahima, Abdelbaki Cherouana, Sofiane Bouheroum and Benaissa Salim
ID 1819	Numerical analysis of load transfer mechanisms in geosynthetic reinforced embankments overlying localized weak zone Fouad Berrabah and Sadok Benmebarek
ID 1820	Technical Analysis of Self-Compacting Concrete Incorporating Marble and Limestone Powders Ahmed Ragaa, Kamel Hebbache , Cherif Belebchouche
ID 1822	Influence of Black Silicon Morphology Combined with FSF/SiO₂/SiNx Layers on Optical and Electrical Properties for Photovoltaic Applications Nabil Khelifati
1823	ETUDE DE LA FIXATION DU Ni 2+ ET Cr 3+ PAR LA RESINE ACIDE PARA-AMINOBENZOIQUE-FORMOL. MAHI Ahmed
ID 1447	Effect of stress triaxiality on damage Initiation in the DC04 metal steel Mohamed Lamine Mechenene, Mohamed Zaaf, Nadjoua Matougui, Oualid Chahaoui
ID 1452	Application de la méthode des éléments finis hiérarchiques à l'analyse vibratoire d'une plaque composite à rigidité variable (CSRV), composée des fibres curvilignes (hyperboliques) Amine Bendahmane, Djamel Bennacer
ID 1455	Analyse vibratoire d'une plaque composite à rigidité variable (CSRV), constituée des fibres paraboliques par la version p de MEF. Amine Bendahmane, Djamel Bennacer
ID 1456	Influence de l'interaction fluide structure sur le comportement vibratoire d'une plaque composite à rigidité variable (CSRV) immergé dans un fluide. Amine Bendahmane, Djamel Bennacer
ID 1457	Optimization of Magnetic Field Strength for Maximum Heat Transfer in Ferrofluid-Based Cooling Systems Abdelaziz Boumaiza
ID 1458	Engineering Efficient Fault Detection: A Data-First Approach to YOLO Model Selection Ibrahim Chakkem, Boubakeur Zegnini, Mohamed Ayoub Sahnoune
ID 1480	The influence of the filler rate (CaCO₃) on the mechanical properties of HDPE Houria SACI, Salima BOUTERAA
ID 1498	Modélisation du contact mécanique soumise d'un mouvement oscillatoire de faible amplitude SEHOUL Mohammed, SEHOUL Baghdad, BENDAHANE Khaled, BOUGUENINA Othi

ID 1506	Hyperparameter-Optimized Models for High-Accuracy Transmission Line Fault Classification Zakaria Belloula
ID 1529	Comparative Simulation Study of a Trapezoid-Type Stick-Slip Piezoelectric Linear Actuator Using Right Circular Flexure Hinge Naima Touati
ID 1535	Ensuring stability in construction through high-quality concrete. sara NEDJAH
ID 1547	Fuzzy-Based Event-Triggered Control under Deception Attacks Djedjiga Brai, Fayçal Bourahala, Mohamed Rouamel, Ahmida Zahir
ID 1559	Impact of block model dimensions on mineral resources estimation Hassina Foufou, Tayeb Serradj
ID 1593	Detection of stator short circuits in a self-excited asynchronous generator for wind power conversion systems FARES BELYNDA
ID 1598	Deep And Handcrafted Feature Fusion System For Diabetic Retinopathy Classification Abderaouf Moustari, Youcef Brik, Bilal Attallah
ID 1608	Investigation of Terminal Velocity of Falling Liquid Droplets in Water bochra djoudar, Mebarki Oussama, Mohamed Abdelouahab
ID 1614	 Bouricha Nahla, LOUNIS MOURAD, MENAD MOHAMED
ID 1620	Performance Evaluation Of Fractional Order Sliding Mode Control For Induction Motor Dalal Zellouma
ID 1622	Smart Elevator Prototype Based on Arduino and RFID Mounir KRAZDI, Ikram HADDOUCHE, Abdelkader GARMAT
ID 1624	Effects of Distilled Water and Condensate Additions on the Viscosity and Flow Behavior of Algerian Crude Oil abdel hakim Kherief nacereddine, Omar Kholai
ID 1631	A DC Motor Drive Based on Single-Phase Full-Wave Rectifier with Cascade Speed Control Younes Siradj, Elhachemi Mammeri
ID 1638	Simulation of Al/GeSn/Al photodetector for short wave infrared applications. Abdelaziz Lazzaz, Khaled Bousbahi, Mustapha Ghamnia
ID 1664	Electrocoagulation as a Sustainable Pre-treatment Technique for Seawater Desalination: A Parametric Study. Abla ZOUAI, Souad BOUAFIA, Yasmine AIT OUAISSA, Malika CHABANI, Roumaissa CHOUIEB
ID 1666	Fractional-Order Simplified Super-Twisting Algorithm for Multi-Rotor Wind Power Systems Habib Benbouhenni, Hamza Gasmi
ID 1667	Optimized Control of a Mobile Manipulator Using a Fractional-Order PID Controller and Particle Swarm Optimization Malak MAOUCHE, Abdelkader GARMAT
ID 1683	Polymer Nanocomposites for 5G mmWave Applications: A Comprehensive Review Mohamed Zellat
ID 1692	Broadband Terahertz Metamaterial Absorber with Polarization-Insensitive and Angle-Stable Performance ghada mebarki
ID 1695	Improving Thermal Efficiency in Buildings Using Solar Chimneys and Mixed Convection Strategies KALFALI Mahmoud
ID 1702	2D Modeling of a Planar Permanent Magnet-induced Eddy Current Braking Device Bouchra Hania DAOUDI, Youcef OUAZIR, Mohamed MESSADI
ID 1715	Robust Super Twisting Sliding mode Control for Chattering reduction of Asynchrone Double Star motor DSIM Hadji Chaabane
ID 1717	Dynamic Precision Enhancement of 3-DOF Robotic Manipulator Using Computed Torque Control Nabil ISSAAD, Abdelkader GARMAT, Kamel GUESMI
ID 1757	Development of a Prototype for Automatic Date Marking on a Conveyor Line

	Rahma BENAZIZ, Ahlem BOUNABI, Abdelkader GARMAT
ID 1758	Ultra Compact Pass-Band Filter, Based On HMSIW Technic, Designed for mm Waves Applications Khier BENDERRADJI, Idris MESSAOUDENE, boualem HAMMACHE
ID 1765	An Orthogonal Approximate Discrete Tchebichef Transform for Image Coding in WVSNS zidani nesrine, Doghmane Nouredine, Bouaziz Houda
10:00– 14:00	Online Session wednesday, April 11 th , 2025
Room 6	Mechanical and Civil Engineering meet.google.com/bki-hsic-jwk
Online Session Chairs:	
ID 377	Numerical investigation of the first hydrodynamic and thermal instability appearance in a horizontal Taylor-Couette system under differential heating Ikram Redjaimia, Sofiane Touahri, Toufik Boufendi
ID 381	Amélioration de la perméabilité des sols des berges du barrage poids par injection de coulis cimentaire. KHEDIM Imane
ID 389	Numerical Analysis of PCM Melting Behavior in a Confined Enclosure with a Heated Vertical Wall Using COMSOL Multiphysics Ezzine Bennour, Ahmed taibaoui, Said Azzi, noureddine kaid, cheikh kezrane
ID 418	Numerical simulation of volatile organic compounds (VOCs) diffusion in building materials NAIMA FEZZIOUI, Méberika Benyamine, Smail Boumedyen
ID 428	Free vibration analysis of nanocomposite doubly curved shells reinforced with carbon nanotubes using a new integral high-order shear deformation theory Mohammed Houssein Eddine Guerine, Zakaria Belabed
ID 445	Lane Keeping Fault Tolerant Control Based on Nonlinear MPC Mohamed Achraf Senoussi, Aimen Abdellah Bouaïss, Bacha Aymene, Mohamed Boumahrez
ID 490	Modeling the Flexural Bearing Capacity of an Off-axis GFRP Waste-Based Core Using Hashin Damage Criteria Mohammed MEDDOUR, Souad AIT TALEB, Abdelmadjid SI SALEM
ID 494	Seismic Isolation Design Using Lead Rubber Bearings: Application to Algerian Code (RPA99'03) Standards BRAHIM ATHAMNIA, Mohamed Zohair KAAB
ID 495	Seismic Behavior of Base-Isolated Irregular Structures with Variable Lead Rubber Bearing Damping BRAHIM ATHAMNIA, Mohamed Zohair KAAB
ID 580	Effect of different activations of Supplementary Cementitious Materials (SCMs) on the rheological properties of quaternary mortars Hichem BERKAK, Ali ABBACHE, Moustafa Habib CHENAFI, Zoubir MAKHLOUFI, Madani BEDERINA
ID 593	Analyse des régimes de fréquences propres d'une nanopoutre en époxy graphite sous l'effet d'une déformation transversale hamzi souad
ID 600	Control Design of Takagi-Sugeno fuzzy systems: Conservatism reduction using line integral Lyapunov function rabiaa houili, Mohamed Yacine Hammoudi, Marah Bacha, Abdenacer Titaouine
ID 613	Impact of Graphene on Microelectronic Component Lounas BELHIMER, Nadia Bouaziz, mohamed Djouder
ID 633	Numerical Simulation of the Influence of Cohesive Length on Crack Propagation by Using Fredholm Integral Equation Ikram Slamani, Hicheme Ferdjani

ID 641	A Novel Higher-order Shear Deformation Theory for Predicting the Bending and Free Vibration Responses of Thick Isotropic Plates DJIDAR Fatima Zohra, DERRAS Abdelhak, HEBALI Habib
ID 642	A Novel Refined Plate Theory for the Free Vibration Response of Functionally Graded Plates Resting on a Winkler–Pasternak Elastic Foundations DERRAS Abdelhak, DJIDAR Fatima Zohra, HEBALI Habib
ID 696	Study on the Buckling Response of Functionally Graded Plates Employing a New Four-Variable Refined Plate Theory HEBALI Habib
ID 704	Numerical Modelling of RC Structures Considering Soil Variability and Static Soil-Structure Interaction Kamel BEZIH, Mohamed DJANENE, Mohamed LAOUCHE
ID 727	Comparative Study of two finite elements performance for Pinched Hemisphere Shell Analysis Yasmine Merah, Djamal Hamadi, Kaddour Mouattah
ID 765	Comparative Analysis of Turbulence Models for Optimized Performance in Shell-and-Tube Heat Exchangers with Circular and Elliptical Tube Geometries sara SAHRANE, Slimane NIOU
ID 825	Numerical Investigation of Flow Separation and Turbulence in Laval Nozzles Using CFD Merdassi Mustapha, Aouissi Mokhtar
ID 1026	Impact of Glass Fibers on Desiccation Cracking in Clayey Soil Afaf Zeroual, Amina MASMOUDI, Ahmed BOUAZIZ, Sadok FEIA, Abdelali DADDA
ID 1075	Durability assessment of geosynthetics in aggressive environments: Insights from accelerated aging tests Linda Naga, Mohamed CHIKHOU, Lynda DJERBAL
ID 1108	Étude numérique de l'influence de la géométrie du mur sur le comportement des murs en sol renforcé par géosynthétiques Ali Farik, Abdelfattah Aouadj
ID 1149	Investigation of Ecological Concrete for enhanced Thermal Insulation: a literature review. djahida cherrallah, nadia lakreb
ID 1219	Eco-Efficient Shear Connectors for Steel-concrete Composite Structures: Reinforcement Design in C-Shaped Perforated Angles Nafissa Sakhri, Abd Nacer Touati Ihaddoudène, Messaoud Saidani, Da Costa Neves Luis Filipe
ID 1316	L'Étude expérimentale du renforcement biologique des sols sableux : Application aux sols affaissables. Approche en laboratoire et sur site. Meriem Selmi, Nassima Bakir, Sadok Feia
ID 1324	Application de l'intelligence artificielle pour la prédiction de la flèche des poutres métalliques AbdelMoncef Hamedi
ID 1368	Impact de la variation de l'épaisseur et de la forme du gousset sur le comportement des assemblages en profilés formés à froid abdenour serdoun, nadir boumechra, abdelghani missoum
ID 1537	Effect of superplasticizer type on the mechanical and hydration properties of sulfate resistance Portland cement Kaci Chalah, Abdelbaki Benmounah
ID 1580	Numerical Modeling for Seismic Response Prediction of Pumice Masonry Structures: A Validation Study Boudjamaa roudane, Khedidja Himouri
ID 1748	Revue de littérature sur les matériaux de substitution au ciment pour des applications durables en construction Meriem Ouchenane, Samy Mezhoud
ID 382	Mechanical Behavior of Kevlar/Epoxy Composite Laminates Adel DELIOU
ID 407	Experimental Evaluation of Stiffness and Damping in Carbon and Hybrid Carbon-Jute Composite Plates Rabab Zaoui, Hamza Mechakra

ID 430	Genetic Algorithm Code to optimize the geometric parameters of composite laminate Hanane KHOUAS
ID 497	Impact de l'accélération sismique sur la réponse dynamique du barrage en terre de Ouarkiss Tarek SEGHIR, Ali FOURAR, Ammar DEFFAF, Mehdi SEGHIRI, Abdelatif ZEROUAL, Mehdi AMIOUR
ID 515	Review of pathologies of open-pit mining works, case study of aggregate quarries in the wilaya of Sétif Anissa MAHLEB
ID 547	Seismic Resilience of bridges MOHAMMED ABDELLAOUI, mohamed badaoui, Mahmoud bensaibi, said koriga
ID 587	Amélioration des caractéristiques physico-mécaniques des bétons à hautes performances par l'ajout du sable de dune broyé Noureddine AGHA, Abdelkadir MAKANI, Ahmed TAFRAOUI, Fatima Zahra RENNANI
ID 590	CONTRIBUTION DES FINES DES GRANULATS RECYCLES ISSUS DE DEMOLITION AUX PERFORMANCES MECANQUES DES BETONS AUTOPLAÇANTS Abdelhafid Sadok, Ahmed Taфраoui, Abdelkadir Makani
ID 848	Fatigue crack growth modelling within very high cycle range of the high-strength Chromium steel Abdelhak Nehila, Abdelmalek regad, Mohamed IKHLEF CHAOUCH, Wei Li
ID 850	Design and Performance Evaluation of Micro-Blade Configurations for Flow Control in Axial Compressor: Part II Oussama Hachelfi, Riyadh Belamadi, Naouam Boudinar
ID 857	Numerical simulation of aiding and opposing double diffusive convection under different directions of uniform magnetic field Hamza BENNICHE, Said BOUABDALLAH, Aissa ATIA
ID 867	Numerical study of the bearing capacity of shallow foundations adjacent to sloping grounds Mohamed El Hadi ZOBIRI, Cheima Bouraoui, Mohamed Saddek Remadna
ID 871	Seismic Soil-Structure Interaction: State-of-the-Art Modeling Approaches and Their Implications for Building Design Souheyla Saddouki, Mohamed Saadi, Djarir Yahiaoui
ID 873	Comparative Study of Fluid Viscous Dampers and Shear Walls for Seismic Optimization of Reinforced Concrete Buildings CHAFAI Hamid, TELMAT Djallal Eddine, IHADDOUDENE Abd Nacer Touati
ID 877	Free vibration analyses of antisymmetric laminated graphene reinforced functionally graded plates Nabila Ahlam, Yasser, Mourad, Mouloud Boukhalkhal, Chiker, Bachene, Guemana
ID 882	Validation of Finite Element model for FRP-Retrofitted Beam-column Joint Using the Grooving Method BOUROUMANA Issam, NAFA Zahreddine, NIGRI Ghania
ID 897	Sustainable Cement Development: Cenospheres Integration in LC3 Self Compacting Mortars Systems Slimani Yasmine
ID 910	Effect of Rough Minor Bed and Positive Slope on Hydraulic Jump Relative Length: An Experimental Study in a Composite Rectangular Channel Ibtissam HERRI, Samir KATEB, Ali GHOMRI, Djamel BESSER, Haroun KHECHIBA
ID 917	Geometric Optimization of Internal Fins for Improved Melting Performance of Nano-Enhanced PCM in Thermal Energy Storage Systems. Benyahia ilias, aissa abderrahmane, Mellah Hocine
ID 923	Mechanical behaviour of mortars incorporating brick waste at elevated temperatures Houssam Eddine Abdelli, Salim Kennouche, EL Mouatez Billah Boudjellal, Abdelhamid Karouche, Seifeddine Tabchouche
ID 935	Optimiser les performances du béton léger grâce à la valorisation des déchets industriels. Lylia Meziane, Ahmed Ziregue, Belkacem Ziregue, Youcef Ghenrouti
ID 947	Modelling of three-dimensional beams using the 8-node hexahedral element: Abaqus implementation Lazhar Derradji, Toufik maalem, Tarek Merzouki
ID 971	In-Plane Compressive Behavior and Failure Mechanisms of GFRP Laminates

	Amina MASMOUDI, Afaf ZEROUAL, Ahmed BOUAZIZ, Abdelhak KHECHAI, Yassine ADIMI
ID 985	Comparaison des modèles analytiques prédisant la résistance à la compression des polymères renforcés de fibres de carbone « PRFC » nadia, sarra, Riad, Mohammed diboune, Sendjasni, Benzaid, Berradia
ID 1016	A Numerical Modeling of Large Penetration of Pile in Soils Using a Friction-Contact Formulation Ihab Bendida Bourokba, Nazihe Terfaya, Abdelmadjid Berga
ID 1020	تأثير المواد على تخفيف الضغط في بطانات الأطراف الاصطناعية السفلية AICHOUBA adda cherif, MOULGADA Abdelmadjid, GUERCHOUH Nawel
ID 1022	Manufacturing Construction Materials from Industrial Waste: Towards Sustainable Valorization of Residues Sara Imane ZEGHINA, Walid KHELIFI
ID 1045	CFD Analysis of Paddle Impeller Stirred Tanks: Influence of Blade Height on Mixing Performance Ilhem Aicha AZZOUZ, Youcef KAMLA, Zied DRISS, Ghizlene Rahma RENNOU
ID 1048	Free Vibration Response of Cracked Composite Plates: A Comparison Between Conventional and CNT-Reinforced Structures Samah Maoudj, Rachid Tiberkak
ID 1062	Revue scientifique sur le développement de la technologie de chauffage de l'acier sous vide suivi d'une trempe à l'air haute pression Noureddine< Kacimi, Abdelmalek Regad
ID 1072	Regression Models for Predicting Shear Strength Contribution of Fully-Wrapping FRP in RC Beams Zahira Sadoun, Riadh BENNAI, Hassene AIT ATMANE
ID 1077	Comportement mécanique d'un tronçon en Té avec 4 boulons par rangée HAOUAS Samira
ID 1083	Numerical Evaluation of Crack Propagation Using the J-Intégral in Composite Plates with Circular Holes under Mode I Loading Regad Abdelmalek
ID 1120	Leveraging Knee Biomechanics and Deep Learning for Improved Osteoarthritis Screening KHADIDJA MESSAOUDENE, KHALED HARRAR
ID 1125	Analysis of Soil-Pipe Interaction: Estimating the Winkler Modulus of the Supporting Soil Chahrazad BACHA, Meriem Zoutat, Mohammed Mekki
ID 1174	Modelling the Influence of Injection Modes and Hydrodynamic Forces on Particle Retention in Porous Media Kheira Bouragaa, Lyacine Bennacer, Nasre-Dine Ahfir
ID 1183	Numerical Analysis and Thermal Performance Assessment of a Heat Exchanger for Compact Energy Applications ABDELFATAH MARNI SANDID, Bourhane Bouhabel, Mahmoud Makhoulfi, Fethi Moussa Boudjema, Salim Eutamene
ID 1184	Numerical Study of Heat Transfer Enhancement in a Cross-Flow Heat Exchanger Using semi elliptical fins bourhane bouhabel, Abdelfatah MARNI SANDID, Zouhair aouissi, Ilyes Abacha, Salim Eutamene
ID 1195	MANUFACTURING OF CONCENTRIC HDPE-100 CYLINDRES TO ACCESS MECHANICAL PROPERTIES DISTRIBUTION THROUGH WALL THICKNESS SOUIMIA BOUCHAKHCHOUKHA, LATIFA ALIMI, KAMEL CHAOUI, YOUSRA BOUGHAZI, YOUNES MENAIL
ID 1231	Biomechanical Modeling of An Osteoporotic Femur with and without Implantation of a Total Hip Prosthesis Benkouachi Narimane, zagane mohammedelsallah, moulgada abdelmadjid
ID 1244	Flexural performance of sandwich composite structure :Density and Cell configuration effect . Marwa Barberis, Layachi Boussouar, Yazid Fizi, Benoit Vieille
ID 1248	Investigation of Stress Response in the Beni Bahdel Dam Due to Transient Interaction with Its Rock Foundation Daoudi Mohammed Habib, Tahar Berrabah Amina
ID 1275	Multivariable Linear Regression Analysis for Elastic Modulus Prediction in Rubber-Modified Cement Composites: Balancing Model Accuracy and Overfitting Risks

	Djallal Eddine TELMAT, Hamid CHAFAI, Madina KILARDJ
ID 1307	Evaluation of the safety coefficient of an earth dam as a function of foundation depth and seismic zones. BELAZOUZ LYNDIA, BOUZELHA KARIMA, HAMMOUM HOCINE
ID 1310	Phase-Field Modeling of Quasi-Static Crack Propagation. Azzaz Torkia, HACHI BrahimElkhalil
ID 1325	Effet synergique de la poussière de four à ciment (CKD) et de la poudre de verre (PV) sur les performances du mortier autoplaçant : approche par plan composite central (PCC) Redha Hammouche, Cherif Belebchouche
ID 1328	Investigation of Intermittent Microwave Drying of Wood Materials Marwa BEDJAOUI, Salaheddine AZZOUZ, Soufien AZZOUZ
ID 1351	Évaluation de l'applicabilité du modèle Concrete Damage Plasticity (CDP) à la maçonnerie Said Idekki, Souad Ait Taleb, Abdelmadjid Si salem
ID 1359	Rapid Estimation of Secondary Creep in Soft Clays Using Machine Learning Hachimi Dahhaoui
ID 1361	Pressure effect on Thermal Contact Resistance (TCR) CHERIET Rahmouna, BENSAAD Bourassia, BOUHADJELA Fatiha, BELHENINI Soufyane
ID 1448	Biomechanical Analysis of Contact and Shear Stresses in Transfemoral Prosthetic Liners Using Finite Element Methods Guerchouh Nawel, Moulgada Abdelmadjid, Sahli Abderahmane, Aichouba Adda Cherif, Zagane Mohammed El Sallah, Boudjemaa Ismail, Ghouari Lahcene
ID 1490	Optimisation mono et multi-objective des paramètres de coupe lors de l'usinage de l'acier AISI D2 en utilisant la lubrification MQL ALLAL Mohammed, BELHADI Salim, YALLESE Mohamed Athmane
ID 1511	Heat transfer during melting of phase change material inside a spherical capsule Fatiha Chebli, Farid Mechighel
1516	NUMERICAL MODELLING OF CFRP REINFORCED RC BEAMS ANCHORED WITH INCLINED FRP STRIPS Abderrahmane Abdessalam, Tarek Metrouni
ID 1523	The Influence of the Inter-disc Cavity Inclination Angle on Cooling Efficiency Aya Rehab Bekouche, Riyadh Belamadi, Djihane Mazouz
ID 1542	Numerical evaluation of composite patch effectiveness using XFEM and CZM Mohammed BENYETTOU, Kouider Madani, Mohammed Walid Harmel, Kamel Zouggar, Sarra Mama Nor El houda Boussahra
ID 1557	Material Influence on the Dynamic Response and Flexibility of Cable-Driven Continuum Robots Djedili AMEL
ID 1558	An Automated Framework for Optimizing 3D Concrete Frame Structures According to RPA2024 Nassim Djedoui, Nesreddine Djafar-Henni
ID 1560	Kinematic and Control Analysis of a Three-Section Dual-Cross Continuum Robot Djedili AMEL, Amouri Ammar
ID 1595	Effect of Composite Substrate Properties on Von Mises Stress Distribution in the Adhesive of Aluminium-Composite Joints TOUATI BENALI ABDELAZIZ, ACHACHE HABIB
ID 1636	Optimizing Water Absorption and Workability for new bio-based material : Barley Straw-PCM Gypsum composite . KHADIDJA KEHLI, BELKACEM BELHADJ
ID 1637	Entropy Generation Due To Mhd-nanofluid Mixed Convection Within a Lid-Driven Cavity Shaped L Chihab Eddine BRAHMI, Mouna MAACHE, Nourredine BELGHAR, Mahmoud KALFALI
ID 1644	Mhd-nanofluid Mixed Convection inside a Lid-Driven Cavity Shaped L Chihab Eddine BRAHMI, Mouna MAACHE, Nourredine BELGHAR, Mahmoud KALFALI
ID 1646	Numerical study of the vibration of steel beams under temperature conditions AFAF TOAIBA
ID 1649	Performance of Three-Dimensional Finite Elements for the Analysis of Stiffened Shell Structures

	Maria legouirah, Djamal Hamadi, Abdulrahman A-Nadhari
ID 1671	Synthesis of an Eco-Material Geopolymer Based on a Natural Waste Mohamed Salah MOUAISSA
ID 1711	CFD Analysis of Cooling Configuration Optimization for High-Pressure Turbine Vane. Djihane MAZOUZ, Salaheddine AZZOUZ, Aya REHAB BEKOUICHE
ID 870	Application of the Discrete Kirchhoff-Mindlin Quadrilateral (DKMQ) Element for Free Vibration Analysis of Thin and Thick rectangular Plates coupled with stationary fluid DJELLOUL BENTRIA, RASSIM BELAKROUM, Fodil Hammadi

10:00– 14:00	Online Session wednesday, April 11th, 2025
Room 7 	Metallurgical and Materials Engineering meet.google.com/cvf-eafo-epa

Online Session Chairs:

ID 391	Ferroelectric and Piezoelectric Properties of Sm-Doped PZT Ternary Ceramics for Advanced Functional Applications Ahlem Ksouri, Abdelhek Meklid
ID 423	Thermal, Optical, and Structural Analysis of LDPE Modified with Copper and Zinc Additions Jihad GUENDOUZ, Mohamed BELHAMIANI, Wahid OUDAD
ID 431	Influence of salinity on the corrosion resistance of an austenitic stainless steel AISI 304 L. Djedjiga Ben Abdesselam, Youcef Hadjali, Belkacem Korichi, Nacer Zazi, Fatah Hellal
ID 531	Analyse de l'impact environnemental des opérations d'abattage dans la mine de phosphate de Kef Essnoun, Nord-Est de l'Algérie. Abdelhak TABET, Toufik Batouche, Oussama ZERZOUR, Halima Saadia ZANOUDA, Ali Ahmed Benyoucef, Kamel MENACER
ID 537	Predicting Perovskite Structures: An AI-Powered Approach Using PCA and RFR touati soundous, Hebboul Zoulikha, Benghia Ali
ID 596	Recovery of Iron, Cobalt, and Nickel from Metallic Hydroxide Sludge via Selective leaching and Precipitation Chahrazad AMRANE, Afaf LALMI, Sabrina TAMERSIT
ID 621	High-Resolution Crack Detection and Localization in Stainless Steel Structures Using Rayleigh Wave EMAT Houssam Boughedda, Hemza Gheddar, Sid-Ahmed TOUIL
ID 625	Surface Defect Detection in Metals Using YOLOv11n: A Computer Vision Approach Based on Artificial Intelligence Bouhelassa Yassine, Benazzouz Younes
ID 652	Optimisation géométrique des joints collés : effet du biseautage et du bourrelet d'adhésif sur la résistance mécanique Rachid Hadj boulenouar, Nouredine Djebbar, Benali Boutabout, Hasna Hadj boulenouar
ID 738	Electrochemical behavior of porous TiNi50-xCux alloys zineb SADAoui, Latifa Kahloul, soumaya Meddah
ID 757	Influence of Electrolyte Composition on the Anodization of AA5083 Aluminum Alloy. Meryem ACILA, Loubna MERABET, Feyrouz NAFA
ID 806	Corrosion Resistance of Zinc and Copper Coatings Obtained by Thermal Spraying : A Comparative Study Nesrine KHERBA, Sarah Boudjit, Younes Rassim, Mohand amokrane Bradai, Giuseppe pintaude
ID 831	An approach to reliability for high-density polyethylene gas pipes under aggressive ageing phenomenon Khaoula Berkas, Sabrina Mammeri, Kouka Bouslah, Kamel Chaoui, Abdelaziz Amirat
ID 1055	Effet du champ magnétique sur les propriétés anticorrosion des couches d'oxyde obtenues par anodisation de l'alliage d'aluminium 5083 Feyrouz NAFA, Hakim BENSABRA, Jean Paul CHOPART
ID 1056	Experimental study of the effect of resistance spot welding parameters on the mechanical properties of heterogeneous steels.

	Fouad Ternane, Mustapha Benachour, Fethi Sebaa
ID 1094	Multi-Objective Optimization of GTAW Dissimilar Welding of Stainless Steels Using Grey-Based Taguchi Method Ayman KHALED, Youcef REDJEB, Ahmed KELLAI, Abdeldjebar HADJI
ID 1107	Optimization of Hot and Cold Rolling Process Using Design of Experiments: Hydrodynamic Modeling, ANOVA Analysis DERREZ MIMOUNE, Traiaia Noura
ID 1119	Experimental Investigation of Fracture Toughness in Aluminum Alloy AA3003 Welded by Friction Stir Welding Using the Essential Work of Fracture Method Hichem MEBARKI, Abdelmalek Regad, Hamida FEKIRINI
ID 1132	Characterization of Friction Welded Joints between AA 2017A Aluminum Alloy and AISI 316L Stainless Steel Fares Khalfallah, Laid Mahdi, Elhadj Raouache, Razik Benderradji
ID 1161	Mechanical properties of Fe-C-Mn-Si-Al alloy steel Alimi Latifa, Boulkra Mohamed, Boukhezar Skander, Sehab Nadjette, Sassane Nadjette, Oudjertli Salah, Manail Younès, Chaoui Kamel
ID 1241	Surface treatment of metal alloys by physical vapor deposition (PVD) Salim ABDELLI, Djamel AMARI, Youcef KHELFAOUI, Khaoula RAHMOUNI, Nadia SAOULA
ID 1279	Modeling the ultrasonic wave's velocity dependent on temperature-porosity in metallic materials Farah Hamdi
ID 1288	First-Principles Insights into the Structural, Electronic and Thermoelectric Properties of GaNi_{1-x}TaxSb Half-Heusler Alloys Bouchentouf Mohamed amine
ID 1395	Mineralogical and Elemental Characterization of Phosphate Tailings from Djebel Onk Rim Amata, Mohamed Bounouala, Amar Amata
ID 1402	Investigation of Alternative Substrates in EBT3 Film Electron Dosimetry Asma Farah, Rebiha Labbani
ID 1428	Blood dynamics and complex properties of flow within atherosclerotic arteries with varying hematocrit. Badr eddine BEHIR
ID 1431	First principal investigation of structural, electronic and magnetic properties of transition metal oxides alloys Kalthoum Klaa, Yacine Benguerba, Mohamed Bououdina
ID 1550	Performance analysis of composite patch repairs under the effect of the ageing process Mohammed Walid Harmel, Kamel Zouggar, Mohammed BENYETTOU, Kouider Madani, Sarra Mama Nor El houda Boussahra
ID 1554	Sustainable PHBV Biocomposites Reinforced with Spanish Broom Fibers: A Green Alternative for High-Performance Applications Amel ABALACHE, Idris ZEMBOUAI, Naima TOUATI, Lynda ZAIDI, Stephane BRUZAUD
ID 1562	The effect of a composite patch on the behavior of mixed-mode cracks Sarrah Mama Nor El Houda Boussahra, Kouider Madani, Mohammed BENYETTOU, Mohammed Walid Harmel, Kamel Zouggar
ID 1588	Insight view of Y₂MnAl Heusler material via DFT calculations: A study on structural, electronic and magnetic properties Chahrazed Zouaneb
ID 1627	Numerical Simulation of Laser Shock Peening on A357 and A2024-T351 Aluminum Alloys: Analysis of Compressive Residual Stresses Naoum Halima, Fekirini Hamida, TAYEBOUN LAMISSE, MEBARKI HICHAM
ID 1677	Impact of porosity defects on the thermomechanical performance of ceramic/metal interfaces in multilayer structures Ahmed Mehdi Zaoui
ID 1755	Effect of Basicity on Thermal Behavior of Iron Ore Powder Nassima Chebel, Djamel Nettour, Mohamed Chettibi
ID 1127	HOMOGENIZATION PROBLEM OF TWO WEAKLY CONNECTED MATERIALS

	DEHAMNIA Abdelhakim
ID 388	Rare-Earth Doped Oxyfluoride Glasses for X-ray Imaging Applications Kinoucha Khalida
ID 441	Electrochemical Characterization of Activated Ni-Zn Alloy Coatings for the Hydrogen Evolution Reaction via Water Electrolysis Sofiane Latreche, Naima Boutarek- Zaourar, Faouzi Messaoud, Samir Mansour
ID 503	Comparative Study of the Effect of Coolant, Water, and Distilled Water on the Corrosion of AlSiMn Aluminum from an Automotive Radiator YOUCEF HADJ-ALI, BELKACEM KORICHI, DJEDJIGUA BENABEDESSELAM, NACER ZAZI
ID 529	Effect of milling time on Crystalline Disorder and Magnetic Performance in TiFe Alloys Boutheina Beldi, hayette Saifi
ID 569	Fatigue Behavior of Multifunctional Composites with Embedded Metallic Inserts: Influence of Insert Thickness Imene BACHIR BEY, Fatiha SI AHMED, Samir Mansour
ID 616	Assessment of Hardness in ZnAlCu/SiC Homogenized Composite Faiza Lourdjane
ID 616	Assessment of Hardness in ZnAlCu/SiC Homogenized Composite Faiza Lourdjane
ID 842	Study of the structural, electronic, Magnetic and optical properties of NaSrXO (X=Ge,Si) Quaternary Heusler alloy: A first principal investigation Sihem Fakhr Dine, Wiam Maafa, Charef Abbes, Samir Charef, Abdelkader Boukortt
ID 911	From synthesis to Simulation: Experimental and SCAPS-1D simulation of ultrasonic spray pyrolyzed Cu₂ZnSnS₄ thin films. Widad Menadi, Salim Kermadi, Lyes Zougar, Samira Sali
ID 932	Experimental Optimization of Lanthanum(III) Extraction via Cloud Point Method Using C13E10 Non-Ionic Surfactant SEFROU Zeyneb
ID 962	Fretting Fatigue Behavior Study of a Bi-Material Bolted Joints (Steel-Aluminum) CHERIET Nour El houda, BOUCHOUICHA Benattou, BENGUEDIAN Mohamed
ID 1018	Design of ku band substrate integrated waveguide coupler Rahali bouchra
ID 1110	Computational Study of Novel Quaternary Heusler Alloys for Spintronic Devices. Wiam MAAFA, Charef ABBES, Hanane SAIB, Abdelkader BOUKORT
ID 1177	the influence of heat treatments on casting defects of the AlSi13 alloy intended for industry noura traiaia, abdennacer lemmoui
ID 1189	Using Self-Propagating Combustion to Produce High-Purity Silicon Lamia DARSOUNI, Saida HAOULI, Amina GRAIRIA
ID 1194	Mechanical and Non-Destructive Evaluation of Rotary Friction Welded Joints between 316L Stainless Steel and A60 Steel Benfredj Amal, Raouache Elhadj
ID 1199	Fault detection and isolation of discrete event systems industrial Ahmed Khalil Moussaoui Ahmed Khalil Moussaoui Moussaoui, HIRECHE SLIMANE, HABBAB MOHAMED
ID 1233	Analysis of the Mechanical Behaviour of Composite Materials amel hammouya, ala djaariri, Ouail bekhouché, Rachid CHAIB
ID 1240	Ultra-Compact and High-Speed All-Optical OR/NOR Logic Gate Based on Nonlinear Photonic Crystal Ring Resonator Switching charik khalissa
ID 1266	Fatigue cracking in deep roller burnished an Al 2024 Alloy Selma BELABEND, Hamid Hamadache, Seif eddine Bougoffa, Fathi Gharbi
ID 1273	Surface Roughness Optimization Using a Custom-Designed Burnishing Tool in Orthogonal Ball Burnishing Selma BELABEND, Hamid Hamadache, Ouahiba Taamallah, Nacer Mokas
ID 1338	PMMA in dentistry: mechanical properties, biocompatibility and clinical innovations BENDELHOUM Zineb, MAHI Rawda, AZZOUNI Imene, BOUCHAOUR Mama

ID 1350	Uniaxial Compression-Based Cold Forming of Powders: Evaluation of Compressibility Coefficient Souad Meftah
ID 1442	COMPARATIVE STUDY OF THE ELECTRONIC AND OPTICAL PROPERTIES OF THE COMPOUNDS Na ₂ ZnGe ₂ S ₆ AND Na ₂ ZnGe ₂ Se ₆ Rekia MAHIAOUI, Tarik OUAHRANI, Abdelhak CHIKHAOUI
ID 1462	Development and Characterization of Reactive Powder Concrete: Experimental and Numerical Approach Nawal Siham ADAMOU DOUMI, Hadjila Bournine Amrane, Lamia Samah Ben saadi, Ali Ahmed Benyahia
ID 1489	Hydrophilicity Enhancement and Aging Behavior of Polyethylene Treated with Argon Atmospheric-Pressure Plasma Jet Bedrouni Fatma, Ouchabane Mohamed, Saidi-Amroun Nadia, Almabouada Fateh
ID 1569	Realisation of an all-optical OR Logic gate based on nonlinear kerr effect with high speed and ultra compact size Charik Khalissa
ID 1574	Development of high-performance dental porcelain using local raw materials: Influence of TiO ₂ additions on densification and mechanical properties Fayçal Aouadja
ID 1582	Effect of heat treatment on transformation temperatures in shape memory alloy CuZn ₂₆ Al ₄ Mourad Benzemmouri
ID 1669	Development and Characterization of a ZnO-Modified Hydrogel for Environmental Applications Chouana Hadjer, Sehil Hafidha, Mimouni Amina
ID 1751	Thicknesses Effect on conventional and inverted organic solar cells (OSC and IOSC): Comparison study Maroua ABDALLAOUI, Doaa ABDALLAOUI, Sarra BARKAT

10:00– 14:00	Online Session wednesday, April 11th, 2025
Room 8 Nanoscience meet.google.com/xfq-njfi-pzm	
Online Session Chairs:	
ID 380	Unveiling the Electronic and Magnetic Properties of Sr ₂ VMoO ₆ Double Perovskite: A First-Principles Study Atika Guendouz, Khadidja Hadj Larbi, Abdelkader Nabatti Ech-Chergui, Kouider Driss-Khodja, Bouhalouane Amrani
ID 398	Computational determination of structural, electronic, magnetic and elastic properties of Rare-earth-based intermetallic compounds as potential spintronic materials montaha affane, saadiya benatmane
ID 439	In Silico Prediction of Drug Distribution in Liposome vesicles Using Molecular Modeling Fatma Zahra Hab, Anfel Benmanseur, Rechda Amel Tachour, Rania Derguine, Abdelmalek Rezgui, Yacine Benguerba, Bachra Khettal, Widad Sobhi
ID 443	First-Principles Insights into a Half-Heusler for Opto-Thermo Applications Lakhdar BENAHMEDI, Anissa Besbes, Radouan Djelti, Ali AISSANI, Sidahmed Bendehiba
ID 489	Thermodynamic Properties of the Dunkl Harmonic Oscillator in d-Dimensions: Exploring Reflection Symmetry and Statistical Mechanics. Lakhdar Sek, Issam Zaiz, Abdelmonem Miloudi
ID 618	First-Principles Investigation of Ag Doping Effects on the Structural and Electronic Properties of Cu ₂ Mg _{1-x} Ag _x SnS ₄ (x = 0.125–1.00) Mohamed Amine Chenafi, Abdesselam Boucif, Kamel Demmouche
ID 674	Chimisorption et détection de la phénytoïne sur le cluster Ga ₃ : étude DFT, DOS, ELF et effet du solvant Cheghib Nedjoua

ID 687	Étude ab-initio du ferromagnétisme dans les matériaux ferromagnétiques demi-métalliques de type binaire montaha affine
ID 688	Computational determination of structural, electronic, magnetic and elastic properties of Rare-earth-based intermetallic compounds as potential spintronic materials montaha affine
ID 776	Investigation of Structural, Elastic, Mechanical, Magnetoelectronic and Optical characteristics of KMgNS Heusler alloy Houssam Meghchouche, Malika Labidi, Abdelaziz Amara, Salima Labidi
ID 887	First principle study of spintronic properties for double perovskites Ba ₂ XMoO ₆ with X=V, Cr and Mn Bouchentouf idriss Yasmine, Akham Amel, Bouhadjer Khadidja, mekhtiche manal, bouadjemi bouabdellah, Matougui Mohamed
ID 1002	Study of The Correlation among Rydberg dressed atoms as a Probe into Quantum Computation Leila Chia, Nabila Grar
ID 1326	Study of the structural, electronic and optical properties of semiconductor compounds oughidni hicham
ID 1331	Performance Enhancement of Solid-State Dye-Sensitized Solar Cells Using Niobium Pentoxide (Nb ₂ O ₅) Transport Layer: Numerical Study Abdellah Benyoucef, Mousaab Belarbi, Oussama Zeggai, Abdesslem Bouhenna
ID 1366	Study of the structural, optoelectronic, magnetic and thermoelectric properties of double K ₂ NaXBr ₆ perovskites (X = Sc, Cr) for spintronic devices and optoelectronic applications. mohammed Kheir Allah, Djillai Ben Said
ID 1411	An investigation of the electronic structure and optical properties of doped tin oxide based on first principles kelthoum Abdaoui
ID 1510	Structural, elastic, electronic, and optical properties of the cubic perovskites AVO ₃ (A=Ca and La) Fatima Nemla, Djellal Cherrad
ID 1524	Electronic and Optical Properties of Mn-Doped HgSe Topological Insulator for Spintronic Devices Nour el houda HABIBES, Abdelkader BOUKORTT
ID 1599	Electronic and Thermoelectric Response of Mg ₂ Si Compounds to Uniaxial Compression Fatima Zohra BEHAR
ID 1602	Étude in silico des interactions ligand-acétylcholinestérase pour la conception de nouveaux inhibiteurs charif guissa, sihem boudermine, Imen Ramli, Tarek Boudiar
ID 1670	First Principles Study Using Hybrid Functional Approach of the Physical Properties of Narrow Band Gap Sc _x Y _{1-x} N (0 ≤ x ≤ 1) Solid Solutions Nour El Iman Zeghoum, Said Lakel, Nozha El Ahlam Doghmane, Housseem Eddine Doghmane
ID 1685	Exploring the Thermoelectric Potential of Perchalcogenoborates via DFT-Based Analysis fatima garadi
ID 1742	Enhancing the structure, stability and electronic properties of arsenic nanoclusters through transition metal doping : Quantum chemical study Chaouki SIOUANI, Sofiane MAHTOUT
ID 517	Exploring Lead-Free Halide Double Perovskites Rb ₂ SrBiBr ₆ and Rb ₂ ZrBiBr ₆ for Optoelectronic Applications Insights from First-Principles Calculations Abderrahmen Khalifa, Youssef Seksak, Ahmed Gueddim
ID 701	Modélisation de l'interaction électron-matière Tarek Khatir, Salim Houamer
ID 703	Efficiency enhancement of MoS ₂ solar cell with tungsten disulfide as HTL - a numerical simulation approach Abdelbasset Rahmoune
ID 845	Catalytic and Electronic Properties of Low-Dimensional MoSeTe: A Density Functional Theory

	Approach. Amina BOUHEDDADJ
ID 854	Study by modeling of high-energy photonic beams interactions with matter Rebiha Labbani, Amira Bouhabila
ID 900	Electronic structure and magnetic properties of AgMnO₂ : DFT study. Ismahane Berrached, Ahlem Rahmani, Oussama Mahroua
ID 1052	A theoretical study of Fe(II), Co(II), Ni(II) and Cu(II) complexes with tridentate (NNO donor) Schiff base ligand: structure , bonding and property Noura Benhamada, Bachir Zouchoune
ID 1087	Effect of Confinement Geometry on the Self-Assembly of Magnetic Nanoparticles for Water Purification Lila Bouzar
ID 1133	Effects of Tilted Angles and Hartmann Number on Thermal Performance Factor Parameters in Nanofluid Mixed Convection Ayoub BENNIA, Sidahmed ALLICHE
ID 1264	Numerical modeling of the impact of fiber arrangement on Poisson's Ratio ν_{12} of a unidirectional CNT/polymer nanocomposite material CHARAFEDDINE BENATMANE, SAMIR BREK, LAHCENE GHOUARI, TAKIEDDINE NAILI
ID 1298	First principal investigation of the halide substitution on the phonon instabilities in multi-layered phases. BENOMAR SARRAH, IBRAHIM ABDELLAOUI, DJANI HANIA
ID 1332	Monte Carlo Study of Magnetic Properties in Nano-Graphene Based on the Ising Model Yazid Benbouzid
ID 1341	A comprehensive examination of structural and optoelectronic characteristics of ternary halide perovskites AgXBr₃ (X= Ca, Sr, and Ba) Maroua Khenata, Abdelkader Dehbi, Abdelkader Belfedel
ID 1355	First-Principles Analysis Transition Metal Doped Ceria: Electronic, Thermoelectric, and Optical Properties BENMALEK Aida, Doghmane Mlika, Chettibi Sabah
ID 1389	Quantal study of the satellite features in the absorption spectra of Cs (6p $\leftarrow$ 6s) perturbed by Helium Abdelaziz MOUSSAOUI
ID 1398	Theoretical study of BP/GeC van der Waals Heterostructures for High-Efficiency Solar Cell Khawla Chaoui, Kamel Zanat
ID 1467	Comparison of Sheath Formation criterion in a Collisional plasma Between Boltzmann and Nonthermal Electrons ilhem bensaoucha, ammar mosbah
ID 1472	Growth behavior, electronic, magnetic and optical properties of pure Ge_n and doped SnGe_n clusters and their applications: DFT simulation approach Soumaia DJAADI
ID 1613	Investigation of structural, electronic and magnetic properties of doped Oxide Perovskite BaZrO₃, Ab initio study. rahmani ahlem
ID 1628	On the Structure of Quantum States for Central Potential Systems via the Variational Approach Ouanassa Haif Khaif
ID 1824	Study of the Optical Properties of Tin Oxide Thin Films Synthesized Using Spray Pyrolysis Halima HABIEB
ID 1825	Interaction of Non-Planar Dust Ion-Acoustic Solitary Waves in a Dusty Plasma with Epstein Drag S.Kadi
ID 1826	Hybrid Optimization of Interpolation Methods Using Particle Swarm Optimization Belkheir ZIANI
ID 1827	Breaking Efficiency Barriers: A Comparative Simulation of GaAs and BAs Solar Cells for

	Next-Generation Photovoltaics Laarej Merad
ID 1828	Adaptive PID controller using Load Frequency Control with ANN and ANFIS algorithms Benalia Nadia
ID 1829	Analysis of Cutting Speed Impact on Ceramic Tool Wear during Hardened Steel Machining Faouzi Hamza
ID 1831	Modeling and Simulation of a Single-Stage Grid-Connected Photovoltaic System Zerzouri Nora
ID 1832	Adaptive PID controller using Load Frequency Control with ANN and ANFIS algorithms Benalia Nadia
ID 1834	Removal of anionic dye by adsorption on activated carbon Khadidja Khalili
ID 1835	Investigation of the current-voltage characteristics of a InP nitride Schottky diode Toumi Hayet

10:00– 14:00	Online Session wednesday, April 11th, 2025	
	Room 9 Applied Ceramic Technology meet.google.com/xfq-njij-pzm	
	Online Session Chairs:	
ID 427	Design and 3D Printing of Fluorohydroxyapatite Scaffolds for Biomedical Applications AGSOUS Maissa, KHIREDINE Hafit, YALA Sabeha	
ID 938	Microstructural Characterization of Calcium Phosphate Bioceramic Powder Djahida Sidane, Lila Ouzougoua, Nadir Slimani, Hafit Khiredine	
ID 675	Studying the Physical and Biological Properties of Synthetic Diopside Derived from Local Dolomite Souheila Zouai, Fatiha Guerfa, Fahima Zenikheri, Faiza Bouaïcha	
ID 700	Predicting Dynamic Response of Functionally Graded Beams Resting on Winkler-Pasternak Foundations FOURN Hocine, Bennai Riadh, NEBAB Mokhtar, AIT ATMANE Hassene	
ID 893	Wear resistance and surface damage of MgAl₂O₄ spinel ceramic after scratch exposure Khadidja hoggas, Salim Benaissa, Mohamed hamidouche, gilbert fantozzi	
ID 1354	A Theoretical Study Structural and Opto-electronic Properties of the Germanium Based Halide Perovskite AICHA bendjedid	
ID 1369	Synthesis and characterization of ceramic superconductors Harma Fatima, Belakroum Karima	
ID 1662	Electrochemical synthesis and characterization of ZnO nanosheets on Al/Al₂O₃ for photocatalysis application Nawal Boukmouche	

Publication

All accepted papers will be published in the **conference proceedings**.

For exceptional contributions, the best articles (will be considered for publication in the prestigious, indexed international journals

1. Journal of Building Materials Science(JBMS) (SCOPUS indexed)
2. Journal Environmental & Earth Science (JEES) (SCOPUS indexed)
3. Research in Ecology (RE) (SCOPUS indexed)
4. Trends in Immunotherapy (TI) (SCOPUS indexed)

NB: Publication fees may apply

National publications:

- 1- International Journal of Automation and Safety (IJAS)
- 2- Recueil De Mécanique (RDM)

