



PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA MINISTRY
OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH
UNIVERSITY CENTER OF TIPAZA MORSLI ABDELLAH



1st International Seminar on Mechatronics Innovation Materials, Renewable Energy, and Artificial Intelligence
(ISMIMREAI'24), November 16-17, 2024, Tipaza, Algeria

Certificate Of Participation

The Chairwoman Of The ISMIMREAI'24 Certifies That ;

Fathi MESSAOUDI

Has Presented a **Poster** Communication , Entitled :

Study of the Physical Properties of Nickel oxide Thin Films : Effect of Lower Molarity



Co-authors: Noudjoud LEBGA, Elhadj BENREZGUA, Bahri DEGHEFEL and Abdelhalim KAHOU

Director Of Institute

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1st International Seminar on
Mechatronics Innovation Materials,
Renewable Energy and Artificial
Intelligence (ISMIMREAI'24)
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Study of the Physical Properties of Nickel oxide Thin Films : Effect of Lower Molarity

Fathi MESSAOUDI^{1,2} ✉, Noudjoud LEBGA^{1,2}, Elhadj BENREZGUA^{3,4}, Bahri DEGHEFEL^{3,5}, Abdelhalim KAHOU^{1,2}

¹Laboratory of Materials Physics, Radiation and Nanostructures (LPMRN), Mohamed El Bachir El Ibrahimi University, 34000 Bordj Bou-Arreridj, Algeria

²Department of Matter Sciences, Faculty of Sciences and Technology, University of Mohamed El bachir El ibrahimi - Bordj Bou Arreridj. 34030, Algeria

³Laboratory of Materials and Renewable Energy, Faculty of Sciences, University of M'sila, 28000, M'sila, Algeria.

⁴Department of natural and life sciences, Faculty of Sciences, University of Msila, Algeria

⁵Department of physics, Faculty of Sciences, University of Msila, Algeria

✉Corresponding Author Email: fathi.messaoudi@univ-bba.dz

Abstract :

The sol-gel spin coating method was effectively used to deposit nickel oxide (NiO) thin films onto glass substrates using nickel acetate tetrahydrate as a precursor. The films were prepared with different concentrations (0.2 M, 0.3 M and 0.4M) and annealed at 450°C for 1.5 hours in air. Structural analysis via X-ray diffraction (Fig.01) shown that all films exhibited crystallization in the cubic phase, with preferred orientation toward (200) plane a-plane, at the angle 43.3 °. The crystallite size increases when increasing the concentration. Similarly, other structural parameters of the nanoparticles such as dislocation density (δ), micro-strain (ϵ) and decreased with increasing molar concentration as shown in Table 1. The investigation of the absorption spectra on the UV-visible region shows that the transparency of the films decreases in the visible region. Using tauc's method, the band gap energy was estimated. We observe a slightly wider band gap when increasing the concentration. Eg values varies from 3.72 eV to 3.83 eV. (Fig3).

Keywords: NiO; Thin films; Sol-gel technique; Spin coating method.

Refereneecs :

- [1] El-Molla SA, Hammed MN, El-Shobaky GA. Catalytic conversion of isopropanol over NiO/MgO system doped with Li₂O. Mater Lett 2004;58:1003–11.
- [2] Wu SY, Chen WF, Ferng YF. The electrochromic properties of nickel oxide by chemical deposition and oxidation. Mater Lett 2006;60:790–5.
- [3] Liu ZG, Zu YG, Fu YJ, Zhang YL, Liang HL. Growth of the oxidized nickel nanoparticles on a DNA template in aqueous solution. Mater Lett 2008;62:2315–7.
- [4] Castro-Hurtado I, Herran J, Perez N, Olaizola SM, Mandayo GG, Castano E. Toxic gases detection by NiO sputtered thin films. Sens Lett 2011;9:64–8.



« 1st International Seminar on Mechatronics Innovation Materials, Renewable Energy and Artificial Intelligence (ISMIMREAI'24), November 13-14, 2024, Tipaza, Algeria »



- [5] Du Y, Wang WN, Li XW, Zhao J, Ma JM, Liu YP, et al. Preparation of NiO nanoparticles in microemulsion and its gas sensing performance. Mater Lett 2012;68:168–70.
- [6] Li Y, Xie YS, Gong JH, Chen YF, Zhang ZT. Preparation of Ni/YSZ materials for SOFC anodes by buffer-solution method. Mater Sci Eng, B 2001;86:119–22.



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**1st International Seminar On Mechatronics Innovation
Materials, Renewable Energy and Artificial Intelligence
(ISMIMREAL'24)**

November, 16-17, 2024, Tipaza, Algeria

GENERAL PROGRAM SCHEDULE ISMIMREA'24

	November 15, 2024	November 16, 2024		November 17, 2024
08 :00-08 :30		Registration+ Reception (Auditorium –University Center Of Tipaza)		Opening Day
08 :30-10:00		Opening Ceramony		Competition of «my Thesis in 180 Second »
10 :00-10:40		Plenary session I Pr. Bouziane Mahmah		Innovation challenge Competition
10 :40-11:20		Plenary session II Pr. Benmoussa Hocine		Closing
11:20-12:00		Session I: Poster + Coffee Break		
12:00-12:40		Plenary session III Pr. Mohamed Becherif	Session I : Oral	
12:40-13:20		Plenary session IV Pr.Metatla Abderrazak		
13:20-14:00		Session II : Poster		
14:00-14 :30		Lunch		
14 :30-15 :10		Registration+ Reception (Village touristic complex CT- Tipaza)	Session II : Oral	
15 :10-15 :45				
15 :45-16 :15	Closing Day			

Plenary Sessions

	Names	Titles	Presidents of sessions
Plenary session I	Pr. Bouziane Mahmah (Expert and Former Secretary General of the Ministry of Energy transition and Renewable Energies)	Hydrogen fuel cells : the biggest challenge to develop the hydrogen market	-Pr. Benmoussa Hocine -Pr. Khaneta Rabeh -Pr. Meradji Hocine
Plenary session II	Pr. Benmoussa Hocine (Univ-Batna)	Algeria and new Renewable Energies « Educational system »	-Pr. Boukhari Ali -Pr. Belgroun Zoubir -Dr. Chouaib Labiod
Plenary session III	Pr. Mohamed Becherif (Univ-Belfort France)	Electrical vehicules smart cities	-Pr. Metatla Abderrazak -Dr. Menaceur Redha -Pr. Bouziane Mahmeche
Plenary session IV	Pr. Metatla Abderrazak (Univ-Skikda)	Developement optimisation of a hybrid renewable energy system for the remote telecommunication station of Bougaron, Collo, Algeria.	-Dr. Redha Menaceur -Pr. Mohren Abdelkrim -Dr. Mansouri Khaled

Oral an poster Sessions

Oral Sessions :

Oral Session I:

<u>Presidents Session :</u>		
-Meradji Hocine		
-Khanata Rabeh		
-Labiod chouaib		
Pr. Boukhari Ali (Univ-El Oued)	Harvesting Benefits of AI and Technical Machine Learning in Renewable Energy Exploitations.	
Communications		
ID-number	Authors	Titles and Affiliations



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Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-OC-3008	Abdessabour Benamor, Nabil Chiker, Youcef Hadji, Adel Haddad, Cheniti Billel, Riad Badji, Mohamed Hadji	Enhancing Lubrication: The Role of Exfoliated Kaolinite Nanolayers as Friction Modifiers in Oil Laboratoire Etudes et Recherche en Technologie Industrielle, University of Blida 1, Algeria
ID-OC-3012	Ait Ali Salima , Ziani Salima , Aghilas Brahemi , Yanis Zakaria Lakehal. Idris yahiaoui, Farida Aissani-Benissa	SDS-Impregnated Amberlite XAD16 Resin for Cadmium Ion Extraction from Aqueous Solution Département de Génie des Procédés, Faculté des Sciences et des Sciences Appliquées, Université de Bouira
ID-OC-3022	Bedrouni Mahmoud, Mahfoud Abdelkrim, Bachir Kharroubi.	Investigating the effect of UHV treatment on the chemical, electronic, and Optical properties of tin oxide (SnO₂) thin film using appropriate spectroscopy techniques Faculty of technology, Saad Dahlab University - Blida1 (SDUB), Postal Box 270, Soumâa Road, BLIDA, Algeria.
ID-OC-3025	Belhaoui Yassine, Bechir Hocine and Methia Mounir	Numerical computation of Cauchy stresses near a blunt crack-tip taking into account surface effect in mode-I loading Université de Bejaia, Faculté de technologie, Laboratoire de Mécanique, Matériaux et Énergétique (L2ME)), 06000Bejaia, Algérie.
ID-OC-3032	Bouakba Tarek, , Kamel Zouggar, Guerraich Khelifa, , Badis Haddag	Numerical Simulation of Cutting Forces in Composite Materials for Orthogonal Cutting Processes Laboratory for research in manufacturing Department of mechanical Engineering, Faculty of Engineering, University of Batna 2, Algeria
ID-OC-3052	HAUSA Loubna, Hadjeris Lazhar, Herrissi Labidi, Nouveau Corinne, Pinot Yoann, Besnard Aurélien	Annealing temperature effect on structural, optical and Photocatalytic properties of ZnO and Ni doped-ZnO thin films prepared by spray pyrolysis LMSSEF, Exact Sciences and Nature and Life Sciences Faculty, Larbi Ben M'Hidi University, DZ -04000 Oum El Bouaghi, Algeria
ID-OC-3061	Hayet MISSOUNI, Djanette BLIZAK MERIEM, Souheyla TOUBAL and Imane DJOUABI	Enhanced Pechini Sol-Gel Synthesis of NiO Nanoparticles Using Eruca sativa Extract for Photocatalytic Degradation of Methylene Ecole Normale Supérieure de Kouba ENSK.
ID-OC-3072	Kahina Lazela, Abdellah Khelifa, Omar Bouledroua and Salah Eddine Aoudj	Synthesis and Evaluation of Petroleum Sulfonates as Corrosion Inhibitors in Acidic Environments Department of Chemical Engineering, Faculty of Technology, Laboratory of University of Blida
ID-OC-3095	Maroua Nihel BENABDALLAH, Hayat BENAHMED	Study of the dynamic scattering properties of diblock copolymer/nanocomposite systems Maroua Nihel BENABDALLAH, Hayat BENAHMED Department of Physics, Abou Bekr Belkaid University, Tlemcen 13000, Macromolecular Research Laboratory, Algeria
ID-OC-3097	MAZOUNI Soumia, BERKACHE Kamel, HAOUACHE Sara, GANHOFFER Jean-François	Identification of a couple stress model for triangular, hexagonal and kagome lattice materials National Higher School of Advanced Technologies
ID-OC-3107	MOUISSA Fadhila, , BENYAHIA Azzeddine, Boutaani Mohamed Said	The study of the mechanical properties of composite materials reinforced with natural fibers Mohamed Boudiaf University M'sila
ID-OC-3109	Nabil Chiker, Abdessabour Benamor, Youcef Hadji, Adel Haddad, Mohamed Hadji	Microstructure and Wear Behavior of In-Situ Chromium Carbide nanoparticles reinforced γ-Ni Composites Elaborated From Cr₂AlC MAX phase Precursor



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		Laboratoire Etudes et Recherche en Technologie Industrielle, University of Blida 1, Algeria.
ID-OC-3112	Nemiri Ouarda	First principles study of temperature induced structural phase transition and electronic properties of AlX (X = N, P, As, Sb and Bi) binary compounds Laboratory of Physical Chemistry and Biology of Materials (LPCBM), Département of Physics, High School of Technological Teaching of Skikda, Skikda, Algeria
ID-OC-3117	Oussama Miloud Abid	Optimizing Electronic and Thermoelectric Performance in Two-Dimensional ZrTiS for Next-Generation Energy Applications Belhadj Bouchaib University
ID-OC-3121	Raouia Zernadji, A. Chala and M. A. Djouadi	Thin films physics, technology, applications and future trends Biskra University
ID-OC-3126	Salima Ziani, Salima Ait Ali, Aghilas Brahmi, Yanis Zakaria Lakhel, Samira Meski, Hafit Khiredine	Use of Phosphate Powder from Djebel Onk for Adsorption of Crystal Violet in aqueous solution Département de Génie des Procédés, Faculté des Sciences et des Sciences Appliquées, Université de Bouira
ID-OC-3140	Walid Rezig	Synthesis and Characterization of Titanium Dioxide/ Ferrihydrite Modified Diatomite (Diatomite Fe) for Photocatalytic Application the Industrial Dye University of Sciences and the Technology of Oran Mohamed Boudiaf USTO-MB.
ID-OC-3142	Yazid Goutal, F. Serdouk, M. L. Benkheldir, A. Boumali	Study of Dispersive Charge Carrier Transport in Amorphous Semiconductors. Echahid Cheikh Larbi Tebessi university.
ID-OC-3153	Amina Bendoumi, Redouane Chegroune and Mania Terki	Mechanical Proprieties Characterization of C20 Carbon Steel After Laser Boriding Treatment Laboratory of Materials Technology LTM, department of materials science, University of Sciences and Technology Houari Boumedienne, 16311 Algiers, Algeria

Oral Session II:

Presidents Session :

- Dr. Metatla Abderrazak
- Pr. Ali Boukhari
- Dr. Chouaib Labiod

Communications

ID-number	Authors	Titles And Affiliations
ID-OC-1005	Boulifa Mohammed Iliyesse, Ali HADJI, Khalil DEGHOUM	speed sensorless control of IPMSM using synergetic observer Department of Electrical Engineering, Laboratoire Génie Electrique et Energies Renouvelables (LGEER), Hassiba Benbouali University of Chlef.
ID-OC-2002	Maissa Bouselsal, Fateh Mebarek Oudina	The TiO₂- Cu/ H₂O hybrid nanofluid and entropy in a shell/ tube heat



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		Univ –Skikda
ID-OC-2004	Abdelghani Lakel, Randa Slatnia and Hanane Meddas	Deposition Temperatures Effect of on the Structural, Optical and Electrical Properties of Zinc Oxide (ZnO) Thin Films Material Sciences Department, Faculty of Science, University of Biskra, Biskra 07000, Algeria
ID-OC-2015	Atmane AKHENAK, Meriem RIAD	Leading Countries in Renewable Energy Investment: A Comparative Analysis University center of tipaza Morsli Abdellah
ID-OC-2016	Bachir Zine, Redha Meneceur, Labiod Chouaib and Mohamed Becherif	Experimental Investigation into Electric Vehicle Battery Diversity University of Eloued
ID-OC-2018	Boudia Assam, Messalti Sabri Harrag Abdelghani	Optimizing Superconducting Magnetic Energy Storage in PV Systems Using PID Controllers 1LGE Laboratory, Department of Electrical Engineering, Faculty of technology, University of Msila, university pole, road bordj bou arreridj, M'sila 28000, Algeria
ID-OC-2029	Kerriche nawel	Renewable Energies and their Role in Achieving the Dimensions of Sustainable Development in Algeria by 2030. Department of Applied Statistics, Higher National School of Statistics and Applied Economics, Algeria.
ID-OC-2035	Mohamed nadir KHELIFI Ouacil SAOULI, Yacine BENGUERBA	Improving of CO2 Absorption with enzyme: Simulative Approaches using Hollow Fiber Membranes Laboratoire de Génie des Procédés pour le Développement Durable et les Produits de Santé (GPDDPS), Département Génie des Procédés, Ecole Nationale Polytechnique de Constantine, Nouvelle Ville, Constantine 25000, Algeria.
ID-OC-2037	Mohammed Missoum Sofiane Benchamma Nefissa Belkacem	Simulation of a solar air heat pump system for a low energy building in a cold climate of Algeria University Centre of Tipaza, road of Oued Merzoug, 42000, Tipaza, Algeria.
ID-OC-2039	Mohamed SEDDAR YAGOUB, Mustapha AOUAICHIA and Mohamed ADNANE	Towards an Eco-Friendly Simulation of Solid-State Quantum Dot Solar Cells with an Ultrathin ZnO Layer Using SCAPS-1D University of sciences and the technology of Oran-MB-
ID-OC-2055	ZEKRAOUI Djamel, ZEMMOURI Nouredine, OULD ZEMIRLI Mohamed	Dynamic smart window between energy consumption and visual comfort in hot and arid region. Laboratory of design and modeling of architectural forms and ambiances (LACOMOFA) University Mohamed Kheider Biskra – Algeria
ID-OC-2062	Benyahia Ilias , Aissa Abderrahmane	Impact of variously shaped fins and copper nanoparticles on the shell-and-tube thermal energy storage unit's performance Department of Mecanics' Laboratory of Quantum Physics of Matter and Mathematical Modeling (LPQ3M), University of

		Mascara, Algeria
ID-OC- 4003	Abdelmalik DJARIR, Souaad. TAHR AOUI, Habiba HOUARI, Abderrahmane KACIMI, Hakima Mostefaoui, Azeddine BELOUFA	Artificial Intelligence to Observations and Diagnosis of Dynamic Systems Electronic Departement, Hassiba Benbouali University, Chlef Algeria, Laboratory of Electrical Engineering and Renewable Energies(LGEER), Chlef Algeria
ID-OC- 4014	Kaoutar Zellat, Mohamed Cherif Djemai and Mohammed Naim Issad	Advancements in the Application of Artificial Intelligence in the Field of Civil Engineering An In Depth Review
ID-OC- 4024	Souaad. TAHR AOUI, Habiba HOUARI, Hakima Mostefaoui , Rachid TALEB, Elhadj Bounadja	AI- Ant Colony Optimization Optimized PID Tuning for Control Arm Robotic Electronic Departement, Hassiba Benbouali University, Chlef Algeria, Signals, Systems and Artificial Intelligence Laboratory 2SAIL Chlef Algeria
ID-OC- 4025	Remha Souhaib, MAHMOUDI Abdelkader, MILOUDI Khaled, LAOUAMER Mosbah, AROUDJ Mohammed	Enhancing grid observability using comprehensive strategy for optimal placement of PMU in radial distribution networks” Faculty of Technology, Mechanical Engineering Department, University of El Oued, Algeria
ID-OC-4026	Ridha Meneceur	Application of loop Heat Pipes-PCM for Coolin Photovoltaic Systems Univ El Oued
ID-OC-4027	Mr Chefai Mustapha	Save The energy of the future
ID-OC-4028	Mr Merdaoui Mustapha	Clean energy”influence of harmonics on the quality of energy”
ID-OC-4029	Pr Nawel Benlakhal	CDE S Algerian universities locomotives of entrepreneurial training University Center of Tipaza
ID-OC-4030	Dr Fahem Sakher ; Nozha El Ahlem Doghmane; Housse m Eddine Doghmane; Samir Chadli; Faical Baira; Mounir Sakem mech and Stefano Bellucci	Structural and Microstructural study of Nanoclay Univ –Adrar
ID-OC-4030	Ali Kadour and Guenouna Lakhdar	Presentation of the experiences of succesful Countries in the field of investment in renewable energies CU-Tipaza

Poster Sessions

Poster Session I (Topic 3):

Presidents of Session :

- Alliouche sihem
- Nedjari Nabila
- Mouada hanane
- Laouadj Amel
- Saadoun Louiza
- Ezzeroug Kaouther
- Bouzit Fatima
- Belhouas Abderrahmene

ID-number	Authors	Titles
ID-PC-3001	Abdelhak Chebli, Martin Cesnek, A. Djekoun, J.J. Sunol, D. Niznansky	<p>Synthesis and characterization of nanocrystalline / amorphous Fe₇₅Si₁₂Ti₆B₇ and Fe₇₃Si₁₅Ti₅B₇ powders</p> <p>Laboratory of Magnetism and Spectroscopy of Solids (LM2S), University of Badji-Mokhtar, Faculty of Science, B. P 12 (23000) ANNABA –Algeria</p>
ID-PC-3002	Abderrahmane Djili, A. Boumecheda, A.A. Ghouini	<p>Estimating the residual life of the screen tubes in a power plant boiler Case study (real)</p> <p>Department of Mechanical Engineering and Production Engineering, Ecole Nationale Supérieure de Technologie avancée, Algiers, Algeria</p>
ID-PC-3003	Abderrahmane Djili	<p>Measurement and Analysis of Residual Stress in A 2024-T3 Aluminum Alloy FSW Weld Using the XRD Sin 2Ψ Technique</p> <p>Department of Mechanical Engineering and Production Engineering, Ecole Nationale Supérieure de Technologie avancée, Algiers, Algeria</p>
ID-PC-3004	Abdelhai AOUAITIA, Abdelhakim KERKOUR , Aicha MOULOU, Fatima BENBELAID, Abdelmounaim BENCHAOU	<p>Analysis of Irganox 1010 Diffusion in LDPE/Nanosilica Composite Films</p> <p>Abderrahmane Mira University, Faculty of Technology, Organic Materials Laboratory</p>
ID-PC-3005	Abdelkrim Mahfoud, Guezoul M'hamed, Bedrouni Mahmoud	<p>Tailoring Optoelectronic Properties of Indium-Doped ZnO Thin Films: A Comprehensive Study of Chemical Composition, Electronic Structure, and Defect States.</p> <p>Laboratoire des Matériaux (LABMAT), Ecole Nationale Polytechnique (ENPMaurice Audin), P.O. Box 1523 El Mnaouer, Oran 31000, Algeria</p>
ID-PC-3006	Abdelli Lynda, Nouadji Malika and Marmi Saida	<p>Plant extracts as green corrosion inhibitors for carbon steel</p> <p>Mohamed Khidher University of Biskra</p>



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ID-PC-3007	Abderrahmane Boucheta, mokhtar Bouazza, Tawfiq Becheri	Buckling and free vibration analysis of FGM nanobeams using refined shear deformation theory Department of Mechanical Engineering, Saad Dahlab University of Blida 1, Algeria.
ID-PC-3009	ABDESSELAM Nour El Houda, Mokaddem Hassiba and SADAQUI Zahra	Investigating the impact of the organic binder on the ultimate properties of a ceramic membrane Process engineering / option: environment engineering
ID-PC-3010	Achour Abderraouf, and Aziez Mohammed Nadjib	Utilizing Eco-Friendly Plant Materials for Sustainable Green Construction Laboratory Management and Valorization of Agricultural & Aquatic Ecosystems (LMVAAE), Institute of Science, University Center of Tipaza, Algeria
ID-PC-3011	Ahlem Bekhouche , Safia Alleg , Karima Dadda , Joan-Josep Suñol	Microstructure, martensitic transformation kinetics, and magnetic properties of NiMnInCo melt-spun ribbons Laboratory of Magnetism and Spectroscopy of Solids, Physics Department, Badji Mokhtar Annaba University, Algeria
ID-PC-3013	Akila Boumaza, Hanene Bendjeddou, Ouarda Nemiri, Feisel Oumelaz	Studies on structural, elastic and transport properties of RbSnBr₃: a DFT insight Department of Physics, Laboratory LPR, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria
ID-PC-3014	Amel Louadj, Omar Bouras, Kaouther Ezzroug, Mohamed Houari, Sidali Kourdali	Elimination of antibiotics from pharmaceutical effluent using treated kaolin beads University Center Abdellah Morsli
ID-PC-3015	Amirouche BOUREMANI, Mokhtar HALIMI, Dahane KADRI, and Ahmed KADARI	Mathematical Modeling of thermoluminescence in Zn₃(PO₄)₂: Mn²⁺ Department of Materials Technology, Faculty of Physics, University of Sciences and Technology of Oran (USTO-MB) ,Algeria.
ID-PC-3017	Assia TOUNSI, Ouafia BELGHERBI, Leila LAMIRI, Boussaha BOUCHOUL, Nourdinne BOUMAAZA, Farid HABELHAMES, Ahmed BAHLOUL	Synthesis and physico-chemical characterization of polyamide-graphene oxide composite material Research Center in Industrial Technologies CRTI, P.O. Box 64, 16014 Cheraga, Algiers, Algeria
ID-PC-3019	Aya Khadidja Touil, Silvia Antonia Brandan, María V. Castillo, Boumediene Haddad, Annalisa Paolone, Bekhaled Fetouhi, Nathalie Bar, Didier Villemin, Mustapha Rahmouni, Serge Bresson	Characterization and Thermal Analysis of cholinium Ionic Liquid via NMR, FT-IR, and FT-Raman Spectroscopy Coupled with DFT Calculations University of Saida
ID-PC-3020	Ayyoub BEZZALLA, Mokhtar ELCHIKHa , Nadia ILES	Half-metallicity and multiferroic characters of tetragonal BaTi_{0.875}Fe_{0.125}O₃ : DFT-based calculation. Laboratoire de Physique des Matériaux et des Fluides, Faculté de Physique, Université des Sciences et de la Technologie



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		d'Oran, USTO-MB, Oran, BP1505 Oran El Mnaouer, Algérie
ID-PC-3021	BADAoui Mohamed and LAMOURI Chaimaa	<p>Synthesis, characterization and study of the photocatalytic activity of MBiO₃ nanomaterial with (M=Ce, Fe) synthesized by Sol-Gel process</p> <p>Synthesis and Catalysis Laboratory, University of Tiaret, 14000, Tiaret, Algeria</p>
ID-PC-3023	Belgacem Mohamed EL-Ghazali, OULDKHAOUA Younes LAIDANI Zine El Abidine and SAHRAoui Mohamed	<p>Optimization and Characterization of Self-Compacting Concrete Based on Recycled Marble Aggregates</p> <p>Building in Environment Laboratory, Faculty of Civil Engineering, USTHB, Algeria Civil engineering department, University of Blida1, Algeria Institute of Architecture and Urbanism of Blida 1, Algeria</p>
ID-PC-3024	Belhaoues Abderrahmane	<p>Development Strategy and Effect of Chemical Modification on the Properties of a Composite Material Based on High-Density Polyethylene/Date Seeds</p> <p>Process Engineering Department, Faculty of Technology, 20 August 1955- Skikda University, Street El Hadaiek, BP 26, Skikda 21000, Algeria. Departamento de Física de Polímeros, Elastómeros y Aplicaciones Energéticas, Grupo de Elastómeros, Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), C/Juan de la Cierva 3, 28006 Madrid, España</p>
ID-PC-3027	BENBOUALI Assia and AMIROUCHE-KORICHI Amel	<p>Valorization of Sheep By-products: Keratin Extraction and Its Potential Applications</p> <p>Applied Organic Chemistry , USTHB, Algiers, Algeria</p>
ID-PC-3028	BENBOUALI Assia and AMIROUCHE-KORICHI Amel	<p>Assessing the Impact of Defect Depth on Damaged Pipeline Resistance.</p> <p>Mechanical Engineering Department, Mechanical and Energetics Research Laboratory, Hassiba Ben Bouali University of Chlef, Algeria</p>
ID-PC-3029	BENDJAMA Amel, MESSAI Youcef, BOUARROUDJ Tayeb, LERARI Djahida, CHEBOUT Redouane, CHETOUI Abdelmounaim, BERDJANE Djamel and BACHARI Khaldoun	<p>Eco-friendly Synthesized NiO Nanoparticles as Efficient Catalysts for the Reduction of 4-Nitrophenol</p> <p>Research Center in Industrial Technologies (CRTI), PB 64, Chéraga, Algiers, Algeria</p>
ID-PC-3030	BENDJAMA Amel, MESSAI Youcef, BOUARROUDJ Tayeb, LERARI Djahida, CHEBOUT Redouane, CHETOUI Abdelmounaim, BERDJANE Djamel and BACHARI Khaldoun	<p>Improved Photocatalytic Efficiency of Zn_{0.9}Mg_{0.1}S Nanoparticles for the Photocatalytic Degradation of Tartrazine under Natural Sunlight</p> <p>Research Center in Industrial Technologies (CRTI), PB 64, Chéraga, Algiers, Algeria</p>



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3031	BESSAAD Asma, TOUBAL Bedreddine, EL KOURD Kaouther and HADJILA Nadia	Green Synthesis of Zinc Oxide Nanoparticles: An Eco-Friendly Approach Department of Material Sciences, University of Algiers 1, Benyoucef Benkhedda, Algeria
ID-PC-3033	Boumediene Haddad, Alok Mittal, Jyoti Mittal, Annalisa Paolone, Didier Villemin, Mansour Debdab, Gousseem Mimanne, Asmaa Habibi, Zineb Hamidi, Mostefa Boumediene, El-habib Belarbi	Synthesis and characterization of Egg shell (ES) and Egg shell with membrane (ESM) modified by ionic liquids University of Saida; Dr Moulay Tahar; Algeria
ID-PC-3034	BOUSSOUF Lila, KHENIOUI Youcef, ZEHANI Fouzia	Improvement of the Mechanical and Dielectric Properties of Electric Porcelain through Optimization of Quartz Particle Size Department PE, Institute Science, Tipaza University Center, Algeria
ID-PC-3035	Abderrahmane MEZRAG, Meriem AISSAOUI, Nunziatina DETOMMASI, Samir BENAYACHE	Structural characterization of compounds extracted from a plant of the Fabaceae family. Chemistry department, Faculty of Science. Saad Dahlab Blida 1 University, Blida 09000, Algeria.
ID-PC-3036	Chams Edoha LABIDI, Elies OMARI, Mahmoud OMARI	Elaboration And Investigation Of The Electrocatalytic Properties Of NaCoO₂ Oxide For The Oxygen Evolution Reaction Chemistry Department, Laboratory of Molecular Chemistry and Environment, University of Biskra, 07000 Biskra Algeria
ID-PC-3037	Dalila Boucherit	Evaluation of the accuracy of a proposed drying shrinkage model of concrete under different curing methods LME laboratory, Civil Engineering Department, University Yahia Fares, Medea 26000, Algeria
ID-PC-3038	Djalel Mebarki, Souad Dilmi, Salima Saib, Nadir Bouarissa, Souad Louhibi-Fasla	Electron-Phonon Coupling and Superconductivity in LaC₂ Compound upon Compression National Polytechnic School of Oran
ID-PC-3039	Djammal eddine Kerroum, R. Azzouz, B. Mohamed, Y. Ould, F. Zazoua, H. Bouafia	Optoelectronics properties of the semiconductor ZnGeAs₂ applied to photovoltaic cells University Blida 1 BP 270 Soumâa Road -BLIDA- Algeria. And Laboratory of Electron Microscopy-USTO- Department of Physical Engineering, BP1505 El m'naouar, Oran, Algeria
ID-PC-3040	Fathi MESSAOUDI, , Noudjoud LEBGA, Elhadj BENREZGUA, Bahri DEGHEFEL, Abdelhalim KAHOU	Study of the Physical Properties of Nickel oxide Thin Films : Effect of Lower Molarity Mohamed El Bachir El Ibrahimi University, 34000 Bordj Bou-Arreridj, Algeria
ID-PC-3041	Fatma MELLAL, R. Bennai, M. Nebab and H. A. Atmane	Investigation of the variation in fundamental natural frequencies of imperfect functionally graded beams supported by an elastic foundation.



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		Faculty of Science and Technology, Djilali Bounaama University, Khemis Miliana,
ID-PC-3042	Fatma Menacer, Omar Bentouila, Kamal Eddine Aiadi ,Sofiane Mahtout and Soumaia Djaadi	DFT study on gold cluster doping (PtAun) structural, magnetic properties and their application University Kasdi Merbah Ouargla
ID-PC-3043	Fazia Aiche, Souad Hamoudi, Adel Lalaoua	Numerical study of the slug formation process using the Euler-Euler model under various conditions Reaction Engineering Laboratory, Faculty of Mechanical Engineering and Process Engineering, University of Sciences and Technology Houari Boumediene
ID-PC-3044	FERHAT Maroua, Elhachmi Guettaf-Temam, Hocine Djemai, Adnane Labed	Characterization of novel bio-composites using date palm rachis fibers Mechanical engineering
ID-PC-3045	Filah Meriem, Dalila MOUATTAH	Computational study of Physical Properties of new inorganic lead -free halide perovskites: ABi3 Applied physics
ID-PC-3046	Gagui Souheyla, H. Hadjoudja, S. Ghemid, B. Hadjoudja, H. Meradji and B. Chouial	Study of structural and optoelectronic properties of N-doped GaAs by density functional theory Département des Sciences de la Matière, Université Larbi Ben M'Hidi –Oum el bouaghi, Algérie
ID-PC-3047	Guerfi Souad, Bahloul Lynda	Synthesis and characterization of natural biocomposite derived from eggshell waste. Research Center in Industrial Technologies (CRTI), PB 64, Cheraga, Algiers, Algeria.
ID-PC-3048	Hayet Briki, O. Merdoud, N. Abdellaoui, O. Arous	Clay-polymer based membrane synthesis. Characterisation and Application USTHB, Laboratoire des matériaux polymères, Faculté de Chimie, PO Box 32 El Alia, 16111 Algiers, Algeria
ID-PC-3049	HADDOUM MOUNIRA, OUAZANI FOUZIA, SADOUN LOUIZA, , REGUIG MKORTARIA, SAID MOHAMED EL AMINE, , BENOUIS KHEDIDJA	Efficient Adsorption of a Food Dye Using Raw and Activated Biomaterials Department of Energy and process engineering, faculty of thecnology, Djillali liabès University, Sidi Bel Abbès, Algeria.
ID-PC-3050	HADJILA Nadia, K.Elkourd, B. Toubal	Mathematical Techniques in Image Processing for Antifungal Testing of SiO2 Department of Material Sciences Benyoucef Benkhedda University Algiers 1, Algiers, Algeria



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3051	HAFFAS Sabah, Nadjette Belhamra	<p>Effect of doping on the structural morphological, optical and electrical properties of Co₃O₄ thin films deposited by spray pyrolysis</p> <p>Material Science, Exact and Natural Science, University Mohamed Khieder Biskra, Algeria</p>
ID-PC-3053	HAMANA Haoua, Gouassmia Abdelkrim, Boumedjout Meriem	<p>Design, Synthesis, and Application of Rhodanino-dithiafulvene Derivatives as Photovoltaic Dyes for Enhanced Solar Cell Efficiency</p> <p>Department of Materials Science, Faculty of Exact Sciences and Natural and Life University of Tébessa, Algeria</p>
ID-PC-3054	HAMOUDI Souad, Selma Lounis Second, Redha Rebhi, Soufiane Rahal, Fazia Aiche	<p>Numirical study of double diffuse convection in a square cavity of non-newtonian power law fluids saturated in a porous medium subject to a vertical gradien of temperature and concentration</p> <p>biomaterial and trasport phenomen laboratory</p>
ID-PC-3055	HAMRAOUI Somia, Djamila Boukhelkhal, Mohamed Guendouz	<p>Development of fluid sand concrete based on date seed as a fine bioaggregate.</p> <p>Civil EngineeringDepartment, University of Medea, Medea 26000, Algeria.</p>
ID-PC-3056	HAMZA Cyrine, A. Sadki, F. Djermatene, B. Djerdjare	<p>Characterization of Cermets Based on (WC, Co, Ni, Fe) elaborated by Spark Plasma Sintering</p> <p>Laboratory of Materials Sciences and Engineering (LSGM), Faculty of Mechanical Engineering and Process Engineering, University of Sciences and Technology Houari Boumediene, Bab Ezzouar 16111, Algiers, Algeria;</p>
ID-PC-3057	Hanane Mouada, Katia Mohand Saidi, , Ilham Ben Amor and Hadia Hemmami	<p>Biosynthesized Magnesium Oxide Nanoparticles: Antibacterial, Anti-inflammatory, and Cytotoxic Effects on MCF-7 Cells</p> <p>University center of Tipaza</p>
ID-PC-3058	Hanene Bendjeddou, Akila Boumaza , H. Meradji and S.Ghemid	<p>First-principles study of Structural and electronic and optical properities of Zinc Blend Zn_{1-x}BexSeyTe_{1-y} Quaternary alloys</p> <p>Laboratory LPR, Department of Physics, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria</p>
ID-PC-3060	HAROUN Houicha, Lakhdar Sedira, Rachid Makhloufi, BrahimBoucetta, Ludmila Ben Sidhoum	<p>Which Restoration to Choose? A Comparative Study of All-Ceramic, MetalCeramic, and Zirconia Restorations</p> <p>Laboratoire de Génie Mécanique, (LGM), University Mohamed Khider of Biskra, B.P. 145, Biskra RP 07000, Algeria.</p>
ID-PC-3062	HEDJAR Hakima, I. Bouzateur, A.Boukortt	<p>The effect of In, Cu Co-doping on the electronic structure and optical properties of ZnS.</p> <p>Departement of sciences et technologies, Faculty of sciences et technologies, university of Tissemsilt,</p>
ID-PC-3063	Ibtissam MANSOURI, F. Saib, A. Laachachi, M. Özacar and Y. Bessekhoud	<p>Optoelectric characteristics of PVC/Sr_xZnO nanocomposite films</p> <p>USTHB</p>



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3064	Ibtissem BOUSNOUBRA, Sihem ALIOUCHE, Lynda AROUI	Study of the Photocatalytic and Electrochemical Efficiency of Pure and Cerium-Doped TiO₂ Nanoparticles for the Degradation of Organic Pollutants in Wastewater Department of Process Engineering, Faculty of Process Engineering, Salah BOUBNIDER University Constantine 3, Algeria
ID-PC-3065	Idekki Said , Ait Taleb Souad , Si Salem Abdelmadjid	Modeling of Glass Fiber-Based Composite Materials. Laboratory LGEA, Civil Engineering Department, Faculty of Construction Engineering, University Mouloud Mammeri of Tizi Ouzou, 15000 Tizi-ouzou , Algeria
ID-PC-3066	Ilhem Aicha AZZOUZ, Youcef KAMLA and Mohammed Soltane CHACHI	Enhanced Mixing Efficiency in Stirred Tanks: A Comparative Study of Classical and Modified Four-Blade Anchor Impellers Laboratoire de Physique Théorique et de Physique des Matériaux (LPTPM)
ID-PC-3067	Imene Bibimoune , Bradai Djamel	X-ray diffraction microstructural analysis of an immiscible CuCr alloy after severe plastic deformation and annealing LPM, Faculty of Physics, USTHB, Algiers, Algeria.
ID-PC-3068	Imene Tarfaoui, Amel Djelad, Adh'ya-Eddine Hamitouche, Abderaouf Achour,	Preparation and characterization of Materials from natural Products Application Ahmed BenBella University Oran1,
ID-PC-3069	IRKI Ilyes, KESSEIR Mohamed and SETTARI chafika	Sustainable Fibber-concrete reinforcement Civil engineering Department, Science Institute, University center of Tipaza, Algeria
ID-PC-3073	Karima SEFFAH, Imane LAKEHAL, Hadjer OURIACHE, Dalila BADIS	High-Performance Activated Carbon Derived From Algerian Plum Oak For Removing Methyl Orange Dye From Aqueous Environments Faculty of Sciences, University Algiers1- Ben YUCEF Benkhadda, Algiers, Algeria;
ID-PC-3074	Kennaz Hiba, Harat Aicha, Aoues Iman and Benrabia Karima	Influence of temperature on structural and morphological properties of Fe₃O₄/C nanocomposites Chemistry department, Ziane Achour-Djelfa University, Djelfa 17000, Algeria
ID-PC-3076	Khouloud Gherbi, Med Tahar Kadri and Hafid Belkhir	Comparative study of the geometric structure, electronic, and vibrational properties of graphene and silicene: DFT study Department of physics, Laboratory of studies of Surfaces and Interfaces of Solid Matter (LESIMS), University of Badji Mokhtar, Annaba
ID-PC-3077	Khouni Soumia, Bourouina Hicham, Lamari Abir, Mektout Mohamed and Maiza Yahia	Resonance frequency modeling of thermally excited functionally graded porous nanobeam using differential quadrature method Department of Physical Sciences, Higher Normal School of Bou-saada, Bou-saada, 28200, Algeria...



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3078	LAIB Nouri, BENYAHIA Azzedine,DEGHFEL Nadir, BENYAHIA Azzedine, LEBID Mahmoud	Valorization and chemical treatment of Cynodon fiber using sodium hydroxide/unsaturated polyester Inorganics Materials Laboratory, University of M'sila, Algeria
ID-PC-3079	LAIDANI Zin el abidine, Mohamed SAHRAOUI ,Younes OULDKHAOUA	Analyzing the performance of self-compacting mortar incorporating brick powder using artificial neural networks Civil engineering department, University of Blida 1
ID-PC-3081	Leila CHABANE, Kaouther EZZROUG, Amel LOUADJ, Omar BOURAS	Characterization of Cellulose Nanocrystals extracted from industrial cotton waste Process Engineering Department, Blida 1 University, Water Environment and Sustainable Development Laboratory,
ID-PC-3082	Leila Lamiri , Boussaha Bouchoul, Hassan Hammouchi, Lasmi Sofiane, Ouafia Belgherbi, Assia Tounsi, Merabet Safia, Katib Hamlaoui, Khemliche Hamza, Radhia Khouatra	Synthesis and Characteristics of Graphene oxide for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014, Algiers, Algeria
ID-PC-3083	LOT Hadjira , TEMMAR Mustapha and MELZI Nesrine	Enhancing Surface Roughness in Steel Machining: A Comparative Study of Ceramic Tools. Department of Mechanical engineering, Structure Laboratory 'LS', BLIDA1 University, Blida, Algeria.
ID-PC-3084	Lotfi DAOUD	Simulation of crack propagation in an aluminium alloy plate (5083 H111) Mechanics of Materials and Plant Maintenance Research Laboratory (LR3MI).
ID-PC-3085	Loubna DAOUD, Sadjia BENNOUR	Biodegradable hydrogel based on natural biopolymer as an environmentally and efficient coating material for controlled release fertilizer Laboratory of Polymer Materials, Faculty of Chemistry, University of Sciences and Technology Houari Boumedienne (USTHB), Algiers, Algeria.
ID-PC-3086	Louiza Sadoun, Karima Seffah, Abdelbaki Benmounah	Characterisation of a totally new material derived from the recycling of a natural by-product Process Engineering Department, Faculty of Sciences, Abdellah Morsli University Center, Tipaza, Algeria
ID-PC-3088	Lylia Amirache, Fatiha Barka-Bouaifel and Rabah Boukherroub	Efficient Catalytic Degradation of Rhodamine B and Pentachlorophenol with Cobalt Sulfide-Reduced Graphene Oxide and Peroxymonosulfate Laboratoire de Technologie des Matériaux et de Génie des Procédés (LTMGP), Faculté de Technologie - Université de Bejaia, 06000 Bejaia, Algeria



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3089	Mohammed Amin BOUARROUDJ, A. Mechri and A. Zergua	Strengthening Reinforced Concrete Beams Subjected to Shear Stresses using CFRP Laminates Civil engineering department, Scientific Institute, U. C. Tipaza, Algeria
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Poster Session II (Topic 1, 2, 4):

Presidents Session :

- Ghezal youcef
- Cherabli Meriem
- Yousfi Mohammed
- Badis Dalila
- Benamour Affef
- Laouamer Mesbah
- Djafer Lakhdar

ID-number	Authors	Titles
ID-PC-1001	Ali Bendjaghlouli, Brahim mahfoud	Heat transfer from a nanofluid in a conical container Abdelhafid Boussouf University - Mila
ID-PC-1002	Fatima Merdj, Nouredine Bensdira and Said Drid	Analysis and Study of an Induction Heating Device :LSP-IE Research Laboratory, Electrical Engineering department, University of Batna 2, Algeria,
ID-PC-1003	N. Rabeh, M. Baghdad	Numerical simulation of leading-edge protuberances on airfoil performance at low Reynolds number Faculty of Science and Technology, Tissemsilt University
ID-PC-1004	Nabila BENMEDDAH , Fatma TEMMAR Nouria BENKHALED	Inorganic nanomaterials properties in solar filters Materials Computational Physics Laboratory, Djillali Liabès University, Sidi Bel Abbès 22000, Algeria
ID-PC-1006	Sofyane Boudouani, Adil Yahdou and Zinelaabidine Boudjema	orduino car equipped with a camera controlled remotely (Wifi) by a web browser Mechanics Research Center (CRM), 25000, Constantine, Algeria
ID-PC-1007	Touil issam	Simulation of the dynamic behavior of a spheroidal graphite cast iron destined for the industry of a wind turbine mast University of El OUED, Fac. Technology, Dept. Mechanical



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		Engineering 39000 El OUED, ALGERIA
ID-PC-1008	Mohrem Abdelkarim, Guia Housseem, Meneceur Redha	Design and implimentation of four quadrants energy metering system University of El OUED, Fac. Technology, Dept. Mechanical Engineering 39000 El OUED, ALGERIA
ID-PC-2005	Abdellah Azzala ; Boualem Chetti and Ibrahim Zidane	Steady state characteristics of journal bearings lubricated with Ferrofluid under of the effect of elastic deformation Mechanical Engineering Department, Faculty of Technology, Hassiba Benbouali University of Chlef, Hay Salem, national road N 19 -02000, Algeria
ID-PC-2006	Adel Bouali, Salah Hanini	Prediction of Heat Transfer Coefficient During Film Boiling of Water Using Artificial Neural Network Laboratory of Biomaterials and Transport Phenomena (LBMPT), University of Medea, Algeria
ID-PC-2007	Afaf BENAMOR , Imade Kaid , Sabrina HERR , Madiha MAAMIR ,	Model Predictive control of a Permanent Magnet Synchronous Generator University of El-oued
ID-PC-2008	Afaf Brik, Sabrina Naama, Karima Benfadel Bouachma Souraya Toufik Hadjersi, Saif eddine Friha	CeO₂/NiO Modified Silicon Nanowires for Tetracycline Removal under Visible Light: Photocatalytic Performance Research Centre of semi-conductor Technology for Energy, CRTSE-02, Bd.Dr.Frantz FANON, B.P.140 Algiers-7, Merveilles, 16038, Algeria
ID-PC-2009	AKROUD Karima ZANAT Kamel	Electronic and Optoelectronic Properties of M₂X₂ 2D Monolayer for Photocatalytic Water Splitting and Infrared Detection: DFT Study Physics laboratory at Guelma
ID-PC-2010	Ali Bebboukha , Redha Meneceur ,Chouaib Labiod ,Abdelmoumene Hechifa	Optimization of Power Output in Photovoltaic Systems: A Comparative Study of MPPT Techniques Department of Mechanical Engineering, University of El Oued, UDERZA Unit, Algeria
ID-PC-2011	Amine Mehdi FIAKHIR , Abdesselam GUERBOUZ	Robust Control Strategies for DFIG Power Used for Wind Turbine University of Ghardaia
ID-PC-2012	Ammi Hadjer , Charifi Zoulikha and Baaziz Hakim and Ghellab Torkia	Structural and Electronic Properties Analysis of Cs₂XBr₆ (X=Ge and Si) Perovskite Compounds for Photovoltaic Applications University of Bouira



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-2013	Anfal Benrezkallah Yacine Marif and Mohammed Elbar Soudani	Study the Thermal Efficiency of a Parabolic Trough Collector (PTC) using Water and Synthetic Oil as Heat Transfer Fluids Laboratory for Development of New and Renewable Energies in Arid and Saharan Zones, Faculty of Mathematics and Matter Sciences, University of Kasdi Merbah Ouargla, Ouargla 30000, Algeria
ID-PC-2014	AROUDJ Mohammed REMHA Souhaib, MAHMOUDI Abdelkader, MILOUDI Khaled, LAOUAMER Mosbah	A Comparative Study of Horizontal Axis Wind Turbines (HAWT) and Vertical Axis Wind Turbines (VAWT) in Wind Energy Generation Univ El Oued
ID-PC-2019	BOUGUERGOUR Yassine, MOKHTARI Abderrahmane Mejedoub, MENHOUDJ Sayeh	Influence of water temperature from the supply system on solar hot water production system Department of Civil Engineering, Materials, Soil and Thermal Laboratory (LMST), University of Science and Technology of Oran Mohamed Boudiaf, USTO-MB, BP 1505, El M'naouar, BP 1505, Bir El Djir 31000, Oran, Algeria.
ID-PC-2020	Bouragbi lakhdar, Lekouaghet Nassima, Khadraoui Rachdi. Brahim Mahfoud	Minimizing Irreversibilities in Minichannel Solar Collectors: A Computational Study on Optimal Working Fluid Selection Department of Process Engineering, University of 20th August 1955-Skikda, Algeria
ID-PC-2021	BOURAHLA Nassima , HABBOUCHE Youssra ,TIFOURA Nabila	Numerical Simulation of dual layer perovskite solar cell MAPbI₃/MASnI₃ by using TCAD –SILVACO tool University center of tipaza Morsli Abdellah
ID-PC-2022	Chahrazed Boucetta, Amir Berche1, Mohammed Amin Nassim Haddad, Atef Chibani , Slimane Merouani.	Optimizing Heat Transfer in Gallium PCM Systems Using Magnetic Fields and Buoyancy Forces 1Department of Physics, LMSSEF, University of Larbi Ben M'hidi, 04000 Oum El Bouaghi, Algeria
ID-PC-2023	Chiraz Soundes Bouaita,, Badis bennecer	Ab intio calculations of semiconducting CdS and CdSe 1Department of physics/Laboratory of condensed matter physics, University 08 May 1945 Guelma, Algeria
ID-PC-2024	Fethi DJAAD Sahraoui KHERRIS , Brahim MEBARKI Zakaria RAHMANI, ZEBBAR Djallel, Kouider Mostefa	Numerical study to evaluate the effect of fin distribution changes on the thermal performance of a PCM filled triplex tube Department of Science and Technology, Laboratory of Mechanical Engineering, Materials and Structures, Tissemsilt University, Algeria
ID-PC-2025	H. Rekkache, L. Bechiri, N. Benslim and L. Yandjah	Properties of iron-based thin film solar cells Laboratory for the Study of Surfaces and Interfaces of Solid Matter (LESIMS), Department of Physics, Faculty of Sciences, Badji Mokhtar-Annaba University, Algeria



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-2026	Horr Sabrina , Horr Riad , Benamor Afaf and Maamir Madiha	Thermal Performance Analysis of 3D Solid Oxide Fuel Cells: A Comparative Study of Anode-Supported, Cathode-Supported, and Electrolyte-Supported Configurations University of Echahid Hamma Lakhder Eloued
ID-PC-2027	Ihssène OUARED, Maâmmar REKIS	Photovoltaic cells: Pyran based organic dyes for DSSCs Laboratory of theoretical chemistry, computational and photonics Faculty of chemistry, university of science and technology Houari Boumediene.
ID-PC-2031	LOUNAS.K, AROUS MADI.F	Effect of wettability on the evaporation of a sessile droplet Department LMFTA, USTHB, Faculty of Physics, Algeria
ID-PC-2032	Maamar Sameut Yamina, Medjahed Khaldia, Krache Farial, and Bendenia Mokhtaria	Survey On The Use Of Synthetic Chemical Pesticides In Agriculture In The Chlef Region: Trends And Impacts. Faculty of Natural and Life Sciences, Hassiba Benbouali University of Chlef, Laboratory of Management and enhancement of Agricultural and Aquatic Ecosystems, Tipaza, Algeria.
ID-PC-2033	Mallik Lynda, Bensider Nora, Bendjenne abdelghani, Chelbi fatma zohra	3D Numerical Investigation of an Air Based Hybrid PV/T Solar Collector Featuring Innovative parallelepiped Fins Department of Energetics and Fluid Mechanics,University of Science and Technology Houari Boumediene (USTHB),Bab-Ezzouar, Algiers, Algeria
ID-PC-2034	Miloudi khaled Laouamer mosbah, Aroudj mohammed, Remha Souhaib, mahmoudi Abdelkader	Diagnosing Faults in Solar Energy Systems: Innovative Tools and Methods Department of Mechanical Engineering, University of El Oued, Algeria
ID-PC-2036	Mohammed Amin Nassim Haddad, Chahrazed Boucetta, Atef Chibani, Slimane Merouani	Impact of PCM Distribution on Heat Transfer Efficiency in Hydrogen Storage Reactors LMSEA, Mechanical Engineering Department, National Polytechnic School of Constantine, BP75, A, Nouvelle Ville Ali Mendjli, Constantine 25000, Algeria
ID-PC-2038	Mohand Berdja , Ferhat Yah, Ali Tetbirt, Mehdi Mokrane, Maamar Ouali1 and Mohamed Ali Djebiret	Theoretical Study of the Feasibility of a Geothermal Heat Exchanger for Cooling a Solar House UDES epst CDER
ID-PC-2040	N. Helaïli Y. Brssekhouad and M. Trari	Photodegradation of orange II and n-Chloro-benzoique by the hetero-junction CuFe₂-xMnxO₄/ZnO under solar light Laboratory of Storage and Valorization of Renewable Energies, Faculty of Chemistry, UST.H.B., BP 32, 16111 El-Alia,



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		Algiers, Algeria
ID-PC-2041	Nabila AISSIOU, Fahim HAMIDOUCHE	Investigation of Porous Carbon Fiber Films Derived from Soda Lignin, $Mg(NO_3)_2$, and PVP for Supercapacitor Applications. Laboratory of Polymer Materials, Department of Macromolecular Chemistry, Faculty of Chemistry, University of Houari Boumediene University of Science and Technology, BP 32, 16111 El Alia, Bab Ezzouar, Algiers, Algeria.
ID-PC-2042	Nora Bensider , Ziad Latamna	Numerical Investigation of the effects of a turbulent plane jet on a Heated cylinder Theoretical and Applied Laboratory of Fluid Mechanics, Faculty of Physics, USTHB
ID-PC-2043	Noureddine MENECEUR , Aliouat Khadra, Yacine AOUN, Mohammed Tayeb Oucif Khaled	Experimental Analysis of the Thermal Behavior of an Indirect Solar Dryer with Heat Storage Collector Mechanical Engineering Department, Faculty of Technology, EL-Oued University- PB 789 El Oued – ALGERIA
ID-PC-2044	RAHMA Elhadj , TAHRI Toufik and DEKKICHE Mohamed	Study and simulation of a hybrid PV/FC system with a load Hassiba Benbouali University de Chlef, Chlef, Algeria
ID-PC-2045	Razika Brahimi, Afaf Benseddik and Mohamed Trari	Methyl Orange degradation under solar and visible lights on (g-C3N4/TiO2) heterojunction U.S.T.H.B.
ID-PC-2047	Saddam Hocine MELLAH, Samir LAOUEDJ, Ali BOUZIANE2, Ilias BENYAHIA, manal LAKHDARI, Abderrahmane AISSA	Effects of rectangular fin arrangement on the melting process of NEPCM in a thermal energy storage system University of Mustapha Stambouli of Mascara
ID-PC-2048	Sofiane Benchamma , Mohammed Missoum, Nefissa Belkacem	Modeling and simulation of a direct expansion solar assisted heat pump for domestic hot water production 1Laboratory of Control, tests, measures and mechanical simulations, Faculty of Technology, Hassiba Benbouali University of Chlef.
ID-PC-2049	TIOUR Fahem, IDRES Abdelaziz, YAHIAOUI Younes	Evaluation de l'impact des poussières sur la dégradation du sol et de l'eau Cas de la mine de l'Ouenza. Tébessa - Algérie. Science et technologie, Université Abderrahmane Mira de Béjaia- Algérie.
ID-PC-2050	Youcef Benettayeb , Abderrahmane Benbouali , Toufik Tahri , Alouche benali	Numerical Simulation of Sloped Absorber Surface Effects on Solar Chimney Power Plant Performance Hassiba Benbouali University of Chlef.



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC- 2051	Youssef Bouthiba Billel Meghni and Ali Belhamra	DC Link Control of the Grid Connected PV System Based on the FOPI Controller Electromechanical Department, Faculty of Technology, Badji Mokhtar University of Annaba, Laboratoire des Systèmes Electromécaniques (LSELM), Annaba 23000, Algeria
ID-PC-2052	Youssef Bouthiba , Billel Meghni and Ali Belhamra	Active and Reactive Power Control Based on the DPC-FLC Technique of a Grid-Connected Hybrid Energy System (Wind/Battery) Electromechanical Department, Faculty of Technology, Badji Mokhtar University of Annaba, Laboratoire des Systèmes Electromécaniques (LSELM), Annaba 23000, Algeria
ID-PC-2053	Zakaria KOREI	Simultaneous effects of a partial low power magnetic field inducer and porous fins in a solar collector Center of Research in Mechanics (CRM), 25000, Constantine, Algeria
ID-PC-2054	ZAOUI Sara, Abdelmalek Kouadri , Mohamed-Faouzi Harkat	Enhanced Fault Diagnosis in Photovoltaic Systems Using MSPC and Machine Learning Signals and Systems Laboratory, Institute of Electrical and Electronics Engineering, University M Hamed Bougara of Boumerdes, 35000, Boumerdes, Algeria,
ID-PC-2056	S. Bouraghda, N.Mezhoud, R. Sadouni	An Optimal Sliding Mode Control for Power quality Improvement in Grid System Connected with a Wind Turbine Department of electronics Institute of Sciences University Center of Tipaza.Algeria
ID-PC-2057	Yousfi Abdelkader, Youcef Bot, Faycal mehedi	MPPT Method Using the P&O Algorithm for Photovoltaic Applications Under Partial Shading Conditions Acoustics and Civil Engineering Laboratory, Faculty of Science and Technology, University of Khemis-Miliana, Algeria
ID-PC-2058	Iguercha Amina, sadij Amel, and Djamel eddine kari	Decarbonizing our drinking water distribution Network Department of mechanical engineering, faculty of technology, laboratory of motor dynamics and vibroacoustics (LDMV), M'hamed bougara university of boumerdes, Boumerdes, Algeria
ID-PC-2059	Younes YAHIAOUI , Djamel NETTOUR , Abdelaziz IDRES	Study of the distribution of trace elements in the phosphate waste from Djebel-Onk (Tebessa) and their impact on the environment L3M Metallurgy, Materials and Mining Laboratory, National Higher School of Technology and Engineering, Annaba-Algeria
ID-PC-2060	Naoual HOUAIDJI, Baghdadi CHOUIAL , Marwa Bendaia , Asma KHADRAOUI , Bouzide HADJOUJJA , kenza KAMLI , Zakaria HadeF	Pyrite (FeS 2) Thin Films Deposited By Ultrasonic Spray Method for Solar Cell Application Département de physique, Faculté des Sciences et de la Technologies, Université Chadli Bendjedid El-Tarf, Algérie



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-2061	Badis Tarek, Bennaceur Mohammed amine	E-Pump Preliminary design for small launch vehicle applications and CFD computational Fluid Dynamic Analysis Sattelite development center-Algerian space Agency-USTO Bir El Djir- Oran
ID-PC-4001	A. Aissou, A. Daamouche, and M. R. Hassan	Optimal Components Assignment Problem For Stochastic-Flow Networks CU-Tipaza
ID-PC-4002	Abdelkader Mahmoudi, Khaled Miloudi ; Louamer Mosbah ; Mohamed Aroudj and Souhaib Remha	Avanced Fault Detection in photovoltaic (PV) Systems Using Hybrid Univ –El Oued
ID-PC- 4004	Abdelmoumene Hechifa, Abdelaziz Lakhel, Chouaib Labiod, Redha Meneceur, Ali Bebboukha, Said Djaballah	A comparative study for diagnising and detecting faults in power transformers LGMM Laboratory, Faculty of Technology, University of 20 August 1955-Skikda, Algeria
ID-PC-4005	Azeddine BELOUFA, Abderrahmane KACIMI, Souaad. TAHRAOUI, Abdelmalik DJARIR	Backstepping Control Enhanced by Water Cycling Algorithms Applied on TRMS Electronic Departement, Hassiba Benbouali University, Chlef Algeria, Laboratory of Electrical Engineering and Renewable Energies(LGEER), Chlef Algeria
ID-PC- 4006	Bezzar Nour El Houda, Meraoumia Abdallah, Lotfi Houam	Comparative evaluation of methods for predicting home electricity consumption Electrical Engineering Department, Mining Laboratory, University of Larbi Tebessi, Tebessa, Algeria
ID-PC- 4007	Bouzateur Inas, Bennacer Hamza, Hadjar Hakima	An improves artificial neural network –fromwork for chalcopyrites energy band gap prediction LASS Laboratory of Analysis of Signals and Systems, Department of Electronics, Faculty of TechnologyUniversity of Mohamed Boudiafof M'SilaB.P. 166, Ichbilia, M'sila, 28000, Algeria
ID-PC- 4009	CHERABLI Meriem, OURBIH Megdouda	Efficient Random Number Generator Based on RDS Method Applied Mathematics Laboratory, FSE, University of Bejaia
ID-PC- 4010	Fayçal Mehedi, Ismail Bouyakoub, Abdelkader Yousfi, Mohammed Salah Eddine Zirar, Zakaria Reguieg and Fatiha Bouhadji	Performance Evaluation of Adaptive Fuzzy Control System for a Multi phase Induction Motor Fed by a Matrix Converter Laboratoire Génie Electrique et Energies Renouvelables (LGEER), Hassiba Benbouali University of Chlef, Algeria



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC- 4011	Fayçal Mehedi, Ismail Bouyakoub, Abdelkader Yousfi, Rachid Taleb, Zakaria Reguieg and Fatiha Bouhadji	Optimum Design of Hybrid Control Fuzzy Second Order Continuous Sliding Mode Applied to a Five Phase PMSM Drives Laboratoire Génie Electrique et Energies Renouvelables (LGEER), Hassiba Benbouali University of Chlef, Algeria
ID-PC- 4012	Habiba HOUARI, Souaad. TAHRAOUI, Rachid TALEB, Elhadj Bounadja	Optimization of PID Parameters in Suspension Systems : Metaheuristic Approaches and Artificial Intelligence National Polytechnic School of Oran, Laboratory of Tlemcen–MELT, Algeria
ID-PC- 4013	kaci yasmina, Maaoui Asma	Intelligence artificielle Ingénierie Algorithmes et langage CU-Tipaza
ID-PC- 4015	KESSAI Lamia, ATMANI Youcef and MALKI Maamar	Enhancing ANN Capacity for Detecting Rotating Machinery Faults through the Adoption of Empirical Mode Decomposition Departement of Mechanical and Production Engineering, National Higher School of Advanced Technologies
ID-PC- 4017	KHAZZAR Ali , BENATIALLAH Djalloul , HARROUZ Oussama	Estimating Solar Radiation in El Oued City Using an Advanced Approach Combining Artificial Neural Networks (ANN) and Particle Swarm Optimization (PSO) Computer Science (LSDCS) University of Adrar, Algeria
ID-PC- 4018	LAOUAMER Mosbah, AROUDJ Mohammed, REMHA Souhaib, MAHMOUDI Abdelkader, MILOUDI Khaled	Optimal Integration of WT-DG in a Distribution Power System Using PSO University of El-Oued, El-Oued, Algeria
ID-PC- 4020	Mostefaoui, Tahraoui Souaad, Bazi Narjes and Bouziane Abderazak	Improving Twin Rotor MIMO System Performance Using Proportional-Integral-Derivative Control University of Chlef, Algeria.
ID-PC- 4021	Nadaelrihane MECHEHAT, Djilani NECIB, Mondir SOUALAH and Khouala MAOU	The Role of Magnetic Field Intensity in Controlling Cutting Temperature for optimizing Manufacturing Efficiency Department of Mechanical Engineering, University of Eloued, ALGERIA
ID-PC- 4022	Samah Boudour, Hamza Khemliche, Meriem Messaoudi, Ouafia Belgherbi, Leila Lamiri, Idris Bouchama	Shape Optimization of Digital model Using Matlab Tool Center in Industrial Technologies CRTI, P. O. Box 64, Cheraga 16014, Algiers, Algeria
ID-PC- 4023	Samiha LARABA, Ilyes BEKHEIRA, Ridha MAZOUZI, Benyoucef KHELIDJ	AI-Driven Fault Diagnosis and Control in Automotive Engine Oil Monitoring: A Case Study of 10W40 Oil Performance Analysis Laboratory of Industrial Fluids, Measurements and Applications (FIMA) Mechanical Engineering Department, Faculty of Technology Djillali Bounaama University of Khemis



People 's Democratic Republic of Algeria
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University Center Of Tipaza –Morsli Abdallah-
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		Miliana, theniet elhad road, 44225, Algeria
ID-PC-4026	Moufida Boukhtouta	Simulation study of the structural and mechanical properties of the TINi alloy and its hybride TiNiH Univ –Annaba

Poster Session III (Topic 3):

Presidents of Session :

- Bouaroudj Mohammed Amine
- Irki Ilyes
- Abdellah Sadki
- Ziane Sami
- Achour Abderraouf
- Abdelhadi Sofiane
- Abelmalek Samir
- Bensalem Ahmed

ID-number	Authors	Titles
ID-PC-3090	Mahdi Mansour	Effect of Gamma Radiation on Optical Properties of LiNbO3 Wafer: Application to the Degradation of Methyl Orange Under Solar Light USTHB
ID-PC-3091	MAHROUA Ousama, BERRACHED Ismahane, ALILI Baya, TRARI Mohamed	Semiconducting and photoelectrochemical properties of the oxide AgMnO2 USTHB
ID-PC-3093	Maria Bouzid, Abdessabour Benamo, Nabil Chiker, Billel Cheniti, Mohamed Hadji, Riad Badji	Microstructure, Hardness and Wear Behavior of Novel AZ31B Mg Alloy Surface Composites Reinforced by Select MAX and MAB Phases Laboratoire d'Etudes et Recherche en Technologie Industrielle, University of Blida 1
ID-PC-3094	Maroua Bensalem and Ouanassa Guellati	Nickel Copper Ratio Effect on Nanohybrid Products Electrochemical Performance For Energy Storage Mohamed Chérif Messaadia University, BP. 1553, Souk-Ahras 41000, ALGERIA



People 's Democratic Republic of Algeria
Ministry of Higher Education &Scientific Research
University Center Of Tipaza –Morsli Abdallah-
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ID-PC-3096	Massinissa GRABI, , Ahmed Chellil, Samir Lecheb, Hocine Grabi, Abdelkader Nour	Experimental Study on the Low-Velocity Impact Behavior of Luffa/Epoxy Composites Mouloud Mammeri-Tizi Ouzou University
ID-PC-3098	Mekahal Abdelhamid, Raouach Elhadj, Fares Khalfallah	Materials Rotary friction welding dissimilar Univercity zian achour Djelfa
ID-PC-3101	Meriem Messaoudi,Messaouda Khammar, Samah Boudour, Lynda Beddek, Hamza Khemliche, Ouafia Belgherbi, Leila Lamiri, and Assia Tounsi	Microstructure characterization and electrochemical behavior of 316L stainless steel weld bead manufactured by Cold Metal Transfer (CMT-WAAM). Research Center in Industrial Technologies CRTI, P. O. Box 64, Cheraga 16014, Algiers, Algeria
ID-PC-3102	Meriem Meziani	Mechanical and thermal behavior of geopolymers mortars University A. MIRA of Bejaia
ID-PC-3103	Mohamed Ali ARBAOUI	Treatment of water in oil field Ouargla University
ID-PC-3105	Mohamed SAHRAOUI, Younes OULDKHAOUA2, Zine El-Abidine LAIDANI3, Mohamed El Ghazali Belgacem	Optimizing Sand Concrete with Artificial Neural Networks A sustainable approach using local materials Institute of Architecture and Urbanism of Blida 1, Algeria
ID-PC-3106	Mohamed Zakaria ZAHAF, Mohieddine BENGHERSALLAH, Abdelaziz AMIRAT, Nacer MOKAS and Said BOUDEBANE	Effect of tempering temperature on the microstructure and EDS microanalysis of AISI D3 tool steel Mechanics Research Centre, P.B. 73B, 25021, Constantine, Algeria
ID-PC-3108	Mourad Bendifallah, Amor Bouebbou, Mourad Mezoudj, Iman Rezgue and Abderrahim Belloufi	Study of the Length and Elongation of A3 Steel During Friction Welding Mechanics Research Center, CRM, Constantine, Algeria
ID-PC-3110	Nabila Nedjari, H.Balard, J.B.Donnet	Variation in surface properties of silica pyrogenic depending on their specific surfaces. Study by Inverse Gas Chromatography. University Center Morsli Abdellah, Tipaza,
ID-PC-3111	Nassima Bourahla, Youcef Khedim, Fares meghaouzel	Performance study of the innovative nano-transistor dual channel 4H-SiC/3C-SiC- GAA-FinFET by using TCAD-Silvaco Electronic department, Institute of science and technologies, Algeria
ID-PC-3113	Nour El Houda Belkafouf , Rachida Rahmani, Merzouk Saidj, Besselma Sarra and Abdelkader. Chouaih	A novel non fullerene electron transporting material for efficient organic solar cells Department of Process Engineering, Laboratory of Technology and Solid Properties (LTPS), Faculty of Sciences



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		and Technology, Abdelhamid Ibn Badis University of Mostaganem, 27000 Mostaganem, Algeria
ID-PC-3114	Ouafia Belgherbi, Lamria Seid , Souad Laghrib , Leila Lamiri, Samah Boudour, Meriem Messaoudi, Assia Tounsi, Boussaha Bouchoul, Hamza Khemliche	Synthesis, characterization and effectiveness inhibition behavior of polyamide11/polyaniline on the corrosion of carbon steel in 1.5M HCl medium Research Center in Industrial Technologies CRTI, P.O.Box 64, 16014 Cheraga, Algiers, Algeria
ID-PC-3116	OULDKHAOUA Younes, LAIDANI Zine El Abidine , SAHRAOUI Mohamed and Belgacem Mohamed EL-Ghazali	Rheological and Mechanical Properties of Self-Compacting Mortar Incorporating Natural Pozzolan as a Substitute for Both Cement and Sand Building in Environment Laboratory, Faculty of Civil Engineering, USTHB, Algeria
ID-PC-3118	Randa Slatnia, Lakel Abdelghani	Comparison of various thickness of nickel sulfide thin films prepared by spin coating method Biskra University
ID-PC-3120	Ranida Bourhefir, Hanane Saidi, Nadjette Hamani, Abdellah Attaf, and Okba ben khetta	The effect of Li doped In₂O₃ thin films on structural and optical properties deposited by ultrasonic spray Mohamed khieder university, Biskra
ID-PC-3123	RENNANI Fatima Zahra, MAKANI Abdelkadir and BADAQUI Mohamed	Correlation Between Nondestructive and Destructive Testing for On-Site Concrete Strength Assessment UNIV TAHRI MOHAMED BECHAR
ID-PC-3124	Sabiha Matassi, Laàldja Meddour-Boukhobza, Oumessaàd Benturki	Catalytic hydrogenation of 2-nitrophenol to 2-aminophenol counterparts over spinel mixed oxides prepared by Hydrothermal method 1-Laboratory of Materials, Catalysis and Environment, Faculty of Chemistry, Houari Boumediene University of Sciences and Technology. 2-Faculty of Sciences, Ben Youcef Benkhedda Alger 1 University
ID-PC-3125	Sadji Amel, Mohamed Redda Boudchicha, Derbali Abir, Iguercha Amina	Effect of foaming agent on the microstructure and mechanical strength of glassceramic foams Laboratoire de Technologie Des Matériaux Avancés, Ecole Nationale Polytechnique de Constantine
ID-PC-3127	Sarra BOUCENNA, Assia BENOUEATAS	First-Principles Investigation of the Physical Properties of Ca₄GeN₄ Under High Pressure and High Temperature Physics Department, University of Setif1 , Setif , 19000, Algeria
ID-PC-3128	Sarra Mezaouri , Sidi Mohamed Aissa Mamoune and Hocine Siad	Recycling waste glass to produce environmentally-friendly materials Department of Civil Engineering, University of Ain Temouchent,



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3129	Sawsen BELBAHI, Malika LABIDI, Salima LABIDI and Rachid MASROUR	Investigated the structural, electronic and magnetic properties of oxide perovskite CaMnO_3 employing the DFT approach LNCTS Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria.
ID-PC-3130	Seid Lamria, Belgherbi Ouafia, Aroui Linda and Chouder Dalila	Influence of the concentration of dopant on antibacterial properties of PVA/ polyaniline-silver composites powder Laboratoire d'Energétique et d'Electrochimie du solide;Faculté deTechnologie. Ferhat Abbas University, 19000 Sétif, Algeria
ID-PC-3131	Selma TOUAM Maroua GACEM , Ines CHAREF , Ibtissem BENDJEDIDE , Amel GASMALLAH , Fatma GUENFOUD	Calculation of the 1st principle of the fundamental properties of the ternary alloy($x=0,0.25,1$) Chadli Bendjedid University (UCBET)
ID-PC-3132	Settari Chafika, Irki Ilyes and Debieb Farid	Recycling of aggregates pavement in the formulation of road layers Yahia fares university
ID-PC-3133	Sidali DENINE, Monsif DRISSI, Yacine ABBAS	Shear interface of geotextiles with sand prepared at different moisture contents Civil Engineering Department, Sciences Institute, University Center of Tipaza
ID-PC-3134	Siham BENGHABRIT, Mohamed SEDDAR YAGOUB and Mohamed ADNANE	Advanced Simulation of SnS-Based Solar Cells Through the SCAPS-1D: Evaluating Efficiency and Performance LMESM, Faculté de physique, Université des sciences et de la technologie d'Oran-MB-ORAN, Algérie
ID-PC-3135	Sihem ALIOUCHE, Ibtissem BOUSNOUBRA and Halima ALIOUCHE	Use of metal ions in the presence of hydrogen peroxide for the treatment of industrial effluents University Center Morsli Abdellah, Institute of Sciences, Tipaza, Algeria
ID-PC-3136	Soraya Bouachma, Afaf Brik, Sabrina Naama, Sihem Aissiou, Toufik Hadjersi	Elaboration and characterization of Layered double hydroxides based electrodes for electrochemical storage Centre de Recherche en Technologie des Semi-conducteurs pour l'Energétique (CRTSE), Bd Frantz Fanon, BP 140 Alger-7 Merveilles, 16038 Algiers, ALGERIA
ID-PC-3137	Tadeght Mohammed, Mourad Bendifallah, Abdelkrim Mourad, Iman Rezgue, and Abderrahim Belloufi	Influence of Cutting Speeds on Cutting Tool Wear and on Quality Machining Mechanics Research Center, CRM, Constantine, Algeria
ID-PC-3138	TIAIBA Wafa, BOUCHAREB Samira	Physico-chemical and mechanical characterization of polymer composite reinforced by waste residue of MAGHREB PIPE University of Mohamed Boudiaf, M'sila



People 's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



ID-PC-3139	Toumi Youcef, Guettioui Merouane	Utilization of recycled concrete powder as a sustainable supplementary cementitious material in flowable sand concrete University of Mentouri Brothers Constantine 1
ID-PC-3141	Yassine ABBAS, Rachid DJEBIEN and Sidali DENINE	Utilization of marble powder as a cement substitute in high-performance concrete Civil Engineering Department, Sciences Institute, University Center of Tipaza
ID-PC-3143	Youcef Bali and Said Idekki	Impact of Palm Wood Powder Addition on the Thermal and Mechanical Characteristics of Fired Earth Bricks Laboratory of Natural Resources Exploitation and Development in Arid Zones, Kasdi Merbah University, Ouargla, Algeria Laboratory LGEA, Civil Engineering Department, Faculty of Construction Engineering, University Mouloud Mammeri of Tizi Ouzou, 15000 Tizi-ouzou , Algeria
ID-PC-3144	Younes Abderrahmane, Boudraa Saliha , Seghier Tahar , Ghoulane Ismail	A Comparative Experimental Study of Mineral and Environmental friendly oils for power transformer Insulation Materials in electrotechnical
ID-PC-3145	Zine El Abidine LAIDANI, Mohamed SAHRAOUI, Younes OULDKHAOUA ,And Balgacem Mohamed EL GHAZALI	Analyzing the Performance of Self-Compacting Mortar Incorporating Brick Powder using Artificial Neural Networks Civil engineering department, University of Blida1, Algeria
ID-PC-3146	Zohra Yellas, Mahmoud Riad Beghoul and Azzedine Boudrioua	Quasi-phase matching in Periodically Poled GaN materials University of Jijel
ID-PC-3147	Fayçal Oumelaz, Ouarda. Nemiri, Djamal. Boudjaadar, Rabab Benredouane and Akila Boumaza	First-principles investigations of physical properties of $\text{In}_x\text{B}_{1-x}\text{Sb}$ ternary alloys Laboratory of Physical Chemistry and Biology of Materials (LPCBM), Department of Physics, High School of Technological Teaching of Skikda, Algeria
ID-PC-3148	Maroua GACEM, Touam Selma, Guenfoud Fatma and Bendjedide Ibtissem	First-principles study of the properties of YP1-xSb_x alloys Chemistry of materials Laboratory (LPCM), Department of Physics, Faculty of Science and Technology, Chadli Bendjedid University (UCBET), El Tarf 36000, Algeria.
ID-PC-3149	Sara Hamiouda, Marouene El-Robrini	Innovative Eco-Friendly extraction and characterisation of a powdered food supplement: physicochemical and biochemical insights Process engineering department, university center Tipaza, Morsli Abdellah
ID-PC-3150	Samira Bouchareb, Tiaiba wafa, Rokbi Mansour	Manufacturing and characterization of bio composite materials based on polyester resin and natural fibers Department of mechanical engineering, faculty of technology, university mohamed boudiaf of M'sila (28000),



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University Center Of Tipaza –Morsli Abdallah-
Institute Of Sciences



		Algeria.
ID-PC-3151	Mania TERKI, Fatma AHNIA, Mohamed Mehenni and Salim TRIAA	Microstructural Characterization and Mechanical Properties of Al-Fe Powder Forming via Compression and Sintering Laboratory of Material Science and Engineering, University of Science and Technology USTHB 16311, Algiers, Algeria,
ID-PC-3156	Dalila Badis, Taou Hamad	Characterization Of Rosmarinus Officinalis Used For the Adsorption Of Malachite Green Process Engineering Department, Blida 1 University, Water Environment and Sustainable Development Laboratory, Blida-Algeria
ID-PC-3157	Labiod Chouaib, Meneceur Ridha , Zine Bachir , Ali Beboukha , Abdelmoumene Hechifa , Lamine Medekhel	Adaptive Model Predictive Control for Improved Performance of Three-Phase Inverters under Nonlinear Inductance Conditions 1 Mechanical Engineering Department, Faculty of Technology, University of El Oued, El Oued 39000, Algeria 2 LGMM Laboratory, Faculty of Technology, University of 20 August 1955-Skikda, PB N° 26 Route Elhadaik, Skikda 21000, Algeria 3Laboratory of Energy Systems Modeling (LMSE), Department of Electrical Engineering, University of Biskra, BP 145, Biskra 07000, Algeria
ID-PC-3158	Mahni Tidjani , Lammouchi Zakaria	AdaLine Model Predictive Control for Shunt Active Filter Department of Electrical Engineering, Faculty of Technology, University of El-Oued, Algeria
ID-PC-3159	Chetioui Marouane , Babesse Saad	Evaluating PID Controllers for Precise Path Tracking of Autonomous Vehicles in CARLA Simulator: A Multi-Trajectory Approach Department of Electrical Engineering, University of Setif1, Setif, Algeria, Department of Electrical Engineering, University of Setif1, Setif1, Algeria
ID-PC-3160	Bousbia Rabia Laiche, Tamma El-hachmi	Modeling renewable energy market for achieving the sustainable development University of el-eoud
ID-PC-3161	Assia Meziane , Khaled Mansouri, Abdelmalek Atia, Abdelbaki Mameri	New developments in energy Efficiency with artificial intelligence in the poultry houses University of el-eoud

Presidents of 180 s competition :

-Kadour Ali



- Meneceur Redha

- Boukhari Ali

Presidents of Innovation challenge Competition :

- Marouane Abderrazak

-Belekhal Nawel

-Fahem Sakher