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Ministry of Higher Education and Scientific Research
University of Mohamed El Bachir El Ibrahimi - Bordj Bou Arreridj - Algeria Faculty of
Sciences and Technology
Department of Matter Sciences
Laboratory of Materials Physics, Radiation and Nanostructures



CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

SIASSI Abderrahim

has participated in the national seminar entitled :

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Paper Title: Structural and Optical Properties of Mn₃O₄ thin films by Sol-gel spin coating Method

Presentation Type: Poster

Co-Authors: Rabie Amari, Abdelhalim Kahoul, Bahri Deghfel, Noudjoud Lebga, Salim Daoudi



Chairman of NSPCA'25
Dr. Samra AMAMRA

NSPCA' 25 CHAIRMAN
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Structural and Optical Properties of Mn₃O₄ thin films by Sol-gel spin coating Method

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Abstract

In this study, manganese oxide thin films were fabricated using the sol-gel spin coating method. Various protocols are available in the literature for the preparation of such films [1]. Our method involved using manganese acetate tetrahydrate ((CH₃COO)₂Mn·4H₂O) and monoethanolamine (MEA) (NH₂CH₂CH₂OH) as precursors, with ethanol acting as the solvent. Initially, a specific quantity of Mn acetate tetrahydrate was dissolved in ethanol, followed by the addition of MEA in a 1:1 molar ratio with respect to Mn. The resulting solution was then stirred for 1.5 hours at 60°C. Subsequently, the solution was deposited onto a glass substrate using spin coating at a speed of 2000 rpm for 30 seconds, followed by calcination at 450°C. The investigation of the optical properties revealed that the sample that we prepared possess an indirect band gap of 2.2 eV. Furthermore, XRD analysis indicated the presence of the Hausmannite Mn₃O₄ tetragonal structure in our sample [2].

Keywords: Manganese oxide; DRX; sol gel; spin coating

References

- [1] A. Bahadori, H. R. Dizaji, N. Memarian, and M. Aliannezhadi, 'Effect of preparation conditions on physical properties of manganese oxide thin films', J. Sol-Gel Sci. Technol., vol. 95, no. 1, pp. 180–189, Jul. 2020, doi: 10.1007/s10971-020-05296-x.
- [2] H. Lv et al., 'Effect of Grain Size on Pressure-Induced Structural Transition in Mn₃O₄', J. Phys. Chem. C, vol. 116, no. 3, pp. 2165–2171, Jan. 2012, doi: 10.1021/jp2067028.



National seminar of Physics, Chemistry and their applications
"NSPCA'25". February 17th-18th, 2025.



Big Conference Room Abdelhamid Benhadouga-University Mohamed El Bachir El Ibrahimi of Bordj Bou Arréridj

Schedule of Monday, February 17th, 2025.

07H30–08H45	Registrations		
08H45–10H00	Opening ceremony		
10H00–10H45	Plenary Conference 01Pr. Merbah Elkolli Meriem Pharmaceutical chemistry and its applicationsFerhat Abbas University-Setif 1 Title : Glycation et réaction de MAILLARD : Une chimie au croisement du vieillissement et des maladies chroniques President : Pr. Chelali Nesr Eddine Member : Pr . Bengeurba yacine		
10H45 –11H30	Session Poster 1		Coffee break
11H30 –12H50	Session Oral 1		
11H30 –11H50	Room 1	Room 2	Big Conference Room
	Oral 1-1(ENC032): BOUCHELKIA Nasma From pollution to solution: Treating industrial textile wastewater by sorption	Oral 1-5 (PCA005): MOGHNI Nassiba Green synthesis of silver nanoparticles through the valorization of Algerians extracts: structural and antibacterial assessment	Oral 1-9 (TRP008): MOHADI Aicha The Effect of Rotating Black Holes on Quantum Entangled Particles

11H50–12H10	Oral 1-2 (ENC010): AOUDJIT Farid Procédé d'adsorption d'un colorant par les matériaux hydrotalcites	Oral 1-6 (ECA008): LAKROUF Islem. Effect of electrolyte pH on the electrodeposition of Bi ₂ O ₃ thin films on porous silicon surfaces	Oral 1-10 (MP007): ZAHAF MOHAMED Zakaria Transformations on microstructure during tempering of D3 tool steel
12H10 –12H30	Oral 1-3(ENC070): KEBAILI Maya Super Hydrophobic Polymer Composite with Mechanical Resistance for Pothole Repair	Oral 1-7(PCA012): MAGHCHICHE Abdelhak Silver Nanoparticles from Date Seeds: Unlocking Potent Antioxidant and Antibacterial	Oral 1-11 (TRP014): GHEGAL Linda Theoretical Predictions and Frameworks for Noncommutative Space-Time
12H30 –12H50	Oral 1-4 (ECA001): KAABI Ilhem Azo: A Sustainable Dual-Function Corrosion Inhibitor for Carbon Steel in Acidic Environments.	Oral 1-8 (ENC031) : BENDEBANE Farida Optimizing malachite green removal with Box-Behnken design	Oral 1-12(MP014): KARA ZAITRI Lamia Computational study of the electronic and photophysical parameters of new thermally activated delayed fluorescence emitters

12H50 –14H15	Lunch
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14H15 –15H00	Plenary Conference 02 Materials physics Title : Powder and Thin Film Oxides: Advanced Chemical and Physical Elaboration Methods, Characterization, and Applications for Waste water Treatment President : Pr. Kasri Yazid Member : Dr. Sahnoune Yacine	Pr. Bahri Deghfel Mohamed Boudiaf University- M'sila
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15H00 –16H40	Session Oral 2		
15H00 –15H20	<u>Big Conference Room</u>	<u>Room 1</u>	<u>Room 2</u>
	Oral 2-1(PCA014):MANSAR Lina Nourhane Anabasis sp. LC-MS profile and evaluation of their effects on experimental acute pancreatitis	Oral 2-6 (TRP040): LAOUEB Nadjet البنى النووية للأنظمة الفردية القريبة من مسارات الآليات الفيزيوكيميائية: دراسة مطيافية	Oral 2-11 (EP007): KADI Hacene Reduce energy consumption and enhance thermal comfort in indoor environment (buildings)

15H20 –15H40	Oral 2-2 (ENC017) : KHENICHE Abdelhakim Green Synthesis of ZnO Nanoparticles Using Capparis spinosa L. Extract: Structural, Morphological, and Photocatalytic Characterization	Oral 2-7 (EP023): LAICHI Ammar Thermal performance improvement of thermal systems using metal, metal oxide and graphene nanoparticles	Oral 2-12 (MP024): AISSAT Djamel Non collinear inter layer exchange coupling and electronic transport in an antiferromagnet based-junction.
15H40 –16H00	Oral 2-3 (PCA009): OUKSEL Louiza Design, green synthesis, molecular docking, anti-inflammatory and antioxidant effect of a new drug.	Oral 2-8 (MP054): KHIRECHE Abderraouf Effect of internal pressure on irrigation pipes	Oral 2-13 (TRP016): BOUKCHIDA Amina Empirical determination of L X-ray fluorescence cross-sections for uranium by photon effect at different excitation energies
16H00–16H20	Oral 2-4 (ECA015): DAKHOUCHE Ikram Study the effectiveness of organic inhibitor against corrosion in HCl acid of XC48 steel's surface with electrochemical impedance spectroscopy characterization	Oral 2-9 (TRP020): HAMIED Imane Semi-empirical calculation of jump ratios r_{L3} for select high Z elements	Oral 2-14 (MP083): DRIAI Leila Comportement électrique et Physico-chimique des films Polymères soumis aux Irradiations gamma
16H20 –16H40	Oral 2-5 (ENC006) : HAMLIA Meriem. Synthesis and characterization of an environmentally friendly water-based industrial ink	Oral 2-10 (MP123): KOUARTA Hemza First-principles investigation of the magnetic properties of Fe based Heusler Alloys	Oral 2-15 (MP116): KHERRAT Fadila Performance Analysis of Cs3Sb2I9-Based Eco-Friendly Perovskite Solar Cells through I-V Characteristics and Spectral Response

16H40–17H15	Session Poster 2	Coffee break
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17H15– 17H30	Closing ceremony
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Schedule of Tuesday, February 18th, 2025.

08H00–08H45	Registrations		
08H45–09H00	Opening ceremony		
09H00–09H45	Plenary Conference 03 Theoretical and radiation physics Title : Electronic transport : From Boltzmann to non-equilibrium Green's function President : Pr. Kahoul Abdelhalim Member : Pr. Kasri Yazid		Pr. Baadji Nadjib Mohamed Boudiaf University-M'sila
09H45–10H30	Plenary Conference 04 Electrochemistry and its applications Title : L'électrochimie au service de l'environnement President : Pr. Benaicha Mohamed Member : Pr. Babouri Laidi		Pr. Zerroual Larbi Ferhat Abbas University-Setif 1
10H30–11H15	Session Poster 3		Coffee break
11H15 –12H45	Session Oral 3		
11H15 –11H30	<u>Big Conference Room</u>	<u>Room 1</u>	<u>Room 2</u>
	Oral 3-1: (ECA004): GHARNOUT Zahia Élaboration et caractérisation d'une membrane cationique PVA-Na pour générateur MnO ₂ /Zn à double électrolyte.	Oral 3-7 (EP025): SAIDANI Lyamine Analyse des performances thermique et massique d'un système thermique	Oral 3-12 (TRP043): BENTABET Abdelouahab Electron backscattering from elemental solids in the 1–10 keV energy range

11H30 –11H45	Oral 3-2(ENC063): KADA BENABDALLA Noria Contribution à l'étude de la bioaccumulation des métaux traces (Cu, Fe, Mn et Zn) par l'algue verte ulva rigida dans la baie de Beni saf, côte ouest Algérien	Oral 3-8 (TRP004): MEDDAH Samia Comparative study and analysis of the Coster-Kronig transition for some elements.	Oral 3-13 (MP019): ZEFFANE Soumia Hf 2 CrB Heusler material via DFT calculations: A study on structural, electronic and magnetic properties
11H45–12H00	Oral 3-3 (ENC050): BOUIZZAR Samira. Optimization of an efficient Fenton like system for dicamba degradation in water: Identification of intermediates and microalgal bioassay	Oral 3-9 (MP028): ZEGHOUAN Ouahida Orange to Green light emission by Novel co-crystal complex based on Cd (II)	Oral 3-14 (MP066): BOUBAAYA Rabah Effect of PWHT on Austenitic Stainless Steel Weldments: A Study of Microstructure and Tensile Behavior
12H00 –12H15	Oral 3-4 (ENC019): BOUBATRA Mustapha. Removal of Pb from lead-acid battery wastewater using electrocoagulation method: "Experimental study and optimisation analysis"	Oral 3-10 (MP118): AOUAICHIA Mustapha Advanced Simulation Techniques for Carbon Nanotube-Infused Polymer Materials Using RCD Network Models	Oral 3-15 (EP002): BELFERDI Souad Numerical Study of lead-free halide perovskites solar cells using Efficient materials as electron transport materials
12H15 –12H30	Oral 3-5 (ECA022) : BEHLOUL HAMZA Etude de l'inhibition de corrosion de l'acier CX 38 dans HCl 1 M avec un inhibiteur synthétisé à base thiourée	Oral 3-11 (EP011): HEDMESSAOUD Fatma Optimizing Geometrical Parameters of a Solar Vortex Power Station Prototype	Oral 3-16 (MP048): NOUAR Ilhem Chemical Synthesis of MgAl ₂ O ₄ Spinel Using Tamazert Kaolin and Djebel Teioualt Dolomite
12H30 –12H45	Oral 3-6 (PCA007) : AMAMRA SAMRA Study in silico the inhibition of xanthine oxidase and NADPH oxidase by canthaxanthine		

12H45–14H00	Lunch
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14H00–14H45	Session Poster 4
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14H45– 15H00	Closing ceremony
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Posters



Sessions

Poster Session 1		10H45 –11H30	Monday, February 17 th , 2025
N°	Paper ID	Author (s)	Title
<i>Pharmaceutical chemistry and its applications</i>			
P01	PCA001	ALLAL Farida	Solid-State Properties and Solubility study of Eutectic Mixture of Celecoxib
P02	PCA047	GHORAB Hamida	Flavonoids and antioxidant activity from Traganum nudatum
P03	PCA018	HAMANI Siham	Effet des huiles essentielles sur la bruche de la fève Bruchus rufimanus
P04	PCA020	ADDOUN Azeddine	Design, Synthesis, DFT Study, and Molecular Docking of a Novel Chromene Derivative as a Potential Antitumor Agent
P05	PCA023	BAHADI Rania	Synthesis and Antimicrobial Activity of new diketone derivatives assisted by microwave
P06	PCA031	BENBRAHIM Imane	Quantitative Structure-Activity Relationship (QSAR) Study of Oxazoline and Oxazole Derivatives for Anti-Tuberculosis Drug Design
P07	PCA035	GUENIFI Imane	Nanoparticle Synthesis: An Environmentally Friendly Approach
P08	PCA036	BOUSSAKER Meriem	Synthèse et étude théorique (DFT, ADMET et POM) de nouveaux sulfonylimines
P09	PCA037	AOUES Iman	Synthesis and Structural Study of Titanium (IV) Complexe Derived from 3,5-Dihydroxy Benzoic Acid. Impact on Dental Health.
P10	PCA040	YAHIA Wassila	Dosage and identification of metformin hydrochloride in an antidiabetic drug «DIABAMINE 1000 mg/Cp» by UV-Visible spectrophotometer
P11	PCA048	REDJEMIA Rayenne	Synthesis and biological study of anticancer activity of new sulfamidophosphonate
<i>Electrochemistry and its applications</i>			
P12	ECA006	BRINIS Naima	Etude électrochimique de la cinétique du couple ferrocène/ferrocénium dans une solution organique simulant le milieu pétrolier
P13	ECA009	ABDELKADER Hanna	Electrochemical Study of AZ31 Magnesium based Alloy in 3.5 wt.% NaCl Solution for Corrosion Resistance Applications
P14	ECA013	BAKHTAOUI Naima	Utilisation des microréservoirs d'inhibiteurs a base d'Hydrotalcites doubles lamellaires pour le traitement de la corrosion d'acier
P15	ECA016	REBIE Chahrazed	Electrochemical exploration of the corrosion inhibition of carbon steel with new isoxazole derivative in HCL environment

P16	ECA021	BOURICHE Ragheb Khalil	Effect of Temperature on the Electrodeposition Mechanism and Kinetics of Copper Nucleation in a Glycerine-Choline Chloride Electrolyte
P17	ECA025	LAIDOU DI Samiha	Investigation of performance of electrodeposited and annealed copper oxide Cu ₂ O thin films
P18	ECA028	KOUACHE Amel	Electrochemical and Surface Morphological Studies of a New Green Inhibitor on Carbon Steel Corrosion in 1 M HCl
Environmental chemistry			
P19	ENC005	CHENNA Malika	Traitement Des Eaux De Rejet D'une Raffinerie Et Valorisation De Déchets Oléicoles
P20	ENC008	HAYOUNE Asma	Elaboration of Zeolitic Material for Organic Dye Removal from Aqueous Solutions
P21	ENC013	GUERMOUD Nor Eddine	Étude comparative de deux modèles (DRASTIC et SINTACS) pour l'évaluation des risques de contamination des eaux de Oued Chélif (Nord-Ouest Algérie) par les nitrates d'origine agricole
P22	ENC014	SMAIL Sihem	Photo-electrochemical characterization of new lead-free ferroelectric Ba 0.975 Ho 0.017 (Zr 0.2 Ti 0.75)Sn 0.05 O 3 ceramic. Application to Bezacryl Oxidation Under Solar
P23	ENC025	TERKHI Mohammed	Assessment of activated carbon from Leucaena leaves as an environment-friendly adsorbent for the depollution of water contaminated by "Cadmium".
P24	ENC028	MOUANNI Sihem	Degradation of crystal violet in the presence of heteropolysalt of Keggin type. Effect of radiation type
P25	ENC033	GUENDOUIZ Samira	Elimination de Rouge RNB présent dans une solution aqueuse par le procédé d'oxydation avancé « FENTON »
P26	ENC039	BOUAROURI Katiba	Adsorption of humic acid from aqueous solutions on Mg-Fe-layered double hydroxides
P27	ENC043	KAHLOUCHE Ramdane	Impact de l'environnement chimique sur la surface externe de deux types de béton
P28	ENC046	TABTI Hadja Alia	Optimized Removal of Congo Red Dye Using Mg-Fe Layered Double Hydroxide
P29	ENC048	SEDRATI Hanane	The influence of the impregnation ratio of phosphoric acid (H ₃ PO ₄) on the properties of activated carbons
P30	ENC049	MAHMOUD Yasmine	Impact of microcrystalline cellulose extracted from walnut shells on the biodegradability of Poly (lactic acid)
P31	ENC051	BOUMESSAIDIA Selmane	Waste water treatment with activated carbon prepared from green residues
P32	ENC055	KHENCHELAOUI Sabrina	Adsorption of Ag ⁺ ions from aqueous solution by raw and activated date stones
P33	ENC056	BRAHMI Nour Elhouda	Removal of a synthetic dye using activated carbon
Theoretical and radiation physics			

P34	TRP001	BOUCHELAGHEM Fouzia	Application de la Régression Logistique pour la Prédiction de la Récidive des Maladies Thyroïdiennes : Approche en Machine Learning
P35	TRP002	GUEHAZ Abdellatif	Thermodynamic Properties of Black Holes in Noncommutative Geometry
P36	TRP003	SAHI Hayet	The influence of adding the area term in the quarks and gluons density of states to calculate the partition function of a color singlet QGP
P37	TRP005	ROUAG Ahlam	Numerical simulation of noncommutative geometry
P38	TRP006	GAGUI Souheyla	Study of structural and optoelectronic properties of N-doped GaAs by density functional theory
P39	TRP009	TAHAR TAIBA Asma	Homogeneous Dipolar Bose Gases with GUP corrections
P40	TRP024	AOUFI Belkacem	Optimisation des Tolérances Géométriques des Formes Complexes par Rétro Conception Basée sur l'Émission Laser
P41	TRP029	NACEUR Rebiha	The Weibel instability
P42	TRP007	ABDELOUAHAB Mohamed	The quantum entanglement near charged de sitter black hole
P43	TRP035	FADHEL Sara	Simulation of Radiation Behavior in Materials Using Advanced Computational Techniques
P44	TRP030	GHEZAL Achwaq	Search for Higgs +z production within the framework of the non-commutative standard model using proton-proton collisions
Energy physics			
P45	EP006	BOULADAME Mohammed	Investigation via simulation of the impact of Anti-reflection layers on the photovoltaic performance of single junction perovskite solar cells based on FAPbI3 using Silvaco-Tcad
P46	EP008	BOUKOUNACHA Ahmed Yassine	Thermal and dielectric response of nanoparticle-enhanced insulating oils for application in power transformers
P47	EP009	MAHIA Omar	Investigation of Oxide and Sulfide Perovskites' Structural, Electronic, and Thermoelectric Properties using First Principles for Thermoelectric Energy Conversion.
P48	EP015	NACEUR Khadidja	Modeling the effect of thickness of absorber layer in Cu ₂ O heterojunction solar cell
P49	EP016	HADJADJ Abdessamia	Numerical analysis of CuO-Al ₂ O ₃ /water hybrid nanofluid in a Shell and tube heat exchanger
Materials physics			
P50	MP001	BOUHAF KHERKHACHI Imane	Sn _x S _y thin films deposition by spray pyrolysis at different temperature

P51	MP003	GUENDOOUZ Atika	Insights into Electronic and Magnetic Properties of Be _{1-x} (Eu,Tb) _x O: A First-Principles Theoretical Approach
P52	MP006	BOUDIAR Meriem	Ni-doped TiO ₂ thin films prepared using the spin-coating technique
P53	MP010	DEBILI Souha	Study of the microstructural evolution of the pvdf film under the effect of temperature.
P54	MP119	HARIECH Sana	Effect of thermal annealing on physical properties of CH ₃ NH ₃ PbI ₃ -xCl _x hybrid perovskite thin films
P55	MP016	LABBI Asma	Impact of Annealing Duration on the Sustainable Synthesis of Iron Oxide Nanoparticles and Their Structural and Optical Characteristics
P56	MP121	NAMOUNE Djalila	L'effet du dopage sur les propriétés des films d'étain élaborés par la méthode sol-gel
P57	MP023	BOUGAA Samira	Investigation of structural, electronic and thermoelectric properties of ZnMAs ₂ (M = Ge and Si) chalcopyrites using the accurate mBJ approach
P58	MP058	BELOUADAH Abdelhakim	Correlation between structural change and dielectrics properties of neutron irradiation polyethylene naphthalene
P59	MP025	BENOUATAS Assia	Synthesis, Spectroscopy and Characterization of organic products of biological interest 5-Chlorobenzoxazole
P60	MP036	MOHAMEDI Madjeda	Substrate type effect on the performance of RF sputtered AZO/Ag/AZO multilayer structures
P61	MP037	BENZITOUNI Sara	Sol–gel synthesis of (In, Mg) co-doped ZnO thin films for optoelectronic applications
P62	MP038	MEKAHAL Abdelhamid	Effect of Rotational Speed on Temperature and Weld Quality in Rotary Friction Welding of Dissimilar Stainless Steels
P63	MP041	AMIOUR Imene	Preparation of forsterite ceramics
P64	MP042	KIHAL Imen	Hydrogen production on the new hetero-system ZnCr ₂ O ₄ /TiO ₂ under visible light irradiation
P65	MP049	GUEHLOUZ Imed	Influence of Polycarboxylate and Polymer-Based Superplasticizers on the Workability and Compressive Strength of Concrete.
P66	MP053	YAHIAOUI Cylia	Effect of direction on the mechanical behaviour of natural cork to compression
P67	MP056	HEDJAR Hakima	Optoelectronic and magnetic properties of Sm, Co co -doped ZnS, Ab-initio investigation
P68	MP107	ZAIOU Soumia	Effect of TiO ₂ addition on the densification behavior and mechanical properties of dental porcelains
P69	MP061	BOUSSIDA Yousra	Synthesis and Characterization of Monocrystalline Na-Doped NiO Thin Films

P70	MP064	KHAROUBI Ouissem	CoCrFeNiMn High Entropy Alloy fabricated by mechanical alloying and conventional sintering
P71	MP067	LATIF Aya	Structural, Optical, and antibacterial properties of Ga-doped ZnO prepared with sol-gel method
P72	MP122	MEFTAH Souad	Exploring Ni ₃ GaAs Crystalline Structure through X-ray Diffraction and Computational Tools
P73	MP112	MAKRANI Nouredine	Dielectric behavior of PLLA films during dynamic crystallization and effect of vacuum annealing
P74	MP120	FARES Nadji	Thin films of zinc oxide ZnO: Deposition by sol gel method and characterizations
P75	MP062	BENSADALLAH Hayet	Etude théorique des propriétés structurales, électroniques et élastiques du Fe ₃ Pd
P76	MP113	BELGOUMRI Ghania	physical Properties of ternary BeSxSe1-x alloys from first principal calculations
P77	MP117	BEKHIEKH Imane	Synthesis of wollastonite at low temperature using a solid state reaction

Poster Session 2

16H40–17H15

Monday, February 17th, 2025

N°	Paper ID	Author (s)	Title
<i>Pharmaceutical chemistry and its applications</i>			
P01	PCA006	ELKOLLI Hayet	Optimization of the Diclofenac Sodium Lyophilization Process in Aqueous Medium and Mixture (Water/Ethanol)
P02	PCA008	DAMICHE Rebiha	Synthesis of new bioactive aminophosphonates and study of their antioxidant, anti-inflammatory and antibacterial activity
P03	PCA010	BENABILA Nabila	DFT calculation of (E)-1-(4-Fluorophenyl)-2-(2-oxidonaphthalen-1- yl) diazenium
P04	PCA011	TURQUI Tarik	The antioxidant activity of one of the medicinal plants in the M'sila region
P05	PCA013	TLIDJANE Hamida	Synthesis of α -aminophosphonic acid and its applications
P06	PCA017	MESBAH Mounira	Synthèse, caractérisation et évaluation de l'activité antioxydante et anti-inflammatoire d'une base de Schiff
P07	PCA019	ZEROUNI Boutheyna	Molecular Docking Analysis of Schiff Base with NADPH and Xanthine Oxidase
P08	PCA026	TABBI Aouatef	The Synthesis and in vitro Biological evaluation of some 2-(2-BenzylideneHydrazinyl)-6-Ethoxy-3-Nitropyridine Derivatives
P09	PCA029	BOUANANE Zohra	Design and Development of Biodegradable Films based on hydrogels for Active Food Packaging Applications

P10	PCA049	BEDREDDINE Meriem	Phytochemical Characterization and Evaluation of Antioxidant and Antimicrobial Activities of Citrus sinensis Essential Oils
P11	PCA053	TABTI Lilia	Spectroscopic studies of lanthanides complexes
P12	PCA041	ABDOUNE Yamina	Extraction par hydrodistillation de l'huile essentielle de romarin
<i>Electrochemistry and its applications</i>			
P13	ECA007	ROUABAH Mounir	Study of the development of nanomaterials and thin layers via Sol-gel and Electrodeposition methods
P14	ECA012	KHELLADI Mohamed Ridha	Improving electrocatalytic hydrogen evolution properties by varying Ni concentration in Co-Ni-P alloy electrodeposited on Cu substrat
P15	ECA020	TENNAH Farid	Protection de l'acier par électrodéposition d'alliage à base de zinc
P16	ECA023	BELAKHDAR Amina	Insight into anti-corrosion behavior of plant extract as eco-friendly corrosion inhibitor
P17	ECA005	MADANI Abdelghani	Synthesis, Characterization and Corrosion Inhibition of Novel Schiff Bases on Mild Steel in Acid Medium: Density Functional Theory Investigation
<i>Environmental chemistry</i>			
P18	ENC022	BOUCHIBA Maria	Effect of plastic sand mixture proportion on strength and durability of plastic-sand composites for construction applications
P19	ENC024	KABECHE Oualida Nour El Houda	Elimination of an ionic liquid present in wastewater by adsorption
P20	ENC027	HAMLA Wafa	Analyse et Caractérisation du Béton par Diffraction des Rayons X (DRX)
P21	ENC029	SAHI Samira	A Valorization of agricultural waste for the preparation of an environmentally sustainable material
P22	ENC035	RIKOUH Rahma Amina	The Inhibitory Effect of Schiff Base on the Corrosion of XC 48 Steel in 1M HCl Medium
P23	ENC036	RECHIDI Souad	Etude de l'effet de dopage des nanorods de ZnO sur leur activité photocatalytique
P24	ENC038	DEHIMI Leila	Development and Optimization of Adsorbent Materials for Water Treatment Applications
P25	ENC040	CHEDRI Loubna	Etude par spectroscopie infrarouge d'une charge minérale (Kaolin), Effets de la calcination et du traitement chimique.
P26	ENC041	BENACEUR Hadda	Study of thermal and rheological properties of recycled HDPE/vegetable fiber composites
P27	ENC042	HACHAICHI Amina	Development of Biocomposite Based on HDPE Reinforced with Date Palm Fibers for Eco-Friendly Façade Cladding Material

P28	ENC044	TABABOUCHE Mohamed Yacine	Exploitation des propriétés physico-chimiques des polymères fonctionnels dans la conception de films sensibles aux stimuli environnementaux
P29	ENC045	KARCE Houssam Eddine	Adsorption du Bleu de Méthylène à l'aide d'un biochar agricole : Étude cinétique et isothermes
P30	ENC047	BENNESSER Selma	Development of Rigid Biopolyurethane Foam Reinforced with Lignin and Graphite for Enhanced Mechanical and Thermal Properties
P31	ENC052	BOUARISSA Asma	Study of the ability of polyaniline to absorb metal ions
<i>Theoretical and radiation physics</i>			
P32	TRP010	TOUATI Abdellah	Electron scattering by Coulomb potential in non-commutative spacetime
P33	TRP011	ARAB Nabil	Influence de la force de polarisation de Cairns-Gurevich et la non thermalité des ions Sur l'énergie du soliton acoustique poussiéreux
P34	TRP012	BENCHIHEUB Nadjet	Exact Eigenvalues for quasi-harmonic potential type using SWKB quantization condition
P35	TRP013	KOUSSA Walid	Pseudo hermitian invariant for non hermitian time dependent Hamiltonians: Swanson model
P36	TRP015	ZICHE Karima	Monte Carlo simulation of the CAREM-25 reactor core: A study of neutron behavior
P37	TRP018	BERKANI Boualem	Theoretical calculations of K-shell to L-shell $\eta_{KL}(T)$ total vacancy transfer probabilities
P38	TRP019	BENNOUR Zahira	Assessment of natural radioactivity levels and radiation hazards in soil samples from Bordj Bou Arreridj, Algeria
P39	TRP021	ZIDI Amina	Semi-empirical calculation of $(L\alpha/L\beta)$ X-ray intensity ratios for elements in the region $57 \leq Z \leq 71$
P40	TRP022	AMARI Kahina	Three-dimensional empirical computation of $K\beta$ -shell fluorescence cross sections for elements in the atomic range $16 \leq Z \leq 92$ by photon impact spanning from 5.46 to 123.6 keV
P41	TRP023	LAMRI Sarra	Stabilité quantique des systèmes periodique PT-symétrique
<i>Energy physics</i>			
P42	EP010	SEMANE Ammar	Effect of climatic conditions on the performance of a solar chimney
P43	EP012	BENNIA Rachid	Energy Optimization in Photovoltaic Generation Systems Subjected to Partial Shading Conditions: a Bioinspired Approach
P44	EP004	BENABBAS Sabrina	The role of the $Cd_{1-x}Zn_xS$ Buffer layer in CZTSe thin film solar cell
P45	EP021	DJEDOUI Layachi	Analysis of the Effect of Tunnel Junction Materials III-V on the Performance of GaInP/GaAs Double-Junction Solar Cells

Materials physics

P46	MP004	SIASSI Abderrahim	Structural and Optical Properties of Mn ₃ O ₄ thin films by Sol-gel spin coating Method
P47	MP032	MESSAOUDI Fathi	Effect of the number of coatings on the Properties of Mn Doped Zinc Oxide Thin Films
P48	MP040	KOUACHI Mohamed	Effects of Tool tilt angle in butt-joint friction stir welding (FSW) through a thermo-mechanical simulation of 7075 aluminum alloys
P49	MP043	BENFREDJ Amal	Mechanical and Non-Destructive Characterization of Rotary Friction Welded Joints Between 316L Stainless Steel and A60 Steel
P50	MP065	KHALED Ayman	Impact of GTAW Parameters on the Mechanical Behavior and Microstructure of AISI 304/AISI 316 Dissimilar Welds
P51	MP073	BENMAKHLOUF Abdelfateh	Theoretical study of structural and thermodynamic properties of cubic CsCl-type MgCa
P52	MP078	ELBAHI Zouina	Exploring Quantum Dot Size Effects on Electronic and Optical Properties
P53	MP091	BENANIBA Samir	The effect of fiber addition on the thermo-physical properties of composite materials
P54	MP100	BOURAS Loubna	Development of Fiber Metal Laminate Composite Using Recycled Aluminium Waste
P55	MP108	SEDRATI Fatima Zohra	Mesure Des Parametres Dielectriques De Polymeres Solides Sous Atmosphere Controlee
P56	MP114	REMILI Fatima	Characterization of dielectric composites: epoxy resin (RE), titanates (CaTiO ₃ , BaTiO ₃ or MgTiO ₃) and manganese dioxide (MnO ₂)
P57	MP126	CHEBBAH Bouzid	SiO ₂ -ZrO ₂ hybrid thin films for the restoration and repair of optical and mechanical properties of sandblasted glasses
P58	MP020	BIOUD Nadhira	Some thermodynamic parameters of β -SiC predicted from quasi-harmonic Debye model
P59	MP104	CHAREF Samir	Exploring the Optoelectronic properties of Rb ₂ AgBiI ₆ double perovskite for solar energy applications
P60	MP015	RAGHDI Amina	First-Principles Investigation of Structural, Electronic, and Optical Properties of Cubic CsTiO ₃ Perovskite Oxides
P61	MP011	ABDELKEBIR Djamel	Influence of MgO incorporation on the Mechanical and Optical Properties of Unsaturated Polyester Composites
P62	MP012	MEKKI Houria	Exploring the electronic structure and thermoelectric properties of the double half Heusler ScTaPt ₂ Sn ₂ :DFT
P63	MP070	BARBERIS Marwa	Numerical simulation of the Bending Response of Sandwich Composite Structures
P64	MP047	KOLLI Ahlem	Half-metallic ferromagnetism in the SrN binary compound with rock-salt structure: Ab initio prediction

P65	MP071	AIMEUR Nouredine	Application of Finite Element Method to Study Three-Point Bending Response of sandwich Panels
P66	MP046	DAIRI Oualid	Analysis of the Effects of Vickers Indentation-Induced Defects on the Strength and Probability of Failure of Float Glass during Biaxial Flexure Testing
P67	MP068	KHALDI Abdelghani	Compositional Effects on the Elastic Properties of Ga _x In _{1-x} P Semiconductor: A DFT Approach
P68	MP124	BELKADI Ahmed Abdelraouf	Optimization of Slag-Based Geopolymer Mortars Incorporating Glass Powder: Influence of Activator-to-Precursor Ratio and GP Content
P69	MP125	DRIDI Meriem	Improving the Mechanical Performance of Repair Mortars with Plant Fiber Reinforcement
P70	MP090	LAMARA Smail	Effect of MgO Additives on Phase Formation and Densification Behavior of Cordierite Ceramics Prepared from Kaolinite and Magnesia
P71	MP033	LARABA Hadjer	Structural, Magnetic, and Magneto-Optical Properties of Fe n /Pd (001) Ultrathin Films: Theoretical Study
P72	MP045	SENOUCI Nouredine	Density Functional for two electron systems
P73	MP086	RAHRAH Meriem	A First principle calculations Pressure dependence of mechanical properties of perovskite-type hydride material

Poster Session 3

10H30–11H15

Tuesday, February 18th, 2025.

N°	Paper ID	Author (s)	Title
<i>Pharmaceutical chemistry and its applications</i>			
P01	PCA042	BOULAHRAF Dhouha	Exploring the Encapsulation Mechanism of Poorly Soluble Drugs in β-Cyclodextrin: A Theoretical study
P02	PCA043	BAYMOUT Massinissa	Étude in vitro et in silico de l'activité antioxydante des dérivés coumariniques : approches expérimentales et predictive
P03	PCA044	BAKHTA Saleha	Synthesis of zinc complexes of novel thiosemicarbazones and investigation of their antibacterial and antifungal activities.
P04	PCA045	RABAH Amal	Synthesis and Docking Evaluation of the Anti-Alzheimer Potential of Some Benzodiazepines.
P05	PCA051	BOUNABI Leila	Synthesis and in vitro studies of pH-sensitive hydrogels based on grafted alginate as potential system for controlled release of Amoxicillin.
P06	PCA052	KERBAB Khawla	Chemical and biological characterization of chamomille hydro-alcoholic extract
P07	PCA033	SOUKEHAL Souha Fatma Zohra	Theoretical Investigation of β-Cyclodextrin Inclusion Complexes
P08	PCA022	Kadi Ibtissem	Synthese des molecules hybrides : 3-cyanoyridine-malonate de diethyle et l'évaluation de leurs activite anticancereuse

P09	PCA024	FELKAOUI Nour El Houda	Biological potential of salvia species
P10	PCA028	BOUSSADIA Ahlem	Synthèse et caractérisation structurale d'un composé hybride $[C_7H_8NO_3]^+.Cl-.H_2O$
P11	PCA050	TAFER Radia	Synthèse des hétérocycliques originaux est l'intérêt biologiques préparation des dérivés de 4-arylméthylidène-isoxazol-5(4H)-ones par catalyseur Oxalate de sodium ($Na_2C_2O_4$)
<i>Electrochemistry and its applications</i>			
P12	ECA027	BAKOUR Zoulikha	Electrochemical corrosion of Pb–1 wt% Sn and Pb–2 wt % Sn alloys for lead-acid battery applications
P13	ECA029	CHALAL Djazia	Development of Protective Coating PAni-TiO ₂ -SDS Composite Material for Enhanced Corrosion Protection
P14	ECA030	MELAIM Nadjah	Electrochemical synthesis and surface protection of poly (Indole-co-Pyrrole) copolymer coating on Mild steel.
P15	ECA014	BENCHINOUE Manel	Electrochemical Approach to Evaluation of Corrosion Inhibitor for Mild Steel in Acidic Solution
P16	ECA010	KASDI Nedjma	Investigation électrochimique d'oxyde de sélénium (SeO ₂) dans un milieu complexé par citrate de sodium
P17	ECA019	DERBAL Sabrine	Characterization and Electrosynthesis of n-type Cuprous Oxide (Cu ₂ O) Nanomaterial
P18	ECA026	BOUHELAL Djihene	Electrochemical Nucleation, Growth, and Catalytic Performance of Nanostructured Nickel-Iron Alloys for Hydrogen Evolution Reaction
<i>Environmental chemistry</i>			
P19	ENC059	BENANIBA Houda	Study of thermodynamic properties for binary mixtures of monoterpenes and alcohols
P20	ENC060	ZEGHIOUD Hicham	Reduction of Water Pollution Using an Integrated Biochar-Photocatalyst Approach: Mineralization Under Simulated Practical Conditions
P21	ENC065	BOULTIF Ayache	Effects of green inhibitors on corrosion of XC48 steels in acidic media
P22	ENC066	MESROUK Samir	Enhanced Transport of Nickel (II) and Lead (II) Ions Using Polymer Inclusion Membranes with D2EHPA as Carrier
P23	ENC072	BAGHLOUL Rahima	Aging study of a polyester composite reinforced with marble waste
P24	ENC001	BACHIRI Marwa	Solar-Driven Soil Washing for the Remediation of Industrial Sites Polluted with Organic and Inorganic Contaminants
P25	ENC002	LARKAT Karima	La caractérisation minéralogique et physico-chimique de l'argile naturelle de la zone de soubella (M'sila).
P26	ENC003	MOKHTARI Salim	Synthesis and characterization of a p-n junction based on a spinel structure.

P27	ENC004	LAHMAR Nedjma	La dégradation du colorant Jaune Orange S par l'oxydation avancée in situ utilisant le persulfate
P28	ENC007	HERIZI Achwaq	Gestion des Boues Urbaines : Exploration des Solutions Énergétiques et Agricoles Durables.
P29	ENC009	MEFTAH Lamia	Emergences de technologies durables: caractérisation des pelures d'amandes en charbon actif pour l'optimisation du traitement des eaux usées
P30	ENC011	SELLAM Badredine	Effect of water matrix on photodegradation of metobromuron in Fe(III)-Picolinic acid-activated calcium peroxide system
P31	ENC016	SAKHRAOUI Mahfoud	Etude de l'applicabilité des bio-coagulants dans les processus de traitement des eaux usées urbaines de la ville de Bordj Bou Arreridj.
P32	ENC018	KARACHE Fayçal	Investigating the Impact of Water Absorption on Mercerized Cellulosic Fiber-Polymer Composites
P33	ENC023	ALLAL Meftah	Developing sustainable and long-lasting concrete through the utilization of demolition waste for hydraulic purposes in areas susceptible to chemical corrosion
P34	ENC012	BOUMEZOUGH Yasser	An ecofriendly magnetic adsorbent based on natural material for cationic dye removal
P35	ENC015	TAIB Hana	Elaboration of porous material:" characterization and application as absorbent"

Theoretical and radiation physics

P36	TRP025	TANSSAOUT Cirta	The Excited Electronic State of nitrogen in the Upper Atmosphere of the earth Under solar activity
P37	TRP027	FOUL Sihem	Alpha's particles model for 12C and 16O ions stopping power in Aluminum, Copper, Silver and Gold targets for the energy range 1 to 13 MeV/n
P38	TRP028	KHALFALLAH Farid	Variational Quantum Monte Carlo for the Harmonium System
P39	TRP031	MOKRANI Khawla	Pressure-Dependent Excitation Dynamics in Methane Plasma Discharges: Insights from Time-Averaged Optical Emission Spectroscopy
P40	TRP034	BETKA Abdarrahim	The relationship between the range and the incidence energy of electrons impinging in heavy solid targets
P41	TRP046	ZAITER Abdallah	DFT Study of Copper(I) in Linear [XCuL] and [LCuL'] ⁺ ML2 Type Complexes
P42	TRP047	BARA Fatma Zohra	Non-commutative Geometry as a Framework for Extending the Standard Model
P43	TRP052	LARBI Mohamed Aimen	Geodesic in noncommutative Schwarzschild anti-de sitter space time
P44	TRP053	MALIM Roumaissa	Effect of normalized laser intensity on nonlinear absorption by inverse bremsstrahlung of magneto-inertial fusion (MIF)
P45	TRP057	TOUKALI Samir	Analyzing the Impact of the Ordering Problem on Hamiltonian Construction in Position-Dependent Mass Quantum Systems

P46	TRP026	MEDJENAH Samia	The SUSY Dirac equation with hyperbolic mass and in PT hyperbolic potential
P47	TRP055	BOURBIA Nadjla	Modélisation mathématique de la réponse d'un dosimeter 3D
Energy physics			
P48	EP001	MERABET Sarra	Integration of chalcogenide ETLs into MASnI ₃ perovskite solar cells for enhanced photovoltaic performance
P49	EP005	BEDJAOUI Mohamed Lamine	Incorporation of PCM into the building envelope to enhance energy efficiency and thermal comfort
P50	EP017	KHAZZAR Ali	Solar Radiation Prediction in Khenchela City Using a Hybrid ANN-Light GBM Model
P51	EP019	BENKHAOULA Bachir Nadir	Bio-photovoltaic energy production from a plant-based biofuel cell: Effect of different lighting conditions on the performance.
P52	EP020	BOUDIAR Abid	Simulation Study on Enhancing Hydrogen Storage Efficiency Using Charged Fullerenes
Materials physics			
P53	MP069	MEDDAS Hanane	Effect of tungsten doping on the structural, electrical and optical properties of spin-coating deposited SnO ₂ thin films
P54	MP072	SMILI Soumia	Morphological Analysis of FeCuZnSn powder particles produced by ball milling
P55	MP074	BOUCHAREB Badra	Elaboration and Characterization of PVC Matrix Nanocomposites Reinforced with Nanoclay: A Case Study of Maghnite
P56	MP075	HAFFAS Sabah	Structural, optical and electrical properties of spray deposited Bi-doped Co ₃ O ₄ thin films
P57	MP076	OULED ALI Mohammed	Investigations of physical properties of lithium-based chalcopyrite semiconductors
P58	MP077	CHERAITIA Oumaima	Synthesis and characterization of Manganese doped titanium oxide thin films for photovoltaic applications
P59	MP079	SAKER Fatima	Comparative study between Cadmium sulfide and copper sulfide thin films deposited by chemical bath deposition as application for detection systems
P60	MP081	ABDELLAH ELHADJ Adel	Ab-initio simulation to understand how pressure affects the half-Heusler semiconductor LiCaP compound's physical properties
P61	MP082	BALI Youcef	Influence de l'ajout de sable de dunes sur les propriétés thermiques et mécaniques des briques de terre comprimée (non cuite)
P62	MP084	CHAOULI Aissa	Ab-initio investigation of the structural, electronic, optical and elastic properties of the filled tetrahedral compounds NaMgX (X=N, P, and As)

P63	MP087	BOURAS Dikra	Enhanced Photocatalytic Performance of Zr-Doped ZnO Thin Films on Ceramic Substrates for Water Purification Applications
P64	MP088	SEGHIR ABDALLAH Houcine	Structural, Mechanical, and Electronic Properties of Half-Heusler Semiconductor BaAgP: A DFT investigation
P65	MP089	KHIAL Aicha	Comparative study on the morphological structural and optical properties of (Al, In) doped ZnO thin films for solar cells application
P66	MP092	BENDJEMIL Samiya	Study of structural, electronic, magnetic properties of diluted semiconducteur based CdS.
P67	MP097	BOUREMANI Amirouche	Mathematical Modeling of thermoluminescence in Y4Al2O9:Eu3+
P68	MP098	LAHMAR Seifeddine Mehdi	Incorporating Andesite and Calcined Marl: Advancing Workability and Strength Performance in Heat-Treated High-Performance Concrete
P69	MP099	ZAALANI Ismahan	Mechanical and Magnetic Properties of the Mechanically Alloyed FeCrTiNbMn High- Entropy Alloy
P70	MP102	HACENE CHAOUCHE Rahma	X ray diffraction and thermal properties of bio high entropy alloy prepared by high energy ball milling
P71	MP105	AIT YAHIA Sihame	Effect of thickness stretching For Buckling Analysis Of Functionally Graded Sandwich Plates
P72	MP111	HOUICHA Haroun	Influence de la microstructure sur les propriétés optiques et mécaniques des vitrocéramiques dentaires
P73	MP115	DJEBBARI Chaffia	Formation of nanocrystalline intermetallic compounds in binary Co–Al alloys
P74	MP101	BELLIL Wahiba	Structure bi-couche D/M pour applications au vitrage solaire
P75	MP103	KICHE Rima	A theoretical study of the physic-chemical properties of a series of three imidazolium based ionic liquids
P76	MP106	YOUNES Leyla	Characterization of residual stresses in soda lime silicate glass by photoelasticity
P77	MP109	DOULA Aicha	Ba- doping effect on the structural, optical and morphological properties of TiO ₂ thin films prepared by sol gel method.
P78	MP060	HAMADI Faouzia	Feasibility Study of Biomedical Ti-Nb-Zr Alloy Production by Powder Metallurgy: Analysis of Properties and Biocompatibility

Poster Session 4

14H00–14H45

Tuesday, February 18th, 2025

N°	Paper ID	Author (s)	Title
<i>Pharmaceutical chemistry and its applications</i>			
P01	PCA002	KRACHE Imane	Acute toxicity, in vivo anti inflammatory of Globularia alypum Extracts

P02	PCA003	BOUSSOUALIM Naouel	Test d'inhibition enzymatique des β -lactamases par Sedum sediforme
P03	PCA015	ZIDANE Salima	Exploiter la diversité pour la production de biocarburants propres à base des micro algues
P04	PCA025	RAHMOUNI Samra	Extraction par micro-ondes et étude biologique des extraits des graines d'oignon
P05	PCA030	MOKHTARI Samia	Caractérisation Structurale et Physico-Chimique d'un Complexe [Sr (H ₂ BTEC) (H ₂ O) ₅] : Approches par Surface de Hirshfeld, Analyse Thermique et Spectroscopie Infrarouge
P06	PCA032	NASRI Yasmine	Valorisation des phosphates locaux : Extraction, caractérisation et applications biomédicales de l'hydroxyapatite
P07	PCA034	BERKANE Aya	Antioxidant activity and total phenolic content of ephydra species.
P08	PCA039	BOUANANI Sana	Discovering new Azo Dye CDK2 inhibitor for cancer treatment: Docking molecular, DFT and IN-SILICO ADME.
P09	PCA021	ATTOU Zineb	In vitro biological activities of cyclodextrin inclusion complex with sulfonamide derived from L-valine as antimicrobial
P10	PCA046	MERATATE Faiza	Preliminary study on phytochemical and biological activity of punica granatum
P11	PCA038	GUELIFET Khalil	Comparison of Essential Oil Extraction Methods from *Rosmarinus officinalis L.*: Hydrodistillation, Microwave, and Water Vapor Extraction, and Their Biological Activities
P12	PCA027	ZIANI Nouara	Extraction et évaluation de l'activité antioxydante des principes actifs de la gelée royale

Electrochemistry and its applications

P13	ECA002	BEGAG Nadjet	Gravimetric, electrochemical, and theoretical investigation of a new hydrazone derivative as a corrosion inhibitor for XC70 in a 0.5 M H ₂ SO ₄ solution
P14	ECA003	TOUAHRIA Youcef Islam	Study of the corrosion inhibition properties of new hydrazone compound
P15	ECA011	CHENNI Chouaib	Etude électrochimique de l'électro polymérisation d'un polymère conducteur(PPy)
P16	ECA018	AZZOUG Asma	Electrodeposition and characterization of copper oxide particles on a glass substrate
P17	ECA024	MERABET Sarra	Impact of the Variation in Sodium Chloride Concentration on the Corrosion of Low-Carbon Steel
P18	ECA031	DILMI Oualid	UPD kinetic and Mechanism of red selenium on copper substrate
P19	ECA017	ABID Imene	Optimization of the performances of CuO films in applications related to the hydrogen evolution reaction

Environmental chemistry

P20	ENC057	BOUNAB Farida	Adsorption de Rouge Direct 79 (RD 79) par le charbon issu du cône de cypress
P21	ENC058	ABBAZ Amina	Exploring the efficiency of sodium alginate /pomegranate peels composite beads for adsorptive removal of Safranin O dye
P22	ENC062	AISSAOUI Halima	Application of Aluminum Sulfate in the Coagulation-Flocculation Treatment of Cutting Oil Emulsions.
P23	ENC067	TALBi Abderrahmane	Étude d'élimination du colorant basique en BATCH et en continu par le système de chloration et Chlore/fer
P24	ENC069	BOUTIKAR Khadidja	The effect of casein on biopolymer properties
P25	ENC071	ALOUACHE Amina	Chemosensor for detection of heavy metals in aqueous solutions
P26	ENC061	BELHOUL Hamoudi	Potential of PMMA/ZnO–NPs as Cost-effective, Thermally Stable and Efficient Photocatalysts for Water Treatment.
P27	ENC020	BAAZIZ Bahia	Efficient characterisation of the magnetic activated carbon for environmental concern
P28	ENC021	HOCINE Salima	Study of the adsorption of organic dyes: Methylene Blue and Congo Red on a pH Sensitive Hydrogel.
P29	ENC053	ROKBANE Abdelmadjid	Conception de Zones Humides Artificielles (Phyto- Épuration) dans Certains Sites de la Ville d'Ouled Djellal et Réutilisation pour l'Irrigation
P30	ENC054	ALIELLAL Dounia	Sustainable biochar adsorbent for removal of inorganic pollutants from water: isotherm and kinetic studies
P31	ENC034	BOULEGHLEM Hocine	Utilisation du polymère organique et des biocomposites à base d'aminopolysaccharide dans le traitement des eaux polluées
<i>Theoretical and radiation physics</i>			
P32	TRP036	SMATI Nor El Houda	Nuclear analysis of Calcium fluoride compound for alpha particle energy loss measurements in the MeV/u range
P33	TRP038	MIHOUBI Karima	Study of the effect of truncation, obscurity, and aberration on the quality factor (M2) of the Hermite-Gaussian laser beam
P34	TRP039	SADDOK Wissam	Etude de l'effet de piégeage des électrons dans un plasma non extensif en régime faiblement non linéaire
P35	TRP041	KHATTAB Abdeslem	The Effect of Solar Activity (F10.7) on the Ionization Rate of potassium K by Electron Impact in the MLT Region
P36	TRP042	GHEZAL Asma	Analyse systématique des sections efficaces de la réaction (n,3He) à 14-15 MeV
P37	TRP044	MOUSSAOUI Ouidad	The mean penetration depth of electrons in semi-infinite solid target
P38	TRP045	GHEDIRI Noussaiba	Enhancing Radiotherapy Dose Accuracy through Advanced Calibration Techniques: A CC13 Ionization Chamber Study

P39	TRP050	KHIAT Imene	Triple Differential Cross Sections for ionization of Lithium by electron impact
P40	TRP054	BENGHERABI Khadra	Solutions of the Schrödinger Equation with the Hyperbolical Eckart type Potential
P41	TRP033	MANA Naima	Hermitian and anti-Hermitian Dirac operators
P42	TRP037	LAKEHAL Amine Mohamed	Parametric investigation of a thermally driven QCD Deconfining Phase Transition
P43	TRP032	KOUCHKAR Khaoula	Comparative study by DFT and SAR investigations of N-[(4-methoxyphenyl) (morpholin-4-yl)methyl]acetamide (MMPA) and N-[morpholin-4 yl(phenyl)methyl]acetamide (MPA) as corrosion inhibitors.
Energy physics			
P44	EP003	LAARABA Adel	Effect of fins number on the thermal performance of a parabolic trough collector
P45	EP013	BAHLOULI Abdelhak	Analysis of Heat Transfer Enhancement and Flow Structure Evolution in Natural Convection: A Parametric Study of Rayleigh Numbers in a Closed Cavity
P46	EP014	FATMI Kawther	A Comprehensive Modeling and Performance Analysis of a Two-Stage Single-Phase Grid-Connected Photovoltaic System
P47	EP024	BOUHABILA Rima	Thermal isolation and physiochemical properties of fibre reinforced bricks as wall materials
P48	EP022	LAHRECH Abdelhakim	Magneto-thermosolutal natural convection in a nanofluid filled-non-Darcian heat generating porous annulus under the local thermal non-equilibrium condition and Joule-heating effects
Materials physics			
P49	MP085	CHACHOUA Amina	Synthesis, Characterization and Nonlinear Optical Properties of Novel Organic–Inorganic Hybrid Material
P50	MP008	BELLOULA Khawla	Ab Initio Study of Structural, Elastic, Electronic Properties of Antiperovskite AlCTi ₃ , AlC ₂ Ti ₃ and Al ₂ CNiTi ₃
P51	MP009	GUENDOZ Djemaa	Structural, electronic, Phase Stability and thermodynamic properties of the ternary Nowotny-Juza materials LiMgSb
P52	MP013	SAADI Taieb	The electronic and magnetic structure of transition metal hydrides.
P53	MP017	BELMOKHI Nada	Impact of Chromium and Cobalt substitution on ZnAl ₂ O ₄ nanoparticles: Synthesis and Characterization.
P54	MP018	ALLAOUA Farid	The half-metallic characteristic of a dilute magnetic semiconductor based on Mn-doped rutile germanium oxide
P55	MP021	GUENDOZ Riadh	Structural and mechanical properties of refractory high-entropy carbides HEC(Zr) and HEC(Mo): A first-principles study

P56	MP022	CHAIBRABI Messaouda	Geometric and mechanic study of polar metalOsO3
P57	MP026	GRINE Madani	Study of Delamination and Surface Roughness During Drilling of Alfa Fibre Reinforced Polymer Composites
P58	MP027	OKBA Fouad	Elaboration de substrats minces par plasma hydrogénation
P59	MP029	LOUCIF Maroua	Effect of glycine on methylene blue photocatalytic degradation by ZnO NPs.
P60	MP031	SASSOUI Khadidja	Study of quaternary Heusler semiconductors employing density functional theory (DFT)
P61	MP034	MENEDJHI Adel	Band structure and optical spectra of Lead free halide double perovskite K2AgSbBr6 for Optoelectronic applications
P62	MP035	DJEGHLOUL Fatima Zohra	First Principales Calculations of the Elastic, Electronic, Magnetic, and Optical Properties of CoFeTiSb Heusler Alloys
P63	MP039	BOUCENNA Sarra	High Pressure Effects on the Structural, Elastic, and Electronic Properties of Ca ₄ GeN ₄ : Ab Initio Study
P64	MP044	BENDJILALI Hadjer	Systematic Understandings of semiconducting Chlorine-based double perovskite Rb2PtCl6 through first-principles calculations.
P65	MP080	BELKACEM Karima	A Electronic Properties of Wurtzite Ga _{1-x-y} In _x Al _y N Quaternary Alloys
P66	MP094	ALIOUAT Esma	Comparative Analysis of Solvothermal and Precipitation Methods for Pure and Cobalt-doped Fe3O4 Nanoparticles Synthesis
/FJP 67	MP110	SLIMANI Bouchra	Effects of thermal treatment on the Structural, Optical, and Photocatalytic properties of TiO ₂ thin films
P68	MP050	KHELFI Silia	Leaching of Aluminium Dross and Dolomite for Magnesium Aluminate Synthesis
P69	MP051	KHIREDDINE Ahlem	Analyse des propriétés structurales, électroniques, magnétiques, optiques et non linéaires des complexes de curcumine via la méthode DFT
P70	MP052	BENLECHHEB Soumia	Etude des Propriétés Physiques de l'Alliage InxA11-xAs
P71	MP055	MAOUDJ Hanane	Prediction of AgCl and CoSb3-polymorphs with high thermoelectric efficiency at high pressure
P72	MP057	HABIA Mohamed Ilyes	Ellipsometry spectroscopic and SPR characterization of zinc oxide doped with aluminium acetate

Sponsors

