

Seminar Program - MIIDD26

Matériaux Intelligents et Innovants pour le Développement Durable

Smart and Innovative Materials for Sustainable Development

المواد الذكية والمبتكرة من أجل التنمية المستدامة

Mostaganem, Algeria — 13-14 October 2026



1st Day | 13 Octobre 2026



07:30-09:00



Welcome and Registration of participants



09:00-09:30



Seminar Opening Speech

- The Rector of the University: Pr. Baghdad ATMANI
- The Dean of the Faculty: Pr. Abdelkader CHOUAÏH
- The Director of the LTPS Laboratory: Pr. Bouabdellah BOUADJEMI
- The President of the Seminar: Dr. Naima BOUBEGRA



1st Plenary Conference chaired by
Pr. F. ABDELMALEK & Pr. M.R. GHEZZAR



09:45-10:15



Pr. Salima SAIDI

Multifunctional Hybrid Nanomaterials: Engineering for Environmental and Health Applications



2nd Plenary Conference chaired by
Pr. B. ABSAR & Pr. R. MAAROUF



10:15-10:45



Pr. Cherif Houcine ZIANI

Photochemistry as a tool for the development of biomaterials



10:45-11:15

Coffee Break + Session (A) Poster

Dr N.BELKAFOUF & Dr S.SEFIR & Dr Z.FARES & Dr M.KHELLADI
& Dr. E.BENIDRIS & Dr. B.BENALIOUA & Dr. M.TERMOUL & Dr. N.DOUARA



3rd Plenary Conference chaired by
Pr. A. DRIOUCH & Pr. A. BENTOUAMI



11:15-11:45



Pr. Saliha BENKERDAGH

Modeling, Prediction and Optimization of Petrochemical Processes using Artificial Intelligence



4th Plenary Conference chaired by
Pr. S. BENTATA & Pr. A. ZOUBIR



11:45-12:15



Pr. Nouredine BENDERDOUCHE

Advanced Nanotechnologies for Environmental Remediation



Lunch



2nd Seminar

Smart and Innovative Materials for Sustainable Development

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Seminar Program - MIIDD26 (Page 2)



Oral Session (Room: 1)

14:00-15:15



President: Pr. A.ABBAD & Pr. S.Terkhi



14:00-15:15

COM 1

Khadidja ABBOU-KÉBIR

Testing the natural pozzolana of Souahlia-Ghazaouet as a New Siliceous Additive in Composite Portland Cement: An Experimental and Comparative Approach

COM 2

Nadia FEKKAR

Tailoring Interfacial Water Dynamics and Phase Transitions in SBA-15 via Sequential Surface Functionalization

COM 3

Fadila BENALI

Smart Nanocomposites for Catalytic Reduction and Antibacterial Application

COM 4

Rachida BENDAHMAN

Efficient Hydrogen Generation from Sodium Borohydride Catalyzed by Spinel Nanoferrite



Oral Session (Room: 2)

14:00-15:15



President: Pr. A.BESBES & Pr. S.CHERID



14:00-15:15

COM 1

Abderrahmane YOUNES

Magnetic and Structural Behavior of Nanocrystalline Zn₂Fe₂O₄ and Fe₂TiO₅ produced by powder metallurgy process

COM 2

Soumia Sanaa BELARBI

Impact of oral acidity variations on the degradation of NiTi and stainless-steel orthodontic archers.

COM 3

Mohamed Chakib KHERRABI

Smart Nanocomposites for Catalytic Reduction and Antibacterial Application

COM 4

Fatma YAHY

Experimental Analysis of Flow Transitions in Taylor-Couette Flow Between Coaxial Cones



Oral Session (Room: 3)

14:00-15:15



President: Pr. F.BENDAHMA & Dr. N.MEHTOUGUI



14:00-15:15

COM 1

Fatima OUADJENIA

Valorization of bottom ash from incinerated hospital waste as an adsorbent for wastewater treatment

COM 2

Samir BERKANI

Metamaterials applied in directional coupler design

COM 3

Yasser Boukadoum

Theoretical Mathematical Modeling of Coupled Heat and Mass Transfer Phenomena in High-Temperature Solid Oxide Electrolysis Cells (SOEC) for Green Hydrogen Production

COM 4

Fatima Zohra BENAOUINA

Structural, Electronic and Reactivity Assessment of a New Organic Molecular Compound: DNMA

COM 5

Amina LAHOuali DIT YAHYAoui

Nonlinear Optical Properties of a Heterocyclic Schiff-Base Compound: A DFT Study



Coffee Break + Session (B) Poster

15:15-15:45

Dr. S.BENOSMANE & Dr. I. BELARBI & Dr. M. MATOUGUI & Pr. AZITOUNI
& Dr. N.HADDOU & Dr. A.MEDJDOUB & Dr. N.ELARBI & Dr. F.SALAA



1st Day Closing

15:45-16:15



Session (A) Poster

- POS 1** **Abderrahmane YOUNES**
Magnetic and Structural Behavior of Nanocrystalline Zn₂Fe₂O₄ and Fe₂TiO₅ produced by powder metallurgy process
- POS 2** **Abderahim ABADA**
Magnetic and Structural of Nanocrystalline SnCu and SnNi Alloys synthesized by mechanical alloying
- POS 3** **Soumaya SASSI**
Enzymatic biodiesel production from waste cooking oil using bacterial lipases isolated from soil and olive brine
- POS 4** **Nabil HAMAM**
Montmorillonite Maghnite-Na⁺, an ecologic Catalyst for Synthesis of Poly(ϵ -caprolactone-co-1,3-dioxolane) in the presence of Benzoic anhydride.
- POS 5** **Soumaya SASSI**
Screening of GABA-producing lactic acid bacteria isolated from traditional fermented wheat (hamoum)
- POS 6** **Nabil HAMAM**
Synthesis of poly(ϵ -caprolactone-co-1,3-dioxolane) in the presence of benzoic anhydride, by an ecological catalyst montmorillonite Maghnite-Na⁺
- POS 7** **Malika BERRAHAL**
Accelerated graphene fabrication through coupled oxidation, intercalation, and exfoliation processes
- POS 8** **Delloula LAKHDARI**
Bio-based polyamide 11 nanocomposites modified with PANI and TiO₂ and for effective adsorption of methylene blue dye in wastewater treatment
- POS 9** **Wafa DJELTI**
Exfoliated Bentonite-Supported Biobr/Bioi Z-Scheme Heterojunction For Enhanced Visible-Light Photocatalytic Degradation Of Organic Pollutant
- POS 10** **Abdelali LAID**
Performance of the Zinc Sulfide Insulation Layer's Impact on CIGS Solar Cell Efficiency
- POS 11** **Zahira Faiza MEGHOUEF**
Binary skutterudite for thermoelectric applications
- POS 12** **Aicha BENTOUAMI**
Performance Evaluation of a Photo-Fenton System for the Degradation of Organic Pollutants
- POS 13** **Kaoutar SI AFIF**
Green Synthesis of ZnO Nanoparticles Using Pinus Extracts for Sustainable Material Applications
- POS 14** **Nassima BENYOUN**
Kinetic and Isotherms Study of Pharmaceutical Residues on Modified Mesoporous Materials
- POS 15** **Abdelkarim MESSAOUDI**
Quaternary Heusler Alloys: New Opportunities for Thermoelectric Applications
- POS 16** **yasmine BELHAMITI**
Valorisation de la poussière de coton pour l'élimination du Bleu de Méthylène en solution aqueuse
- POS 17** **nawel GOUSMI**
Chemical synthesis and characterization of iron oxide nanoparticles: application prospects for the treatment of industrial wastewater
- POS 18** **Abdelhak KHATAR**
Structural, Optical, and Thermoelectric Properties of Hf₂Pd₂AlBi and Hf₂Pd₂AlSb Alloys for Next-Generation Device Applications
- POS 19** **Lamia Ahlem BENZELMAT**
Un nouveau photocatalyseur à base de diatomite-TiO₂/ZnS pour la dégradation des polluants organiques et la désinfection de l'eau
- POS 20** **Amar ABBOUB**
Caractérisation d'une rupture ductile/fragile de l'acier au carbone chargé par la méthode cathodique.
- POS 21** **Sabria TERKHI**
First-Principles Investigation of the Thermodynamic and Thermoelectric Properties of new Full-Heusler Alloy for Sustainable Energy Applications
- POS 22** **Salima DAOUI**
Engineering the Spin State of CaFe₂O₄ Nanoparticles for Synergistic Adsorption-Photocatalysis: A DFT-Guided Degradation of AG25 Dye
- POS 23** **Asma DJILALI BOUZINA**
Étude vibratoire des plaques composites renforcées de nanotubes de carbone, basée sur la théorie de la déformation par cisaillement d'ordre supérieur de Reddy
- POS 24** **Khadidja BENAYED**
Electronic, Magnetic and Elastic properties of CubicLaves Phase ZrFe₂: A First Principles Study
- POS 25** **Younès BENARIOUA**
Microstructure of a deposit in 18/8 stainless steel produced by arc-wire spraying on ordinary steel substrate
- POS 26** **Naima BOUBEGRA**
DFT Study of the Correlation between Intramolecular Charge Transfer and Nonlinear Optical Response in a Push-Pull Organic Compound for Optoelectronic Applications

- POS 27** **Ikram BELKAFOU**
Experimental and Theoretical Investigation of a Novel Thiazolobenzimidazole Derivative for Functional Textile Applications.
- POS 28** **Amina MEZOUAGH**
Comparative technical and economic study of two seawater distillation methods
- POS 29** **Kheira EL AKEB**
A Calcined Zn-Cd Layered Double Hydroxide as an Efficient Adsorbent for Sustainable Wastewater Treatment
- POS 30** **Nabil TOUMI**
Elastic Anisotropy and Thermo-Mechanical Performance of FeCoNiMnSi_{0.3} High-Entropy Alloy: Toward Next-Generation Drill Bit Materials
- POS 31** **Tarik Khaled HIJAZ**
Valorization of graphite waste from drilling in the epoxy matrix
- POS 32** **hadja KHOUSSA**
Numerical Modeling of a Hydrodynamic Bearing Lubricated with a Couple-Stress Fluid
- POS 33** **Mimoun BENOUI**
Study and Analysis of the Instability of Carbon Nanotubes
- POS 34** **Amina BELASRI**
The half metallic behavior at high temperature of highly spin-polarized V-based Heusler alloy: DFT calculations
- POS 35** **hadja KHOUSSA**
Numerical Investigation of a Hydrodynamic Journal Bearing Lubricated with a Couple-Stress Fluid
- POS 36** **Zahira Faiza MEGHOUEF**
Binary skutterudite for thermoelectric applications
- POS 37** **Arroussi CHAABEN**
Predicting Fe₂B and TiB₂ Boride Layer Thickness Using an Artificial Neural Network
- POS 38** **Yasmine BELHAMITI**
Valorisation de la poussière de coton pour l'élimination du Bleu de Méthylène en solution aqueuse
- POS 39** **Chaaben ARROUSSI**
Prediction of Ultimate Tensile Strength in Friction Stir Welded Joints Using a Hybrid Deep Learning Model
- POS 40** **Salima DAOUI**
Engineering the Spin State of CaFe₂O₄ Nanoparticles for Synergistic Adsorption-Photocatalysis: A DFT-Guided Degradation of AG25 Dye
- POS 41** **Fatma BELABBES**
Valorization of Algerian Cotton Dust into KOH-Activated Carbon: Proof-of-Concept for Deep Black SNG Adsorption
- POS 42** **Omar BELARBI**
Electronic and Thermoelectric Properties of BaAgBr₃: A Comparative Study Using GGA and mBJ-GGA Methods
- POS 43** **Noureddine SAIDI**
Insight into Electronic, Optoelectronic and Thermoelectric Properties of Full-Heusler X₂TaSi (X = Rb, K): First-Principles Calculations
- POS 44** **benabbou asmae**
Effet de la méthode d'extraction sur le rendement, la composition et les propriétés biologiques des huiles essentielles de Laurus nobilis L.
- POS 45** **Mohamed BENMBAREK**
Computational Micro-Scale Modeling and Multi-Objective Spatial Optimization for Energy Efficiency and Environmental Footprint Mitigation in Arid Ecosystems
- POS 46** **Mohamed BENMBAREK**
Non-Linear Multivariable Modeling and Stator-Flux Oriented Vector Control for Energy Efficiency Optimization in Electromechanical Conversion Systems
- POS 47** **Mohamed BENMBAREK**
Dynamic Sensitivity Analysis and Thermal-Parametric Robustness Evaluation of Electromagnetic Drives for Conversion System Durability
- POS 48** **khadija SOLTANE**
Spectral investigation, TD-DFT study, HOMO-LUMO, chemical reactivity and NLO properties of FBID1.
- POS 49** **Djilali MEKHATRIA**
Development and formulation of personal care products using natural ingredients such as clay and kaolin.
- POS 50** **Aya RIGHI**
computational Investigation of a Quaternary Heusler Alloy for Innovative and Sustainable Material Applications.
- POS 51** **Ahmed Yassine ROUABHI**
Investigation of the Electromagnetic Characteristics of a Novel Tapered Split-Ring Resonator for Microwave Filter Applications.



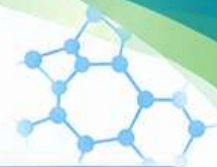
Session (B) Poster

- POS 1** **Oumria KOURAT**
Quantum Chemical Study, In Silico ADMET Profile Analysis, Molecular Docking, of $\text{CH}_2=\text{C}(\text{CH}_3)\text{CONH}_2$ ($\text{C}_4\text{H}_7\text{NO}$)
- POS 2** **Malika KHELLADI**
Recovery and recycling of mercury
- POS 3** **Zohra BAHNES**
Half-Metallic and Thermoelectric Quaternary Heusler Alloy CoFeScP for Sustainable Technologies
- POS 4** **Hadji LAZREG**
Dynamic characteristics analysis of functionally graded beams resting on viscoelastic medium using a refined beam theory
- POS 5** **Amel SLAMANI**
A Multifaceted Investigation of the Physical Properties of Ti-Based Double Half Heusler
- POS 6** **Toumi Imene**
Synthesis and characterization of polyaniline/activated-carbon conductive nanocomposites by oxidative polymerization
- POS 7** **Ahmed ALEM**
Ab Initio Study of the Structural, Magnetic, and Electronic Characteristics of Full-Heusler Co_3MnSb
- POS 8** **Fatima YAHIA CHERIF**
Theoretical study of the structure, electronic properties and reactivity of the N -(2-Pyridylmethyl)phthalimide molecule using density functional theory
- POS 9** **Abderahim ABADA**
Magnetic and Structural of Nanocrystalline SnCu and SnNi Alloys synthesized by mechanical alloying
- POS 10** **Zineb FARES**
Theoretical prediction of the structural, electronic, elastic and magnetic properties of $d\ 0\ -d\ 0$ full Heusler: New Candidate for Spintronics.
- POS 11** **Nabila MEHTOUGUI**
Modeling the structural, electronic, and thermoelectric properties of CsCaGe Half Heusler compound.
- POS 12** **Rachid AMRAOUI**
 ZnO -Induced Phase Evolution and Magnetic Modulation in FeTiO_3 -Based Nanocomposites Synthesized by Mechanical Alloying
- POS 13** **FEKNOUS Hadjer**
Effect of Treatment on the Brittleness of Sand: An Experimental Study
- POS 14** **Maya Hassaine Daouadji**
Amélioration des performances des polymères renforcés par des nanotubes de carbone pour la réparation des poutres en béton armé
- POS 15** **Belgacem Leila**
Analyses multi-échelles des électrodes en tungstène dopé : critères de choix pour le soudage TIG
- POS 16** **Zohra Mostefa**
Thermoelectric Transport Properties of Half-Heusler compounds MNbGa ($\text{M} = \text{Ni, Pt}$).
- POS 17** **TALEB Khadidja**
Bio-Wastes Valorisation for the Removal of Organic Pollutants
- POS 18** **gousmi nawel**
Chemical synthesis and characterization of iron oxide nanoparticles: application prospects for the treatment of industrial wastewater
- POS 19** **Lakhdari Delloula**
Development and evaluation of polyamide 11 and titanium dioxide-based nanocomposites as effective adsorbents for the removal of methylene blue
- POS 20** **mokhtar djamila**
Multi-Criteria Optimization of the Mechanical and Optical Properties of Glass Fiber-Polyester composites via Response Surface Methodology: Application to Agricultural Greenhouses
- POS 21** **Rachida RAHMANI**
POsputational Investigation of Small-Molecule for Organic photovoltaics
- POS 22** **BENYAMINA Imane**
Solar-driven photocatalytic performance of a Novel nanophotocatalyst / purified Clay Heterojunction for the removal of diverse pollutants
- POS 23** **MERABET NARIMENE**
Spatiotemporal Dynamics of Taylor-Couette Flow with Two Immiscible Fluids: Effect of the Light-Fluid Aspect Ratio
- POS 24** **BELHADJI Kinza Amel**
Evaluating biosynthesized MnO nanoparticles for pollution control: Biological, photocatalytic, and adsorption capabilities
- POS 25** **QUALI Asmaa**
Préparation et caractérisation d'un charbon actif modifié par les nanoparticules pour l'élimination d'un polluant émergent.

- POS 26** **Yasmina HAMNOUNE**
Spatiotemporal Taylor-Dean instability in a rotating conical flow system.
- POS 27** **Sahar ABOU SWEIREH**
L'Écosystème des Start-ups nationales comme levier d'innovation pour l'Économie Circulaire et la Gestion Prédictive des Risques HSE : Cas de l'entreprise NAFTAL.
- POS 28** **Merzouk SAIDJ**
computational Designing of D-π-A structure using Multi-Thiophene Rings
- POS 29** **Adel LAKEL**
Study of the Bending Behavior of a Multidirectionally Functionally Graded Porous Sandwich Plate
- POS 30** **Lakhdar BENAHMED**
Unveiling the Structure-Electronic-Transport Interplay in a Novel Perovskite: A First-Principles Perspective
- POS 31** **Ali AISSANI**
First-Principles Investigation of the Structural, Electronic, and Thermoelectric Properties of a Novel Perovskite Compound
- POS 32** **Sid Ahmed BENDEHIBA**
Exploring the Structural, Electronic, and Optical Characteristics of a Novel Heusler Compound Using Density Functional Theory
- POS 33** **Korichi HAMICHE**
Effect of Mn Doping on the Electronic Properties of CsPbCl_3 : DFT and Machine Learning-Based Study
- POS 34** **Amina LAHOUALI DIT YAHYAOU**
Electrochemical and Photovoltaic Properties of a Heterocyclic Schiff-Base Compound
- POS 35** **Fatima Zohra BENAOUINA**
Structural, Spectroscopic and Computational Investigation of a New Organic Molecule
- POS 36** **Selma REBHI**
Unraveling Hydrogen Storage Potential in a Novel Perovskite Hydride: A First-Principles Investigation
- POS 37** **Hadjer Bendjilali**
Assessing Hydrogen Storage Performance in a Novel Perovskite Hydride through First-Principles Calculations
- POS 38** **Mohammed Chaouki ZIARA**
Assistive Navigation for Visually Impaired Pedestrians: Depth-Guided Semantic Perception Using Multimodal Fusion and Kalman Tracking
- POS 39** **Lahouaria HENNI**
Development of a heterostructured photocatalyst supported on exfoliated clay for the treatment of pharmaceutical pollutants
- POS 40** **bahia BENALIOUA**
Development of a novel clay modified photocatalyst for the photocatalytic reduction of a heavy metal pollutant under visible light
- POS 41** **Orkia BENZAIDI**
Adsorption of Amoxicillin from Aqueous Solution Using Activated Carbon Derived from Quercus infectoria Galls: Experimental Investigation and Material Characterization
- POS 42** **Anfel AMERI**
Bending Behavior of Functionally Graded Plates Using a Refined Quasi-3D Shear Deformation Theory with a New Shape Function
- POS 43** **Mohammed HAMD** CHERIF
Advanced Computational Insights into Ba_2CoUO_6 and Ba_2NiUO_6 : Potential Applications in Spintronics
- POS 44** **Noureddine MECHEHOUD**
A DFT Analysis of the Optical and Thermoelectric Potential of Novel Half-Semiconductor Ferromagnets Chloro-Elpasolite $\text{Rb}_3\text{AgMoCl}_6$
- POS 45** **Saleh Gamal Saleh YASLAM**
Effect of Activated Carbon-Supported Metal Oxide Composites on Adsorptive Dye Removal Performance
- POS 46** **Ahmed Nabil LOUAHEM M'SABAH**
Surface Modification of Coffee Dregs by Low-Dose Gamma Irradiation for Improved HDPE Composite Properties
- POS 47** **Mokhtar BENZEKRI BENALLOU**
Study of the Adsorption of Two Acid and Basic Dyes onto Modified Activated Carbon in Aqueous Solution: Kinetic, Isotherm, and Thermodynamic Aspects
- POS 48** **Nadia DOUARA**
Experimental Study and Modeling of Erionyl Red RS Adsorption onto Pomegranate
- POS 49** **Mohamed KESSAS**
Fe-induced strengthening of ferromagnetism and its influence on thermal properties of MnNiZ ($\text{Z} = \text{Sb, Bi}$) Half-Heusler compounds
- POS 50** **Khedidja MECHEHOUD**
Theoretical Exploration of Half-Metallic Double Perovskite Oxides for Spintronic and Photovoltaic Applications



2nd Day | 14 Octobre 2026



Online Session (Room: 1)



President: Pr. S. ATTOUTI



10:00

COM 1

Fatima BETRAOUI

From Binary compounds to Ternary Alloy: Structural and Electronic Property Correlations in As-based system

COM 2

Amel ILES

Synthesis and application of nanocomposites for inorganic pollutant removal

COM 3

Nouri LAIB

Transformation des déchets agricoles en matériaux composites

COM 4

Meriem GASMI

ZnO/NiO heterojunction thin film-based UV photodetector fabricated by dip coating technique

COM 5

Maamar MALKI

Analysis of combined effects of ferrofluid and piezoviscous dependency on hydrodynamic journal bearings

COM 6

Omar NOUARI

Applications des nanoparticules dans la récupération assistée du pétrole

COM 7

Ismahen OSMANI

Modal Analysis and Refractive Index Profile Reconstruction of Planar Waveguides in SLS Glass

COM 8

Adel LAKEL

Study of the Bending Behavior of a Multidirectionally Functionally Graded Porous Sandwich Plate

COM 9

samah KERROUCHE

Mathematical Modeling and Numerical Investigation of Williamson Nanofluid Flow over a Stretching Plate: Influence of Schmidt and Prandtl Numbers on Heat and Mass Transfer Characteristics

COM 10

Rahil AZIZI

Sb-doped indium oxide thin films by ultrasonic spray: X-ray diffraction, SEM, UV, FTIR and Photoluminescence studies

COM 11

Zohra YELLAS

Thermal Stability and Nonlinear Optical Response of Periodically-Poled GaN Nanostructures for Integrated Photonics

COM 12

Ali MEFTAH

The Effect of Non-Local Parameter and Parameter of Elastic Foundation on The Free Vibration of FGM Nanoplate

COM 13

Younes NACEUR

Advanced Materials and Functional Nanostructures for Sustainable Energy and Environmental Applications

COM 14

Khayra DRAOUCHE

Analyse des vibrations libres de plaques FGM poreuses et fissurées

COM 15

Bekki YAHIAOUI

Computational Study of Nonlinear Optoelectronic Properties of Anhydride Derivatives

COM 16

Elbatoul BENIDRIS

Design-of experiments optimization of the photocatalytic degradation of AG25 Dye over a samarium doped spinel nanoferrite

COM 17

Amira SADGUI

Finite Element Analysis of the Static Response of Advanced

COM 18

Ahmed Nabil LOUAHEM M'SABAH

Surface Modification of Coffee Dregs by Low-Dose Gamma Irradiation for Improved HDPE Composite Properties

COM 19

Yasser BOUKADOUM

Theoretical Mathematical Modeling of Coupled Heat and Mass Transfer Phenomena in High-Temperature Solid Oxide Electrolysis Cells (SOEC) for Green Hydrogen Production

COM 20

Fatna MAHDADI

Mineral Resources and Construction Materials: A Geospatial Approach for Sustainable Valorization in the Tizi-Ouzou Wilaya

COM 21

Ismahen OSMANI

Modal Analysis and Refractive Index Profile Reconstruction of Planar Waveguides in SLS Glass

COM 22

Ali MEFTAH

The impacts of porosity and nonlocality on the frequency of free vibration behavior of functionally graded nanoplates



Online Session (Room: 2)



President: Pr. S. MELLOUK

🕒 10:00 |

COM 1

Mimoune DERREZ

Multi-Scale Modeling and Predictive Analysis of the Mechanical Behavior of Structural Metallic Materials: Microstructure-Property Correlation

COM 2

Amina TOUIA

Ab Initio Investigation of Cubic Double Perovskites: Structural, Electronic, and Magnetic Properties

COM 3

Hassen MESBAH

Structural, Electronic, and Optical Properties of TiMgF_3 and TiCaF_3 Fluoroperovskites: A DFT Study

COM 4

Wissem GOUASMIA

Ab-Initio Investigation of the Structural, Electronic, Elastic, Optical and Thermal Properties of $\text{AlSb}_{1-x}\text{Bi}_x$ Alloys

COM 5

Sabah CHERIF

Control of the Spatial Distribution of a Gaussian Laser Beam Using a Phase Diffractive Element: Numerical Study and Experimental Validation

COM 6

Sarra SENDJASNI

Modeling the Structural Behavior of FRP-Confined Concrete Columns Using Machine Learning

COM 7

Sonia CHEBOUKI

Computational exploration of novel lead free double perovskites $\text{X}_2\text{CdZnCl}_6$ ($\text{X} = \text{Na}$ and K): A DFT study of their optoelectronic and mechanical performance.

COM 8

Meriem TAIER

Study of the removal of toxic pollutants from the environment by two-dimensional materials B_3C

COM 9

Fatine Ali MESSIAD

Adsorption of Toxic Gases on $\text{Mg}_{12}\text{O}_{12}$ Nanoclusters: A DFT Investigation

COM 10

Meryem OURRAD

Landau-Devonshire Analysis of the Temperature-Dependent Phase Transition in The Perovskite BaTiO_3

COM 11

Sarra SENDJASNI

Enhanced Deep Learning Framework for Predicting FRP-Confined CFST Columns: BiLSTM and Hybrid CNN-BiLSTM Approaches

COM 12

Fatima KECHROUD

Evaluation of the Resistance of Fly Ash Concrete to Chloride Penetration Using Artificial Intelligence

COM 13

Amor BELILA

Prediction of Proton Exchange Membrane Fuel Cell Efficiency Using Hybrid Artificial Neural Network Optimized by E-Jaya and PSO Algorithms

COM 14

Kheira BAHNES

CoFeYGe ($\text{Y} = \text{Cr}, \text{Ti}$) Quaternary Heusler Alloys: Promising Half-Metallic Materials for Sustainable Thermoelectric Energy Conversion and Spintronic Devices

COM 15

Sarah ZEGHBIB

Machine Learning-Assisted Modelling and Optimization of Solar Photocatalytic Degradation of Cefuroxime Using Silver Doped ZnO

COM 16

Walid ZEGHBIB

Numerical Modeling of Carbide Precipitation Kinetics During Gas Carburizing of High-Chromium Tool Steel Using MatCalc

COM 17

Malika BOURREK

DFT and molecular dynamics simulation of a cationic surfactant as a corrosion inhibitor on the Fe (110) surface

COM 18

Mostapha FERDJAOUI

Approximate Analytical Bound-State Solutions of Klein-Gordon Equation for q -Deformed Hulthén-Quadratic Exponential-Type Potential

COM 19

Abdeladim AID

Thermomechanical Behavior of Advanced Composite Materials

COM 20

Kenza IRINISLIMANE

Modeling and simulation of fluid mixing with solutions



Online Session (Room: 3)



President: Dr. M.KHELLADI

🕒 14:00

COM 1

Amina SARDI

Rôle de la longueur de chaîne du polyéthylène glycol dans la synthèse de nanocomposites organo-argileux pour l'élimination des colorants cationiques et anioniques

COM 2

Souad BENNABI

Development and characterization of a Metal-Organic Framework-Based Hybrid Material by Combining Layered Double Hydroxide (LDH) with Trimesic Acid as an Organic Ligand

COM 3

Khemissi LAHOUEL

Fabrication and characterisation of pure and Ni-doped ZnO thin films by spray pyrolysis for advanced optoelectronic applications.

COM 4

Khadidja KRADRA BRAHMA

Fabrication and Chemical-physics Characterization of Hybrid Nanocomposites

COM 5

Yacine GACI

Magnetic Nanomaterials, Interconnection of Properties and Complexity of Studies

COM 6

Khadidja GOUTTAL

Optimization of Kaolin-Based Ceramic Microfiltration Membranes Using Response Surface Methodology (RSM) Based on Central Composite Design (CCD)

COM 7

Cylia YAHIAOUI

Processing-Structure-Property Relationships in Steam-Treated Natural Cork material

COM 8

Khadidja GOUTTAL

Optimization of Kaolin-Based Ceramic Microfiltration Membranes Using Response Surface Methodology (RSM) Based on Central Composite Design (CCD)

COM 9

Nesrine LOUATI

Effect of Sb Incorporation on the Structural, Phase Stability, and Electronic Properties of AlN: A First-Principles Study

COM 10

Fatma BAGHDAD BENABED

Preparation and Characterization of Activated Carbon Derived from Pine Cone Biomass

COM 11

Badreddine DJEMMALI

Preparation and Characterization of Activated Biochar Derived from Plastic Waste for Water Treatment Applications

COM 12

Hafsa HAROUN

Green synthesis of ZnBi_2O_4 using clove extract for the photocatalytic degradation of a cationic dye with mineralization and phytotoxicity assessment

COM 13

Walid ZEGHBIB

Microstructural Characterization of Carbon Diffusion and Secondary Carbide Precipitation in a Gas-Carburized High-Chromium Tool Steel

COM 14

khedidja BOUDADI

Development of Sustainable Materials: Preparation, Characterization, Performance and Regeneration

COM 15

Amel AATTACHE

Influence of Superplasticizer Type on the Mechanical Performance of Composite Mortars Incorporating Recycled Plastic Waste

COM 16

Yasmine Hamiane

Fabrication and Characterization of Al/IF Steel Multilayer Composites by Accumulative Roll Bonding for Lightweight Structural Applications: Microstructural Evolution and Hardening Behavior as a Function of Processing Cycles.

COM 17

Rafik Abdelkrim BOUDIA

Zeolite GIS Polymorphs Derived from Clay Fraction $> 2 \mu\text{m}$: The Ability of Clay Fraction $> 2 \mu\text{m}$ for Crystallization of High-Purity Na-P1 Zeolite

COM 18

Samra BENKACEM

Élaboration d'un catalyseur Ca/Argile et son application dans la réaction de transestérification des huiles alimentaires usagées pour la production de biodiesel

COM 19

Meriem DORBANI

Optimization of soil properties using ecological additions

COM 20

El Bachir NEGOUDI

Sustainable Synthesis and Performance Evaluation of CuO Nanoparticles for industrial wastewater treatment

COM 21

Samira BOUMOUS

Artificial Intelligence-Driven Fault Diagnosis and Performance Optimization of Photovoltaic Systems for Enhanced Solar Energy Efficiency

COM 22

Meriem DORBANI

Ecological Evaluation and Efficiency of Sustainable Materials



Online Session (Room: 4)



President: Dr. Z. MOHAMED SEGHIR

10:00

COM 1

Sabrina MORAKEB

Intelligent Energy Management and Optimization of Battery Energy Storage Systems for Sustainable and Reliable Power Systems

COM 2

Nourelhouda SLIMANI

Influence of Slaking on Soil Erodibility Assessment in Earthen Hydraulic Structures: A Review

COM 3

Zouina BERREHRAH

Modeling and optimization of ketoprofen bioremediation process by a freshwater microalgal consortium

COM 4

Ikram REGUIEG

Improving Dye Removal Efficiency Through Adsorbent Dosage Optimization of Biodegradable AC/EC/RWP Microspheres

COM 5

Fatima Zohra BOUBEKRI

Adsorption of Copper (II) by a biocomposite film using design of experiment: adsorbent dosage and metal concentration effect

COM 6

Latefa SAIL

Towards Exploring Extraction plants as corrosion inhibitors for concrete reinforcements

COM 7

Amina BETRAOUI

Development of Novel Hydrogels Based on Agar-Agar Grafted with Acrylic Acid and Acrylamide for the Adsorption of Cationic Dyes in Wastewater Treatment

COM 8

Keltoum BOUDI

The influence of additions from the BECHAR region on the mechanical properties of mortars.

COM 9

Latefa SAIL

Extract of Eucalyptus as corrosion inhibitor in concrete beams

COM 10

Abdelghani BENAÏSSA

Structural, Optical, and Morphological Investigation of Spray-Coated Pure and Molybdenum-Doped ZnO Thin Films for Energy-Related Applications

COM 11

Samra BENKACEM

Process Development for Biodiesel Production from Used Cooking Oils

COM 12

Amina BETRAOUI

Développement de nouveaux hydrogels à base d'agar-agar greffé avec de l'acide acrylique et de l'acrylamide pour l'adsorption de colorants cationiques dans le traitement des eaux usées

COM 13

Abdelghani BENAÏSSA

Exploring The Potential Of Metal Oxide-Based Thin Films: Synthesis, Physico-Chemical Properties And Uses For The Environment

COM 14

Amani Sabrina LAKHDARI

محاكاة وتحسين أداء خلية شمسية بيروفسكايتية باستخدام SCAPS-1D برنامج

COM 15

Hanane SELG

Importance of Kinetic Studies in The Adsorption Process for Dyes Removal From Contaminated Water.

COM 16

Amine HADJOUNI

Design And Optimization Of An Intrinsic-Layer Enhanced Ingan Pin Solar Cell Using Silvaco Tcad

COM 17

Kahina MESSARA

Effect of Compaction Stress on the Abrasion Resistance of Compacted Earth Blocks CEB

COM 18

Rima TONAL

Iron ore tailings as a sustainable stabilizing material for expansive soil: geotechnical performance and environmental assessment.

COM 19

Halima MECHLOUF

Transforming Plastic Waste into Sustainable Building Solutions.

COM 20

Fatma-zohra GUENDEZ

Evaluation of the Adsorption Potential of Local Materials for the Treatment of Colored Wastewater in Wastewater Treatment Plants

COM 21

Badreddine DJEMMALI

Effect of Chemical Activation on Olive Waste-Derived Carbon for Efficient Phenol Adsorption

COM 22

Abdelghani BENAÏSSA

Chalcogenide Thin Films for Solar Energy: Growth and Properties via Spray Pyrolysis Technique.





Online Session (Room: 5)



President: Dr. F. OUADJENIA

🕒 10:00

COM 1

amina ZERROUK

Smart Computational Design of Ruthenium-Based Therapeutic Candidates Using ADMET Prediction Tools

COM 2

fateh MAYOUF

Comparative Antibacterial Evaluation of PPy/AgNPs, PPy/TiO₂NPs, and Ternary AgNPs/PPy-TiO₂NPs Nanocomposites against Escherichia coli and Staphylococcus aureus

COM 3

Miloud KHENIFER

Protective Effect Of Boride Layers On The High-Temperature Oxidation Of Aisi 316L Stainless Steel

COM 4

Younes NACEUR

Materials and Technologies for Healthcare: A Comparative Study of Chitosan/Graphene Oxide/Silver Nanocomposite Hydrogel

COM 5

Ismail KORIBA

Diamond-like carbon to improve the surface performance of Ti6Al4V biomedical alloy: A review

COM 6

Abdelhak OULDYEROU

Fea Biomechanical Evaluation Of Endocrown Materials At Different Preparation Depths

COM 7

Kenza IRINISLIMANE

Modeling and Simulation of Natural Fluid Convection in Cavities

COM 8

Sarah ZEGHBIB

Solar-Driven Photocatalytic Degradation of a Cationic Dye Using a Heterostructured Photocatalyst Synthesized via PVP-Assisted Sol-Gel Combustion

COM 9

Mohammed KSOURI

Hygrothermal performance of an innovative composite integrating diss fibers and recycled terracotta powder for sustainable buildings

COM 10

Meriem KERARA

Perovskite solar cells with and without hole transport layers: a numerical analysis using scaps1d

COM 11

Lina BENKRALED

Effect of adding low molecular weight poly(ethylene glycol) as plasticizer on thermal and rheological properties of poly(lactic acid)

COM 12

Roukia TESTAS

Synthesis of a Photocatalytic Material from Olive Stones for Enhanced Solar Photocatalytic Removal of Organic Pollutants from Water

COM 13

Miloud KHENIFER

Modulation Of Concentration Polarization In Electrodialysis Using An Ammonia/Ammonium Buffer

COM 14

Abdelkarim TAHTAH

Economic And Environmental Analysis Optimisation Of A 12 Mw Wind Farm

COM 15

Ibtissam TABBI

Comparative Performance Analysis of Harris Hawks Optimization, Particle Swarm Optimization, and Ant Lion Optimizer for Solar Cell Parameter

COM 16

Lakehal Bachir HUSSEIN

Contribution à la valorisation de granulats recyclés à base de polymères dans la formulation d'un mortier autoplaçant léger à impact environnemental réduit

COM 17

Rabia BOUDIA

Valorization of an Agricultural Waste into a Bio-Based Adsorbent for Textile Wastewater Treatment

COM 18

Rafik Abdelkrim BOUDIA

Eco-Friendly FeIII-Layered Double Oxide/Zeolite-P1 Nanocomposite with Low-Spin-State Ferric Iron Tuned for Pollutant Adsorption in Simulated Wastewater

COM 19

Noureddine SARIR

Metaheuristic-Tuned Fuzzy Fractional-PI Voltage Control for PV Battery-Supercapacitor Systems

COM 20

Fatma BELABBES

Valorization of Algerian Cotton Dust into KOH-Activated Carbon: Proof-of-Concept for Deep Black SNG Adsorption