Hybrid International Scientific Conference
On

1ST INTERNATIONAL CONFERENCE ON INNOVATION RESEARCH IN MATERIALS AND NANOTECHNOLOGY

ICIRMN-2023

November 29-30, 2023, Ghardaia, Algeria

(Hybrid meeting, remote or presence)

https://icirmn-2023.sciencesconf.org/

Chairwomen of conference: Dr. Yasmina Khane, Ghardaia University, Algeria

Honorary Chairman: Prof. Bensaci Ilyes, Rector of Ghardaia University, Algeria
Honorary vice Chairman: Dr. Sadouni Radhwane, Dean of sciences and technology faculty, Ghardaia University, Algeria

Scientific Committee Chair: Dr.Touaiti Farid, Ghardaia University, Algeria
Scientific Committee Co-Chair: Dr Hadj Daoud Bouras, Ghardaia University, Algeria
Scientific Committee

Topic 1

Dr. Hafsi Zoulikha, Algeria
Dr. Sebaa Hadj Yahia, Algeria
Dr. Zebiri Ikram, Algeria
Pr Khan Mohammed Mansoob, Universiti Brunei Darussalam.
Prof. Mika Sillanpää, Finland
Prof. Zegaoui Abdallah, Algeria
Prof. Chabira Salem Fouad, Algeria.
Prof. Djedid mabrouk, Algeria.
Prof. Zoukel Abdelhalim Algeria.
Prof. Zerrouki Djamal, Algeria.
Prof. Achi Fethi, Algeria.
Dr Chaibi Wahiba, Algeria

Dr Hadj Daoud Bouras
Pr Noureddine Bouras, Algeria
Pr Ana luisa Fernando, Portugal.
Pr Mennouche Djamel, Algeria.
Pr Chennouf Nasreddine, Algeria.
Dr. Zine El Abidine Benarima, Algeria
Dr Babaamer Zohra, Algeria

Dr.Touaiti Farid, Algeria
Dr Iman Raache , Algeria
Prof. Albukhaty Salim, Iraq
Prof. Ghassan Sulaiman, Iraq.
Dr Hocin Saadoun Yacin, Iraq
Prof. Foad Buazar, Iran

Dr. Bacha Oussama,
Dr Nebati Abdelkader, Algeria
Prof. Fekirini hamida, Algeria
Dr Tabchouche Ahmed, Algeria
Dr Zoubeidi Naoual, Algeria.
Prof. Chahinez FARES, Algeria.
Prof. Anak Barkahem, , Algeria.
Prof. djedouani Amel, Algeria
Dr Zouambi leila, Algeria
Dr Mohamedi Mohamed walid, Algeria
Dr Sediri Khaldia, Algeria
Dr Boufenaya Hamza, Algeria
Dr Taibi Mohamed, Algeria

Topic 2

Dr Daoud Mounir, Algeria
Dr Bennabi Farid, Algeria
Dr Rahmani Khaled, Algeria
Dr Guella Sofiane, Algeria
Dr Ouazani Fouzia , Algeria
Dr Fertout radia iman, Algeria

Topic 3

Dr. Khane Yasmina, Algeria
Prof. Metref Farid, Algeria
Dr. Nouasria Fatima Zohra, Algeria
Pr Taouti Mohamed Benabdallah, Algeria.
Dr. Adel Kareem Jasim, Iraq
Dr. Raed Saddam Madhi, Iraq

Organizing Committee Chair: Mansouri Khaled, Ghardaia university
Organizing Committee Co-Chair: Arif Mohammed, Ghardaia university

Organizing Committee

Dr.Touaiti Farid
Dr Hadj Daoud Bouras
Dr. Raache Imane
Dr. Zine El Abidine Benarima
Dr. Zouikha Hafsi
Dr. Sebaa Hadj Yahia
Dr. Zebiri Ikram
Dr. Hacene Nacer
Dr. Fenniche Fares
Dr. Boukhari Hamed
Dr. Agoun Salah
Dr. Mosbah charaf Abdekarim
Dr. Aouf Djaber
Dr. Aouf Mohammed
Melle. Bahaz Safa
Dr. Djehad Bentarfa
Dr. Zineb Hadj amar
Dr. Bachir Bensalah
Dr. Kesbi Brahim
Dr. Fenniche Abderrezak
Dr. Azzaoui Mohamed
Dr. Benchadi Wassila
Dr. Lakhedari Hakim
Dr. Matallah Messaouda
Dr. Bekkar Belgacem
Dr. Babaarbi Ilyes
Dr. Adamou Youcef
Dr. Bouamer Khaeira
Dr. Kina Abdekrim
Dr. Mustapha Loghlam
Dr. Radhwane Sadouni
Dr. Mosbah Said
Dr. Abdelouahab Khattara
Dr. Belghite Hakim
Dr. Tahtah Reda
Dr. Rachid Djeffal
Dr. Fakhar Bahmed
Dr. Degha Houssem Eddine
Dr. ADDOUNE Noura

Faculty of sciences and Technology en Sciences et Technologie
University of Ghardaia

Agence Thématique de Recherche en Sciences et Technologie

ICIRMN 2023

THE 1ST INTERNATIONAL CONFERENCE ON INNOVATION RESEARCH IN MATERIALS AND NANOTECHNOLOGY (ICIRMN 2023)

NOVEMBER 29-30, 2023

TOPIC 1:
MATERIALS SCIENCE AND CHARACTERISATION

BIOMATERIALS, ENERGY MATERIALS, POLYMERS AND SOFT MATTER, SEMICONDUCTOR PHYSICS AND DEVICES, SUPERCAPACITORS, ADVANCED MATERIALS FOR CLEAN AND RENEWABLE ENERGY, MATERIAL CHARACTERIZATION, COMPUTATIONAL MATERIALS SCIENCE AND ENGINEERING

TOPIC 2:
CHEMISTRY AND ENVIRONMENTAL ENGINEERING

BIOCHEMISTRY, GREEN CHEMISTRY, TREAT WAST AND PRESERVE THE ENVIRONMENT, NATUREL PRODUCT, BIOSYNTHESIS, SOIL, PLANT AND WATER SCIENCE, GREEN ENERGY AND ENVIRONMENTAL TECHNOLOGY, ARTIFICIAL INTELLIGENCE IN CHEMISTRY, HYDROGEN ENERGY AND FUEL CELL.

TOPIC 3:
SYNTHESIS, CHARACTERIZATION AND APPLICATION OF NANOMATERIALS

ADVANCES IN NANOTECHNOLOGY, CARBON NANOSTRUCTURES AND GRAPHENE, NANO BIOTECHNOLOGY, DRUG DELIVERY AND NANOMEDICINE, BIOLOGICAL AND MEDICAL NANO DEVICES NANOSCALE FABRICATION, NANOTECHNOLOGY FOR ENVIRONMENT AND ENERGY, NANOTECHNOLOGY IN MATERIALS SCIENCE, PHARMACEUTICAL NANOTECHNOLOGY, BIO-NANO INTERACTION, POLYMERS SCIENCE NANOCOMPOSITE & NANO ENGINEERING.

Plenary and Keynote Speakers

https://icirmn-2023.sciencesconf.org/resource/page/id/14

Prof. Albukhaty Salim, university of Misan, Iraq

Presentation Title: Neural Stem Cells Labeling by Super Paramagnetic Iron Oxide Nanoparticles for Gene Transfection

Prof. Salim Albukhaty is a Ph.D. holder in Nano-Biotechnology with a background in veterinary medicine and public health. He is an accomplished professor of Nanobiotechnology with expertise in various research areas, including the design and fabrication of nanoparticles for anti-cancer drug delivery, electrospun nanofibers for wound dressing, and the green synthesis of metal oxide nanoparticles with antimicrobial properties.

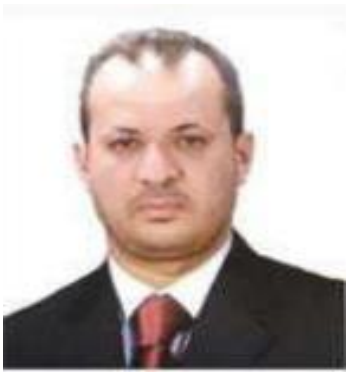
He is particularly interested in the application of nanotechnology in drug delivery and stem cell research. Salim Albukhaty is an active member of several professional associations, including the Middle East Molecular Biology Society (MEMBS), Iran nanotechnology initiative council (INIC), World Academy of Science, Engineering, and Technology (WASET), and the International Center for Genetic Engineering and Biotechnology (ICGEB).

Salim has a wealth of experience in academia and has held various administrative positions within Misan University, Iraq, including serving as the Dean of the Nursing College. He has supervised postgraduate research scholars, published numerous research papers in academic journals, and presented his work at national and international conferences.

His research interests include the synthesis of nanoparticles, their characterization, and their applications in diverse fields, such as drug delivery, wound healing, and antimicrobial activity. Salim Albukhaty has made significant contributions to the scientific community through his research, and his work is well-documented in reputable journals.

For more detailed information, you can refer to his Google Scholar, ResearchGate, and Scopus profiles to explore his publications and research contributions. Salim Albukhaty's work covers a broad spectrum of topics, from nanoparticle synthesis to their biomedical applications, making him a valuable contributor to the field of nanobiotechnology.

Google Scholar Profile:https://scholar.google.com/citations?user=_zBwmJAAAAAJ&hl=en
Research gate profile: https://www.researchgate.net/profile/Salim-Albukhaty
Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=55628883500



Dr Hussein Saadoon, university of Misan, Iraq

Presentation Title: A Comparative Study of Photocatalyst Activity: CDO:GO Composite and CDS:ZNO Composite Nanofiber

Dr Hocin Saadoun is a Ph.D. in Nano-Biotechnology with a background in veterinary medicine and public health. He is currently working at Baghdad university, Iraq.

He is particularly interested in the Manufacture of a nano—ointment from natural sources to treat burns of rabbit skin and measure its effectiveness as an antibocterial for several types of gram-positive and gram—negative bacteria as well as a complete histological study of the stages of nano-ointment treatment (nono silver – animal fat - zinc juice) to determine the best dose In the treatment of rabbit skin burns.

As weII as preparing silver nonoporticles made from green plant extract and silver nitrate using simple chemical methods and inexpensive local materials, and characterizing the structural properties surface morphology and granular size of the nonoportlctes by means of X- ray diffraction devices XRD), scanning

electron microscope (SEM) and infrared FTIR, And chemical analysis of the sample elements EDXS.
Hocin has a wealth of experience in employment of DC Sputtering for Synthesizing Nano Cadmium Oxide for Sevoflurane Anesthetic Gas Sensor, Preparation of Nonogold and binding of nisin to increase Its effectiveness in inhibiting the positive and negative bacteria

Research gate profile: https://www.researchgate.net/profile/Hussein-Saadoun

Prof. Ana luisa Fernando, Compus de Caparica, Portugal.

Bionanocomposites for Food packaging - challenges to overcome, opportunities to explore

Ana Luisa FERNANDO is an Associate Professor at the Department of Chemistry (Departamento de Química - DQ) of the NOVA School of Science and Technology, Universidade Nova de Lisboa and is integrating the Research Unit of Mechanical Engineering and Resource Sustainability Center (MEtRiCS) hosted at FCT NOVA with scientific and administrative autonomy, strategically accommodating the research interests of the area of Sciences and Technology of Biomass.
She has been working with energy crops for more than 30 years, with special interest on studies related with the Sustainability of energy crops production (use of marginal land; efficient use of water and mineral resources; environmental impact assessment studies to detect options for systems improvement) and valorization options (production of nanocellulose, biobased products, nanolignin, biochar, bio.based bricks, etc). Parallel to those activities, she has also been working in the field of Food Technology and Safety, by testing natural compounds extracted from plants into biopolymers for food active and intelligent packaging or as additives for food preservation.
She is dedicated to teaching and scientific activities in the field of Environmental Biotechnology, in the interface of Environmental Sciences and Biotechnology, Food Technology and Safety, and Biomass, Bioenergy and Biorefineries. As a member of the University there is a permanent share of the know-how with students and members of other research teams. Research subjects with a social, economic and environmental impact contributing to the improvement of the quality of life were always privileged. The very broad areas of research resulted also from the opportunities provided by financed projects (regional, national and international), a major driver-force in the activities of the University. She has authored more than 100 articles (in journals/proceedings indexed to SCOPUS/WoS), 15 book chapters, 2 technical books and presented over 250 communications in international conferences. Supervised 7 Ph.D. students and 95 MSc students (all concluded).
As an Associate Professor, collaborates regularly with other universities and higher education institutions in under graduation, graduation, post-graduation, specialised and advanced courses and formation studies. **Ana Luisa Fernando** participates also on international teaching networks, like the Socrates/Erasmus/Erasmus Mundus Programmes. She is currently the coordinator of the Master in Food Technology and Safety and the PhD in Bioenergy (both at Universidade NOVA de Lisboa)
Supervision: 8 PhD thesis (concluded), 11 PhD underway, 120 MSc thesis (concluded), 80 Graduation thesis (concluded).
Examiner of 33 PhD students (national and international), 220 MSc students (national and international) and 57 Graduation thesis.
Since 1990 she contributes for the scientific interchange between institutions by signing agreements with others national and international institutions and industry networks, like Red SUMAS - Red Temática de Sustentabilidad Energética, Medio Ambiente y Sociedad (http://www2.ciicap.uaem.mx/rs/), EERA BIoenergy (www.eera-bioenergy.eu/). She is a Member of the Association for the Advancement of Industrial Crops (www.aaic.org), since 2013 and was the Chair of the General Crops Division from 2016 to 2022.

Organized several national and international meetings (latest: 30th European Biomass Conference and Exhibition, EUBCE 2022, ETA-Florence Renewable Energies, Online, May 9 – 12. Topic Organizer and Scientific Committee). Participated in several national and international meetings and conferences (including the 33rd annual meeting of the Association for the Advancement of Industrial Crops, Integrating technology with industrial crops and their products for a sustainable bioeconomy, October 9 - 12, 2022, Best Western Grantree, Bozeman, MT, USA).

Google Scholar Profile: https://scholar.google.com/citations?user=yRKMzDUAAAAJ&hl=pt-BR
Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=7004701962

Prof. Foad Buazar, Khorramshahr University of Marine Science and Technology, Iran.

Presentation Title: Marine-based nanophotocatalyst for degradation of organic pollutants: an innovative sustainable approach

Prof. Foad Buazar is an accomplished researcher and academic in the field of Organic Chemistry. He earned his Ph.D. degree in Organic Chemistry from Tarbiat Modares University, Iran, in 2009. Currently, Prof. Buazar holds the esteemed position of Associate Professor in the Department of Chemistry at KMSU University, where he has been serving since 2009.

With a distinguished H-index of 21, he has established himself as a respected authority in his field. His research interests lie at the intersection of interdisciplinary studies, focusing on the development of innovative green nanomaterials for catalysis, organic synthesis, biomedical applications, and environmental remediation.

He has published over 36 papers in top-tier international journals, and 33 international and national conferences showcasing the depth and breadth of his research expertise. Additionally, he has provided more than 100 verified reviews for various JCR journals, demonstrating his commitment to maintaining scientific rigor and quality. He is a proud member of prestigious organizations including the American Chemical Society and the Iran Nanotechnology Initiative Council (INIC), which further highlights his dedication to professional collaboration and knowledge exchange.

Recognized for his exceptional research acumen, He has successfully secured seven external funds from industry sources, underscoring his ability to translate his research into practical and impactful applications. His remarkable contributions to the field have led to his selection as a top faculty member in terms of University-Industry collaboration for three consecutive years. In addition to his academic achievements, Dr. Buazar is an accomplished inventor, credited with the creation of eight nanoscale products at the national level. This showcases his entrepreneurial spirit and commitment to driving innovation.

Dr. Foad Buazar exceptional research contributions have been widely acknowledged, as evidenced by his four-time election as the top researcher in Chemistry.

His vast knowledge, extensive publication record, and commitment to advancing scientific frontiers make him an invaluable asset to any international collaborative research projects.

Google Scholar Profile: https://scholar.google.com/citations?user=nMNIflQAAAAJ&hl=en
Research gate profile: https://www.researchgate.net/profile/F-Buazar

Prof Khan Mohammed Mansoob, Chemical Sciences, Faculty of Science, Universiti Brunei Darussalam, Brunei Darussalam.

Presentation Title: Photocatalysis: A green approach for sustainable energy and environment

Prof. Mansoob is currently working at Chemical Sciences, Faculty of Science, Universiti Brunei Darussalam, Brunei Darussalam.

He has earned his PhD from Aligarh Muslim University, Aligarh, India, in 2002.

He has worked in India, Ethiopia, Oman, and South Korea and has established excellence in teaching and novel research. He is involved in teaching various courses at undergraduate and postgraduate levels. He has edited three books and also authored two books.

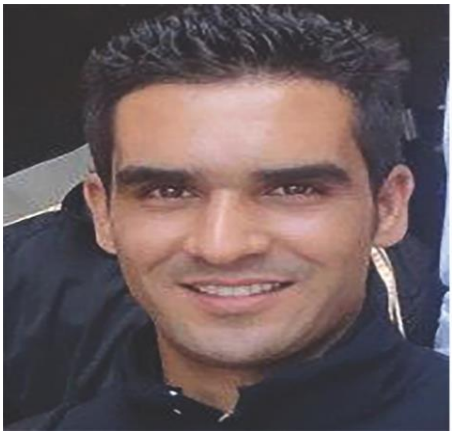
His expertise is in the cutting-edge area of nanochemistry, nanosciences, nanotechnology, materials sciences, and materials chemistry. Specifically, in the field of inorganic and nanohybrid materials such as synthesis of noble metal nanoparticles, metal oxides, chalcogenides, and their nanocomposites for various applications such as photocatalysis, etc.

Prof. Mansoob has about 200 publications in international peer-reviewed journals, conference proceedings, books, and book chapters having about 13,000 citations, h-index 56, and i10-index 114. Prof. Mansoob also has 05 Patents and has the opportunity to address 8 conferences as keynote speakers and delivered 14 invited talks. He is also a reviewer for ~09 dozens of international journals.

For further details, please go through following links: **https://orcid.org/0000-0002-8633-7493**

Google Scholar Profile: **https://scholar.google.co.kr/citations?user=ynzk598AAAAJ&hl=en**

Scopus Profile: **https://www.scopus.com/authid/detail.uri?authorId=55226652100**



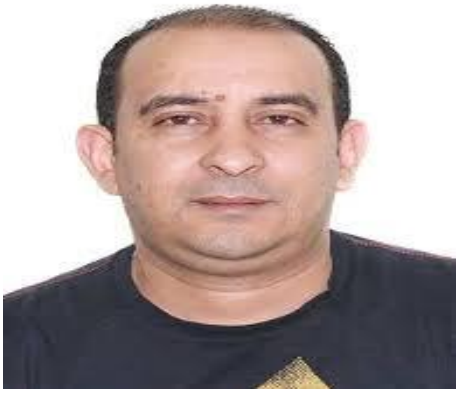
Prof Achi Fethi, Kasdi Merbah university, Ouargla, Algeria.

Presentation Title: "The innovative nanomaterials for electrochemical sensors as analytical tools for clinical and medical applications"

Prof. ACHI Fethi is a professor in the Department of process engineering at KASDI-Merbah University, Ouargla, Rep. of Algeria, since 2015. He received his Ph.D. from the Department of process Engineering in the University of A. Mira of BEJAIA in 2015. Professor ACHI's research over the last 10 years has focused on sensors and biosensors and their use in analytical chemistry. His fields of interest include electrochemistry, sensors and biosensors. In addition to his Reviewership of *Biosensors and Bioelectronics journal*, he is a chair of several national seminars, JCGP2019 (https://jcgp2019.sciencesconf.org/), SNGP2021 (https://sngp2021.sciencesconf.org/), SNGP2023, (https://sngp2024.sciencesconf.org/). Also, he was a chair of an international Seminar (ISMSEM 2022, https://ismsem2022.sciencesconf.org/). Prof. ACHI has supervised 03 PhD students and several other graduate students.

Google Scholar Profile: **https://scholar.google.fr/citations?user=BGI1KQQAAAAJ&hl=en**

Research gate profile: **https://www.researchgate.net/profile/F-Achi**



Dr. Nebatti Ech-Chergui Abdelkader University of Ain-Temouchent Belhadj Bouchaib, Algeria

Presentation Title: "Nanostructured Films: Deposition and

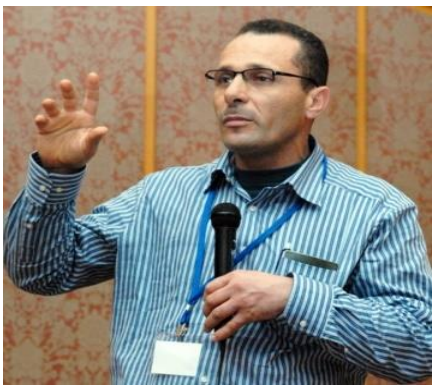
Dr Nebatti graduated from the physics department at Oran University, Algeria in 2000. He then completed his MSc in Materials Sciences at Oran University, Algeria in 2004. In 2011, he obtained his Ph.D. in the Department of Thermodynamics from Duisburg-Essen University in Germany. Additionally, he conducted postdoctoral research in 2013 at the Materials Science Institute of Seville (ICMS) at the University of Seville, Spain.

Dr. Nebatti has authored and co-authored more than 25 papers in peer-reviewed international journals and 18 publications in predominantly international congress proceedings. He serves as a reviewer for several journals and conferences. Recently, he has been a lecturer and physician-scientist in the physics department at Ain-Temouchenent University, Algeria. Currently, he is focused on solution/ink-processed emerging absorber materials for solar photovoltaic applications and exploring the functionalization of synthesized materials for purposes such as photocatalytic degradation and antibacterial activity.

For further details, please go through following links:

Google Scholar Profile: https://scholar.google.com/citations?user=s94UwoEAAAAJ&hl=en

gate profile: https://www.researchgate.net/profile/Nebatti-Abdelkader?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6Il9kaXJlY3QiLCJwYWdlIjoiX2RpcmVjdCJ9fQ



Prof. Abdallah Zegaoui, Ghardaia university, Algeria

Presentation Title: "Design Of Experiments: a Performent tool for technological systems modeling."

Prof Dr. Abdallah ZEGAOUI is a Professor of Electrical Engineering at university of Ghardaia in Algeria. He is a world-renowned expert in the field of renewable energy systems, control of power systems, electrical network and electrical engineering systems. He holds a Ph.D. in Electrical Engineering from both university USTO in Algeria and University of Lorraine in France. He received his Bachelor of Science degree in Electrical Engineering from University of Chlef in 1994. Prof A. ZEGAOUI has over 29 years of experience in teaching and research. He has taught a variety of undergraduate and graduate courses in electrical engineering, including electrical networks, Power Electronics, Photovoltaic systems, Microprocessors and microcontrollers and so on. He is also a prolific researcher. He has authored and co-authored over 62 papers in peer-reviewed journals and international conferences and has received numerous grants for his work. He is a Reviewer with Solar Energy Journal (WoS). Prof Abdallah ZEGAOUI is an expert in the field of renewable energy systems. His research interests include Power electronics dedicated to renewable energy systems, modelisation of systems using DoE, and HVDC bus renewable energy systems. He has also an experience of 8 years in Gas and Electricity company Sonelgaz in Algeria.

Google Scholar Profile: https://scholar.google.fr/citations?user=6w6inWUAAAAJ&hl=fr

Researchgate profile: https://www.researchgate.net/profile/Abdallah-Zegaoui-2l

Prof Metref Farid, Houari Boumediene University, Algeria

Presentation Title: Thermal Stability and Thermal Degradation Kinetics of Polymers and Their Nanocomposites Based on Bentonite and TiO_2

Prof. Farid Metref is a seasoned Teacher/Researcher with a career spanning since 1986. He currently serves at the Polymer Materials Laboratory within the Department of Macromolecular Chemistry at the Faculty of Chemistry, USTHB. Dr. Metref holds a diverse educational background, including a Postgraduate diploma (DES) in Organic Chemistry, a Magistere in Macromolecular Chemistry, and a State Doctorate in Macromolecular Chemistry from USTHB.

His teaching portfolio covers a range of core modules in both the old and LMD systems, encompassing subjects such as Structure of Matter, Thermodynamics, Mineral Chemistry, and Organic Chemistry. In addition, he imparts knowledge in Master modules focused on Macromolecular Chemistry, diving into topics like the Degradation of Polymers and Kinetics of Thermal Degradation.

Dr. Metref's research interests span Materials Chemistry, Polymer Chemistry, and Physical Chemistry. His extensive skills and expertise include Calorimetry, Polymer Blends, DSC (Differential Scanning Calorimetry), TGA (Thermogravimetric Analysis), Nanomaterials, FTIR Analysis, and Polymer Synthesis.

He has contributed significantly to the scientific community with notable publications, addressing subjects such as nanofibrous composites, thermal degradation behavior of nanocomposites, and facilitated transport of heavy metal ions through polymeric membranes.

In addition to his academic pursuits, Dr. Metref has held various administrative positions, including President of the Department Scientific Committee (2019-2022), Domain Responsible for Matter Sciences of USTHB (SM) (2020-2023), and is currently serving as the President of the Scientific Council of the Faculty of Chemistry – USTHB.

Google Scholar Profile: **https://scholar.google.com/citations?hl=en&user=E_HB0IkAAAAJ**

Research gate profile: **https://www.researchgate.net/profile/Farid-Metref**

ICIRMN 2023

International Conference on Innovation Research in Materials and Nanotechnology

November 29-30, 2023 : Ghardaia, Algeria

Conference Program

1st International Conference on Innovation Research in Materials and Nanotechnology

ICIRMN-2023

November 29-30, 2023, Ghardaia, ALGERIA

Conference Day 1 : November 29, 2023		**Start Time**
Registration		
Presentation: Dr. Abdelouahab Khattara		
Opening Ceremony	آيات بينات من القرآن الكريم	**08 :35**
	النشيد الوطني الجزائري	**08 :40**
	Dr. Yasmina Khane **General Conference Chair** **Univ. Ghardaia (Algeria)**	**08 :45**
	Dr. Radhwane Saadouni **Dean of science &technology Faculty (Algeria)**	**08 :50**
	Prof. Ilyes Bensaci **Ghardaia University Rector(Algeria)**	**08 :55**
Plenary Session		
Session Chair **Dr.Touaiti Farid** **Ghardaia University, Algeria**	**Prof. Bouras Noureddine** **Ghardaia University, Algeria**	
Prof Albukhaty Salim, university of Misan, Iraq	Neural Stem Cells Labeling by Super Paramagnetic Iron Oxide Nanoparticles for Gene Transfection	**09 :30** **10 :00**
Prof Foad Buazar, Khorramshahr University of Marine Science and Technology, Iran	Marine-based nanophotocatalyst for degradation of organic pollutants: an innovative sustainable approach	**10 :15** **10 :45**
Coffee Break		**11:00**
Poster session I		**11:10** **11.30**
Session Chair **Prof Achi Fethi** **Kasdi Merbah university** **Ouargla, Algeria.**	**Dr.Touaiti Farid** **Ghardaia University, Algeria**	

Prof Ana luisa Fernando, Compus de Caparica, Portugal	Bionanocomposites for Food packaging - challenges to overcome, opportunities to explore	**11 .30** **12 .15**
Dr Hocin Saadoun Yacin, university of Misen, Iraq	A Comparative Study of Photocatalyst Activity: CDO:GO Composite and CDS:ZNO Composite Nanofiber	**12 .15** **13 .00**
Lunch		
Keynote Lecture		
Room 1 **Dr. Bouras Hadj Daoud** **Ghardaia University, Algeria**	**Room 2** **Dr. Bouras Hadj Daoud** **Ghardaia University, Algeria**	**Room 3** **Dr. wahiba chaibi** **Djillali liabes University** **Sidi Bel Abbes, Algeria**
Prof. Abdallah Zegaoui **Ghardaia University, Algeria**		**Dr. Nebatti Ech-Chergui Abdelkader** **University of Ain-Temouchent Belhadj Bouchaib, Algeria**
Design Of Experiments: a Performent tool for technological systems modeling		Nanostructured Films: Deposition and Functionality **14:30** **15.00**
Oral Presentation		
Walid REZIG Diatomite supported nano zero valent iron in efficient degradation of industrial dye	**Kelthoum SAADALLAH** pea peel- based adsorbent: sustainable and eco-freindly agriculturalwaste for gentian violet dye removal from aqueous solution	**Bachir Kharroubi** Synthesis and photocatalytic activity research of Cu and Co doped ZnO nanoparticles, Environmental Application: Organic pollutant degradation **15 :30** **15 :40**
Ahmed BOUSSAHA Experimental study of metal can seaming	**Djehad bentarfa** Removal of phenol and methylene blue from water using activated carbon prepared from date palm fibers	**FODIL CHERIF NAWAL** Synthesis and characterization of nano-layered double hydroxides for storage and release of therapeutic species **15 :45** **15 :55**

Jamila Naima NAIT ABDALLAH Chlorophyll extraction from stinging nettle leaves and its intercalation into biocompatible anionic clays: A biotechnological approach	**AMINA BEN BEY** Degradation of Congo Red Dye by Sand Filtration	**Reguia BELKOFSI** Hydrothermal synthesis of (Ni60Co40)100-x Fex nanostructured: structure, microstructure and hyperfine properties	**16 :00** **16 :10**
Faiza MERICHE Synthesis of lanthanum manganite and investigation of the structural, electrical and magnetic properties	**Rouibah Karima** Adsorption of hexavalent chromium onto crude olive stones: Kinetic and Equilibrium isotherm studies	**Oussama Bacha** Preparation of High-Quality Cu2O Thin Films by A Simple One-Step Electrodeposition Method	**16 :15** **16 :25**
Zine El Abidine Benarima Simulation and optimization of treatment of gas Hassi-R'mel Algeria using Aspen HYSYS	**Zahia Ayat** First Principle Study on Structural, electronic, and thermodynamic properties of a rare earth dihydride HoH2: A Comprehensive Analysis		**16 :30** **16 :40**
Coffee Break			**16.45**
Poster session II			**17.30**

Poster session I

Topic I: Materials Science and Characterisation

Session Chair
Prof. Zoukel Abdelhalim, Univ. Laghout (Algeria)
Dr. Bekkar Belgacem, Univ. Ghardaia (Algeria)
Dr. Sebaa Hadj Yahia, Univ. Ghardaia (Algeria)

N°	participants	Title	Start discussion
p 1. 1	OULAD SAAD Sofiane	Characterization of boride layers formed on c35 steel	**11.00** **11.30**
p 1. 2	Louifi sarah	Inhomogenous Dynamical Mean-Field Theory of a Josephson junction based on the MgB2superconductor	
p 1. 3	BENHABIB Bensalah	Effects boriding and nitriding treatments on hardness and corrosion behavior of low alloy steel	
p 1. 4	AMIROUCHE Leila	Study of structural and microstructural properties of spinel ferrites Zn 0.8 M 0.2 Fe 2 O 4 (M=Zn, Ca, Sr and Cu) synthesized by ceramic method	
p 1. 5	BOUAM Abdallah	Contribution to the Thermodynamic and Experimental Analysis of a Vortex Tower Prototype	
p 1. 6	Milles hamza	Evaluation of hot corrosion of Mg2SiO4 ceramic exposed to	

		molten Na2SO4
p 1. 12	Bouras Nacer	First Principles Study of the Structural and Electronic Properties of the Pd-H System
p 1. 13	Taibi Fatna	Study of the structural,elastic, electronic and thermodynamic properties of anti-perovskite Ca3SnO
p 1. 15	Wassila Remache	Solar light enhanced photoactivity of perovskites Ba1-xSrxTiO3 photocatalysts for photodegradation of chemical pollutants
p 1. 20	Mohamed LAHOUAL	Numerical investigation of graded-CIGS based solar cell with defect interface layer
p 1. 21	Aicha DEHANE	The properties of starch biofilm plasticized by glycerol
p 1. 22	Khaled MANSOURI	A Comparative electrochemical study on corrosion inhibition by methoxy methyl triphenylphosphonium chloride in acid media
p 1. 24	Yasmina khane	Polymer Membrane Synthesis and Structural Analysis
p 1. 17	Zine El Abidine Benarima	Study effect pozzolan on blended cement hydration by isothermal analysis

Topic II: Chemistry and Environmental Engineering

Session Chair
Prof. Tabchouche Ahmed, Kasdi Merbah university Ouargla, Algeria
Dr. Bouamer Khaeira, Univ. Ghardaia (Algeria)
Dr. Djehad Bentarfa, Univ. Ghardaia (Algeria)

N°	participants	Title	Start discussion
p 2. 2	Ahmed Bensatal	Anti-lithiasis activity of phenolics acids extracts of Cucurbita moschata	**11.00**
p 2. 3	Safa BAHAZ	Mint Plant Oil Extraction in Diverse Environments: Assessing Bacterial Activity and Oxidative Stability	**11.30**
p 2. 5	Soumia Amina Kabdi	Elimination of phenol in an aqueous medium by two activated carbons prepared from the stems of reeds (CAT) and the roots of reeds (CAR)	
p 2. 6	LOUNAS Oualid	Potentiality and suitability of stabilized drilling cuttings from ZERZAITINE oil site for its recovery in cement based building materials.	
p 2. 12	TAHRAOUI Abdelmalik	Applications of new structures modified by aliphatic amines for water purification	
p 2. 14	Bouziane khadidja	Thechnical studies of third generation of solar cells	
p 2. 15	IbrahimEl-Khalil BOUZIANE	Studies of the fuel cells (PEMFC) behavior with humidity, temperature, and pressure	
p 2. 17	BenAmorMohammed Larbi	Chemical composition and antimicrobial of essential oil from ammodaucus Leucotrichus cosson and durieu (apiaceae) growing in south Algeria	
p 2. 18	TOBCHIMOHAMED BACHIR	The Effect of Adding Crushed Sand on the Capillary Absorption of Concrete.	

p 2. 24	Selma Benbitour	Adsorption of cadmium from waste water using activated carbon developed from date stone
p 2. 25	Messaouda matallah	Modelling of nonlinear isotherm for uptake Pb(II) ions from aqueous solutions using lignocellulosic biomass : Equilibrium and optimization studies
p 2. 26	Bensafiddine Feriha	High Antioxidant Capacities and Anti-inflammatory Effects of Hammada elegans Botsch. Extracts: An in vitro Assessment

Topic III: Synthesis, Characterization and application of Nanomaterials

Session Chair
Prof Zerrouki Djamal, Kasdi Merbah university Ouargla, Algeria
Dr. Babaarbi Ilyes, Univ. Ghardaia (Algeria)
Dr. Adamou Youcef, Univ. Ghardaia (Algeria)

N°	participants	Title	Start discussion
p 3. 1	Beriache M'hamed	Experimental setup and data collection of an automotive car radiator using nanofluid as a coolant	**11.00** **11.30**
p 3. 4	MOSBAHCharaf Abdelkarim	Mitigating Busbar Hot-Spots in Electrical Substations through Enhanced Electric Contact Grease with Nanomaterials	
p 3. 5	mohammed said nedjimi	Green Synthesis, Eco-Friendly, and Characterization of Zinc Oxide Nanoparticles Using the aqueous extract of (Citrullus colocynthis) leaves	

Poster session II

Topic I: Materials Science and Characterization

Session Chair
Prof. Zoukel Abdelhalim, Univ. Ghardaia (Algeria)
Dr. Bekkar Belgacem, Univ. Ghardaia (Algeria)
Dr. Sebaa Hadj Yahia, Univ. Ghardaia (Algeria)

N°	participants	Title	Start discussion
p 1. 7	wahiba chaibi	Synthesis and Characterization of N, N dimethylacrylamide/Acrylic Acid and N,N bisacrylamide Crosslinked Hydrogels for efficient adsorption of Methylen Blue	**16.45** **17.30**
p 1. 8	Belaghit abdelhakem	A numerical study on the flow of blood in a Healthy Aorta and Aorta with stent during the cardiac cycle	
p 1. 9	MAIZ HADJ AHMED Hamza	Exploration of GaN-BN alloys by evolutionary algorithm coupled with density functional theory	
p 1. 10	BOUCHAREB Hasna	Hydrothermal synthesis and characterization of nanostructured CdSe: Effect of annealing treatment	
p 1. 11	MESSAOUDI Hassiba	Reactivity of ZnO material in Biginelli Synthesis	

p 1. 14	Biteur kada	UWB Device with Code Access Method for New Generations of Wireless Communications
p 1. 16	Zoulikha Hafsi	Physico-Mechanical and Antibacterial Properties in Composite Thin Films of Modified Poly(Ethylene Adipate) Incorporating Zinc Oxide Nanoparticles
p 1. 17	Hamed Boukhari	Synthesis of magnesium oxide nanoparticles using orange peel extract by the sol-gel method
p 1. 18	Bachir Bensalah	Spectral, and microscopic characterization of acid and rennet camel milk casein: a comparative study
p 1. 23	Djeffal Rachid	The ideal and sensitive role of incorporating phase change materials (PCMs) to improve the thermal efficiency of buildings
p 1. 17	Zine El Abidine Benarima	Experimental Study to Improve the Solar Desalination Performance Using Nanofluids
p 1. 24	Bendaoui Messaoud	Study of the toughness of the notched weld joint in an X70 steel plate through tensile testing
p 1. 25	Zineb Hadj amar	Lead based thermal stabilizers performance during thermal aging of rigid PVC

Topic II: Chemistry and Environmental Engineering

Session Chair
Prof. Tabchouche Ahmed, Kasdi Merbah university Ouargla, Algeria
Dr. Bouamer Khaeira, Univ. Ghardaia (Algeria)
Dr. Djehad Bentarfa, Univ. Ghardaia (Algeria)

N°	participants	Title	Start discussion
p 2. 4	Hamrani Ouiza	Synthesis, Characterization and Biological Applications of Pd(II)- Drug Based Complex	**16.45**
p 2. 7	Amina Lyria Deghal Cheridi	Parametric study of the performances of a vortex tower intended for clean energy production	**17.30**
p 2. 8	DADDA Amel	Environment preservation against radioactive releases during severe accident of nuclear reactor	
p 2. 9	Haddad habiba	Investegation of Physical and Chemical Properties of Groundwater of Algeirs Area.	
p 2. 10	BENREJDAL Fazia	Evaluating the Quality of Stormwater in Urban Regions of Algiers. Physico-Chemical Study	
p 2. 11	BOUAMER Kheira	Softening hard water using sodium hydroxide	
p 2. 13	DEBBAH Karima	Removal of paracetamol from water using an adsorbent derived from synthesized hydrotalcites	
p 2. 16	Imane Raache	Preparation and characterization of activated carbon from local TEMJOUHERT date seeds, from the Ghardaïa region. : an application in treatment of wastewater loaded with organic pollutants	
p 2. 19	Neghmouche Nacer Salah	Preparation of cellulose acetate from palm pollen sheath by chemical treatment	
p 2. 20	BENNABI Farid	Study of the Antioxidant Activity of Mentha suaveolens Plant	
p 2. 21	Zohra BABA AMER	Adsorption capacity of activated carbon prepared from biomass by chemical activation	

p 2. 22	Samira AICHOUR	Pharmacological properties of the extracts prepared from the medicinal plant Rhamnus alaternus L.
p 2. 23	Wassila Benchadi	Chemodiversity and biological activites of plant of the Fabaceae family
p 2. 24	Hadj Daoud Bouras	Highly effective breakdown of clofibric acid through a process of heterogeneous photocatalytic oxidation.

Topic III: Synthesis, Characterization and application of Nanomaterials

Session Chair
Pr Zerrouki Djamal, Kasdi Merbah university Ouargla, Algeria
Dr. Babaarbi Ilyes, Univ. Ghardaia (Algeria)
Dr. Adamou Youcef, Univ. Ghardaia (Algeria)

N°	participants	Title	Start discussion
p 3. 2	Kesbi Brahim	Silver nanoparticle treatment as approaches to increasing the salt tolerance of wheat	**16.45**
p 3. 3	Chikhaoui Imane	Development, characterization and application of CeO_2-x%LiF composites	**17.30**
p 3. 7	Khane Yasmina	Green Synthesis of Silver Nanoparticles Using Plant Leaf Extract: Characterization and Assessment of Antioxidant and Antimicrobial Properties	
p 3. 8	Djaber Aouf	Facile preparation and characterization of nanostructured ZnS/PbS heterojunction thin films photocatalytic degradation.	

Virtual Program

Conference Day 1 : November 28, 2023

Oral Session

Room 1
Topic I: Materials Science and Characterisation

Session I

Session Chair
Dr. Zoulikha Hafsi **Dr. Iman Raache**

Presentation Link: Link1.1
https://meet.google.com/ohz-zzbb-aeb

N°	participants	Title	Start discussion
O 1. 1	Benatmane saadiya	Structural, elastic, and magnetic properties of ABX3 perovskites : AB initio exploration	**09.00**
O 1. 2	Hocine NEBAIR	Grain Boundary Characterization of Ferromagnetic Materials using Magnetic Measurements	**12.00**

O 1. 3	KAOUTAR BABOURI	Analysis of Hot Workability via Processing Maps Construction: Validation on nickel niobium alloys
O 1. 4	Moussaoui Ouidad	The effects of total and transport elastic cross sections on the slow beam electron transport study impinging in the solid targets: Monte Carlo calculation
O 1. 5	Imane zaamouchi	Characterization and electrochemical properties of zinc isophthalate (Zn-MOF)
O 1. 6	Mohammed El-Amine Beyour	Characterization of the Electrical Performance of 4H-SiC Schottky Barrier Diodes Using Artificial Neural Network (ANN)
O 1. 7	Fatih Denbri	Electrical transport properties of lanthanum calcium manganite above metal–insulator transition temperature
O 1. 8	Marwa Haouam	Structural, electronic, elastic and optical properties of perovskite compound for optoelectronic applications
O 1. 9	DRA Rafik El Arslene	Synthesis, Structural and Electrical Characterisation of Pyrochlore-Type Solid Solution Series for Application in SOFC Fuel Cells.
O 1. 10	Daoudi Youcef	Half-metallicity throughout a theoretical investigation of V/Cr/Mn/B/C/N-doped CaTe-based DMS
O 1. 11	BIBIMOUNE Imene	Unveiling the crystallographic texture in immiscible composite CuCr alloy after severe plastic deformation and annealing
O 1. 12	Saber Ziari	Finite element method to investigate the free vibration of a square plate made of functionally graded material
O 1. 13	Nassima KHIMA	Influence of acidic pH on the proprieties of TiO2 thin films.
O 1. 14	KADDECHE Chems El Acil	Electrodeposition of thin films of ZnO by potentiostatic electrolysis
O 1. 15	Baraka Oussama	First-principles study of half-metallic properties in CrAgSi half Heusler alloy

Session II

Session Chair

Prof. Zegaoui Abdallah Dr. Zineb Hadj amar Dr. Rachid Djeffal

Presentation Link: Link1.2
https://meet.google.com/gvr-zezu-bpg

N°	participants	Title	Start discussion
O 1. 16	SEGHIRI Salah Eddine	Morphology Control using phase-field Modeling and Simulation :Application to organic solar cells	**13.30** **15.30**
O 1. 17	MEKERSI Romaissa	Elaboration and characterization of the perovskite KNbO3. Application for photocatalytic H2-production under visible light over KNbO3/K2NiF4 hetero-system.	
O 1. 18	ABDELDJEBAR Hasnia	Computational study of a new copolymer for semiconductor applications.	
O 1. 19	BAIT ZAHIR	Observation and analyse the impact of Surface Donor-Like Traps on AlGaN/GaN HEMT Performance: A TCAD Simulation Study	

O 1. 20	SIAHMED Fatiha	ELABORATION, CHARACTERIZATION OF BIOCOMPOSITE MATERIAL: LUFFA CYLINDRICA/EPOXY
O 1. 21	BELLAHCENE Fatima Zohra Zoulikha	Theoretical Investigation of the structural , electronic, and optical proprieties of ThO2 and HfO2 materials.
O 1. 22	FATIMA Nemla	On the fundamental mechanical behavior under hydrostatic pressure of CaXO3 (X= Sn and Hf) distorted perovskites from ideality: Computational Ab initio study.

Session III

Session Chair
Dr. Zineb Hadj amar Dr. Djehad Bentarfa Dr. Zebiri Ikram

Presentation Link: Link1.3
https://meet.google.com/ohz-zzbb-aeb

N°	participants	Title	Start discussion
c	Hernoune Houria	Masonry Shear Triplets Coated with Mortars reinforced with Polypropylene Fibers	**13.30**
O 1. 24	MERZOUGUI Moufida	Design of a novel catalytic system for eco-friendly olefin epoxidation	**15.30**
O 1. 25	Nadjette Belhamra	Structural and optical properties of Co_3O_4:Zn thin films prepared by pneumatic spray	
O 1. 26	HADJ MOHAMED BOUCHKARA Najla	Experimental and Numerical Analyses of the Effects of Overload on the Fatigue Life of Aluminum Alloy Panels Repaired with Bonded Composite Patch	
O 1. 27	bakhtatou ali	Theoretical Design of a new lateral heterostructure (α-PbO)/(α-SnO)	
O 1. 28	BAKA Ouidad	Electrochemical Deposition and Characterization of a Transparent Nio Thin Films for Optoelectronic Devices	
O 1. 29	Haddad Noureddine	Effect of aging mechanisms and shock testing on the mechanical properties of HDPE 100	

Room 2
Topic II: Chemistry and Environmental Engineering

Session I

Session Chair
Dr. Hadj daoud bouras Dr. Mohammed aouf Dr. Wassila benchadi

Presentation Link: Link2
https://meet.google.com/mpz-zczq-snx

N°	participants	Title	Start discussion
O 2. 1	DEKAR Souad	Oxidovanadium (IV) complex incorporating based ONO ligand: Synthesis, electrochimical and catalytic activities	**09.00**
O 2. 2	Zekri Afaf	Molecular docking of a series of 3-(pyrazin-2-yl)-1H-indazoles as pan-Pim kinase inhibitors	**12.00**
O 2. 3	Hadj aissa Romaissa	Thermodynamics and isotherms studies for the biosorption of	

		orange methyl in aqueous solution by local biomaterial
O 2. 4	Chelil Naouel	An Investigation of the Optoelectronic and Ferroelectric properties of Ag2Se for photoelectrochemical solar cells
O 2. 5	Fadoua Nihad Chergui	Effect of catalyst concentration and equilibrium time on a pharmaceutical removal by Fenton oxidation in aqueous solution.
O 2. 6	CHEBBI Meriem	Effect of pyrolysis temperature on biochar's characteristics as an adsorbent for the removal of metronidazole
O 2. 7	Fatiha Benmahdi	Modeling and optimization of Cr(VI) removal from water using activate charbon derived from silver berry seeds employing CCD approach
O 2. 8	Kara Racha	Zirconium modified biochar for the effective removal of phosphate from water environment
O 2. 9	OUAKKAF Amira	Adsorption capacity of activated carbon prepared from biomass by chemical activation
O 2. 10	BRIKI Lyamine	Contribution of chicken egg shell waste to the manufacture of cement
O 2. 11	Nassim SAYOUD	Synthesis of cello-oligosaccharides and alkyl glycosides by depolymerisation of cellulose
O 2. 12	Abdennour Bouchair	"Development of a New Nanomaterial for Enhanced Congo red Adsorption"
O 2. 13	TILIOUINE Yousra	Removel of cationic dye (Yellow Bezacryl) from aqueous solution by an agricultural waste
O 2. 14	AOUAICHIA Ikram	Evaluation of Juniperus Phoenicea Essential Oil against a Species of Mosquito Culiseta Longiareolata: Larvicidal Activity, Energy Reserves
O 2. 15	Leila YOUCEF	Efficient use of activated carbons based on local agricultural residues to remove copper from water by adsorption

Session II

Session Chair
Dr. Mohammed aouf **Dr. Hadj daoud bouras**

Presentation Link: Link2.2
https://meet.google.com/mpz-zczq-snx

N°	participants	Title	Start discussion
O 2. 16	RABHI Fadhila	Carboxylic acid-based Deep Eutectic Solvent: Towards Greener and Efficient Extraction"	**13.30** **15.30**
O 2. 17	Aicha METALI	Evaluation of the heavy metal content in sludge from the paint industry	
O 2. 18	Taha Abdullah	Investigation on Effect of Zizyphus Spina-Christi on The corrosion Inhibition of Medium Steel in Hydrochloric Acid Solution	
O 2. 19	MEKIDICHE Mounir	Copper-Peptide Modified Hybrid Catalyst for Efficient Congo Red Dye Degradation	
O 2. 20	BOUDOUMI	Adsorption Process for Hospital Effluent Treatment:	

	Barkahoum	Evaluating DCO and UV Absorbance Parameters
O 2. 21	Benhachem Fatima Zahra	Application of new clay material for the adsorption of bemacide dye from aqueous solutions
O 2. 22	Kolli Mounira	Etude de l'élimination du paracetamol par un charbon actif synthétisé á partir des noyaux jujube

Room 3
Topic III: Synthesis, Characterization and application of Nanomaterials

Session I

Session Chair
Dr. Fenniche Fares Melle. Bahaz Safaa

Presentation Link: Link3
https://meet.google.com/aer-yyfu-baj

N°	participants	Title	Start discussion
O 3. 1	Mohamed Bilal GOUDJIL	Biosynthesis and characterization of novel nanocomposite CuO/Fe2O3 efficiency for high-speed adsorption of AZO dye	**09.00 12.00**
O 3. 2	AMROUNE Amina	Numerical study of natural convection in a horizontal ring between a cold elliptical outer cylinder and a heated square inner cylinder filled with nanofluid	
O 3. 3	Zoubir BENKHANOUCHE	Adsorption of transition metal atoms on armchair carbon nanoribbons: influence on electronic and structural properties	
O 3. 4	Lakhdar Sek	Theoretical Study of Graphene in Deformed Space“	
O 3. 5	KHIATI Zoulikha	Influence of treatment with modified fillers applied to nanocomposite polyurethane"	
O 3. 6	BENAOULA Sid Ahmed	Removal of Congo red dye from an aqueous solution using zinc oxide nanoparticles synthesized from argan tree seed pericarps: a green approach	
O 3. 7	Oughilas Ahmed	Biosynthesis of zinc oxide nanoparticles from aqueous extract of argan tree seed pericarps and evaluation of their antibacterial activity	
O 3. 8	DAIKH ZINE EDDINE	synthesis of nanomaterials for the depollution of water laden with dyes	
O 3. 10	BENAMAR Aicha	Effect of the ZSM-5/MCM-41 weight ratio in the support of 50% Ni-catalysts on the hydrogen production via methane decomposition“	

Session II

Session Chair
Dr. Fenniche fares Dr. Azzaoui Mohamed

Presentation Link: Link3.2
https://meet.google.com/aer-yyfu-baj

N°	participants	Title	Start discussion
O 3. 11	Hadjira RAFAI	Morphology of mechanically alloyed nickel-based materials	**13.30**

		analyzed by Evaluation Comparison Between Image Segmentation and Image J	**15.30**
O 3. 12	MERINE Haouaria	Valsartan/β-cyclodextrin complex included in ethylcellulose-based matrix microspheres and the Controlled Release of these new solid dispersion	
O 3. 13	wissam bouchal	"Tailoring of BaBiO3 Perovskite on Photocatalytic, and Antioxidant Activities."	
O 3. 14	AMROUNE Amina	Numerical study of natural convection in a horizontal ring between a cold elliptical outer cylinder and a heated square inner cylinder filled with nanofluid	
O 3. 15	Abouelkacem SAHRAOUI	DEGRADATION OF ORANGE G USING GREEN SYNTHESIZED TiO2 NANO-MATERIALS	
O 3. 16	Fares Fenniche	Detection of lead concentrations by electrochemical nanocomposite sensor	

Poster Session

Room 1
Topic I: Materials Science and Characterisation

Session I

Session Chair
Dr FAKHAR Bahmed Dr Belghite hakim

Presentation Link: Link4.1
https://meet.google.com/avd-imtc-dnx

N°	participants	Title	Start discussion
p 1. 1	BENAMEUR Khedidja	Elaboration and characterization of Ni1-xCuxO thin films for photocatalytic applications	**09.00**
p 1. 2.1	BACHIR BEY Imene	Characterizing Damage Progression and Fatigue Behavior of Glass/Copper/Epoxy Multifunctional Composites	**12.00**
p 1. 2.2	BACHIR BEY Imene	Impact Fatigue-Induced Damage Analysis in Multifunctional Composite Structures with Embedded Copper	
p 1. 3	Nora OUAFEK	Simulation of X-ray Emission From ZnO Thin Film	
p 1. 4	TURKI bilal	Quaternary Heusler Alloys	
p 1. 5	KOUHLANE YACINE	Understanding the synthesis, characterization, and optimization of CIGS thin films for photovoltaic applications.	
p 1. 6	Mousaab BELARBI	Numerical Analysis of Graphene-Enhanced Performance in Solid-State Dye-Sensitized Solar Cells	
p 1. 7	Belfilali Imane	Synthesis and Characterization of Novel Copper(II) Complexes with Imidazole-Derived Ligands: Elaboration and Material Characterization	
p 1. 8	LAKHDARI Amani Sabrine	Effect of electron radiation on polymers in spintronic applications	
p 1. 9	CHAOUI Khawla	Tuning the electronic and optical properties of Two-dimensional SnSe2 by biaxial strain for optoelectronic applications.	

p 1. 1 0	KOUIDRI Djamila	Comparative Study of Natural Fibers for Composite Materials
p 1. 1 1	Zaabat Amina	Study of Al and Sb co-doped ZnO thin films
p 1. 1 2	KHIRENNAS Messaoud	Contribution to Taylor-Couette flow control using a heated and radially pulsated inner cylindre
p 1. 1 3	BACHIRBEY Mohamed Nabil	Analyzing Tribological Characteristics with Changing Surface Conditions and Sliding Speed
p 1. 1 4	HADIOUCHE Dalila	Enhancing Optical Characteristics of High Chiral Planar Waveguides Fabricated via Sol-Gel Technique
p 1. 1 5	Hassan GUENDOUZ	Silver Implantation in YBaCuO Superconductor Surface

Session II

Session Chair
Dr. Zoulikha Hafsi **Dr. Iman Raache**

Presentation Link: Link4.1.1
https://meet.google.com/avd-imtc-dnx

N°	participants	Title	Start discussion
p 1. 1 6	Soufyane Belhachi	Unveiling Enhanced Optical and Magnetic Properties through Rare Earth Doping in AlGaN Materials: A First-Principles Study	**13.30 15.30**
p 1. 1 7	HADBI Mohammed	Investigating the Structural, Elastic, and Electronic Characteristics of Ternary Intermetallic Half-Heusler Compounds TiIrX (X= As, Sb) with 18 Valence Electrons	
p 1. 1 8	Oussama Smaal	The Effect of Temperature on the Mechanical Performance of Bio-composite Materials (Date Palm Fibers/Epoxy)	
p 1. 1 9	hammadi mohamed	First-principles study of mechanical and thermodynamic properties of intermetallic Cu_3Sn	
p 1. 20	Bouchenafa Halima	Electronic structure, Elastic, Mechanical, and Magnetic Properties of Pd2TiZ (Z = Sn, In) Full-Heusler Alloys: A Density Functional Theory Study	
p 1. 21	Fares Asma	The effect of low temperatures on the purity of synthetic wollastonite prepared from chicken eggshell and SiO2 by a solid-state reaction.	
p 1. 22	fidjah abdelkader	The effect of silica concentration on the microstructure of clay compounds	

Session III

Session Chair
Dr FAKHAR Bahmed **Dr Belghite hakim**

Presentation Link: Link4.2
https://meet.google.com/urz-ahdv-fxq

N°	participants	Title	Start discussion
p 1. 23	Boussaha Imene	Study of the thermal behaviour of local clays for use the ceramic glaze industry	**13.30**

p 1. 24	Bouhenna Abdessalem	Contribution of Perovskite Matériels for Field Fffect Trensistor Application	**15.30**
p 1. 25	Youcef Hadj ali	The Effect Of Three Passes Of Ecap On The Microhardness And Corrosion Of An Aa1370 Aluminum Wire	
p 1. 26	Mohamed Walid HALIMI	Study of of Fe15Co85 Nanopowder Alloy Using Mössbauer Spectroscopy	
p 1. 27	Djazia BENDEDDOUCHE	Structural and Thermophysical analysis of poly (isobornyl acrylate) and their copolymers with poly (2-ethylhexyl acrylate)	
p 1. 28	Kouddad elhachemi	A new design of an optical electric field sensor based on nonlinear photonic crystals	
p 1. 29	Aicha Khemissi	Density functional theory based tight binding method study on the zigzag boron nitride lines in armchair Carbon nanotube	

Room 2
Topic II: Chemistry and Environmental Engineering

Session I

Session Chair
Dr. Zine El Abidine Benarima Dr. Matallah Messaouda

Presentation Link: Link5
https://meet.google.com/uij-yxai-xza

N°	participants	Title	Start discussion
p 2. 1	Palahouane baya	Application Of Electro-Fenton Process For Treatment Of Photovoltaic Effluents	**09.00** **12.00**
p 2. 2	Sellam Badreddine	A comparative study of Fenton-like (Fe(III)/CaO_2) and photo-Fenton-like (Fe(III)/CaO_2/UV) processes for the removal of metobromuron in aqueous medium	
p 2. 3	Belhadj nadia	Séparation of cobalt (II)-nickel(II) from sulphate medium using PrimenJMT-versatic10 IL	
p 2. 4	BOUZERIBA Hadjer	Impact study of the different parameters on the environment of El-Ouenza iron mine Analysis of dust, drinking water, effluents and noise measurement	
p 2. 5	Belaid Taous	Adsorption of Copper (II) by composite beads(Alginate/Egg shell)	
p 2. 6	KERNANI Ridha	Enhancing Biofuel Production: Enzymatic Hydrolysis of Lignocellulosic biomass for Efficient Sugar Release and Ethanol Fermentation	
p 2. 7	Cheraitia Houda, Toukal linda , Maouche Naima	Effect of a thiosemicarbazone derivative on the corrosion of mild steel in 1.0M HCl	
p 2. 8	kharchi nadia	Development of nanocomposites using renewable resources (polypropylene) in an effort to preserve the environment	

Session II

Session Chair
Dr. Adamou youcef Dr. Babaarbi Ilyes Dr. Zine El Abidine Benarima

Presentation Link: Link5.2
https://meet.google.com/uij-yxai-xza

N°	participants	Title	Start discussion
p 2. 9	MOUANNI Sihem	Study of medicated residue degradation. Effect of irradiation mode	**13.30**
p 2. 10	Faiza Chouli	Carbon waste Material for Removing Dyes : Kenetic and Thermodynamic Study	**15.30**
p 2. 11	Zitani Brahim	Environmental solution of treatment oil-based drilling waste using thermal desorption method (energy balance)	
p 2. 12	AZIEZ Mohammed Nadjib,	Exploring the influence of calcined bentonite and limestone filler on mortar properties: A sustainable approach to reduce CO2 emissions in cement production	
p 2. 13	Abdennour Serradj	Development of new nanostructured copper oxide (CuO) films on a copper foil for a fuel cell	

Room 3
Topic III: Synthesis, Characterization and application of Nanomaterials

Session I

Session Chair
Dr. Djaber Aouf Dr. Kesbi ibrahim

Presentation Link: Link6
https://meet.google.com/dtj-edoc-hnm

N°	participants	Title	Start discussion
p 3. 1	Hacini Khedidja	Magnetic field effect analysis on SWBNNT integrated in an elastic medium via NSDT"nonlocal shear deformation theory"	**09.00** **12.00**
p 3. 2	Mayouf Fateh	Carbon paste electrodes modified with iron oxide and titanium oxide as advanced materials; characterization and application	
p 3. 3	Bounedjar Nourelhouda	New Eco-friendly Cold Plasma Synthesis of Zinc Oxide nanoparticles and Characterization and anti-corrosion application	
p 3. 4	Abid Imene	Influence of Deposition Parametrers for Cu_2O thin films by Electrodeposition Technique.	
p 3. 5	Hamla meriem	Synthesis and characterization off a Schiff based oxovanadium complex: study in a corrosive environment	
p 3. 6	BENKHIRA LATRA	Evaluation of the antibacterial activity of ZnO nanoparticle prepared by cold plasma	
p 3. 7	soumaia chihi	Evaluation of the antibacterial activity of iron oxide nanoparticles synthesis by the aqueous extract of Moltkia ciliata	

p 3. 8	Ghania DEKKICHE	Investigation of Sonochemical Synthesis and Characterization of Nickel Oxide in 1,2-(Propanediol)-3-Methylimidazolium Hydrogen Sulfate Ionic Liquid.
p 3. 9	Elaid OUADAH	Elaboration and characterization of WO3:Sn(1%) thin films of heat treated at 400 °C for 4 hours
p 3. 10	Bouchenak Meriem	Elaboration and characterization of zinc ferrite nanoparticles $ZnFe_2O_4$ synthesized by a simple precipitation method: application in the photocatalytic degradation of green malachite dye under sunlight irradiation
p 3. 11	Massillia AIT RADI	Preparation and Characterization of novel hybride semiconducting nanocomposite

Session II

Session Chair
Dr. Djaber Aouf **Dr. Kesbi ibrahim**

Presentation Link: Link6.2
https://meet.google.com/dtj-edoc-hnm

N°	participants	Title	Start discussion
p 3. 12	Hamza Chetioui	Preparation and characterization of nanostructured ZnO thin films: the effect of zinc source	**13.30** **15.50**
p 3. 13	BENATALLAH Mohammed Farouk	Structural, optical and dielectric properties of nickel oxide thin films synthesized via nebulized spray pyrolysis process	
p 3. 14	Aouadj ikram	Eco friendly synthesis of nanoparticles using Agro waste and their characterization	
p 3. 15	MOUATTAH Dalila	Bi_12GeO_20 nanoparticles: A New Hydrothermal Synthesis route, Characterization, and Growth Mechanisms.	
p 3. 16	Ouardia SEBBAH	Synthesis and Characterisation of Zinc Oxide Nanoparticles and Study of their Biological Study after Formulation	
p 3. 17	Slyemi samira	Synthesis of Zn-Fe nanomaterials via hydrothermal route. Characterization and application in Biginelli reaction	
p 3. 18	HAFSA Haroun	Removal of a pharmaceutical pollutant by simple heterosystem TiO_2/MO NPs	

Conference Day 2 : November 29, 2023

Oral Session

Room 1
Topic I: Materials Science and Characterisation

Session Chair
Dr Chaibi Wahiba **Dr. Zine El Abidine Benarima**

Presentation Link: Link1
https://meet.google.com/wmp-hxht-nrm

N°	participants	Title	Start discussion

O 1. 30	NOUASRIA Fatima Zohra	Copper doped zinc oxide thin films as n-type layer for solar cell applications	**14.30 16.00**
O 1. 31	AMIRA.Sbaihi	"Investigation of structural and optical properties of spray pyrolyzed NiS thin films prepared by spray pyrolysis technique	
O 1. 32	herihiri ouided	Development of Durable Expanded Polystyrene Concrete with Enhanced Mechanical Properties	
O 1. 33	Hanane Bouden	Physical and optical properties of EU^{+3} Antimony lead glasses	
O 1. 34	Alaounia Nadjette	Photocatalytic efficiency evaluation of titanium dioxide toward methyl orange dye in aqueous medium	

Room 2
Topic II: Chemistry and Environmental Engineering

Session Chair
Dr Daoud Mounir **Dr. Bensalah Bachir**

Presentation Link: Link2
https://meet.google.com/sph-izjx-wix

N°	participants	Title	Start discussion
O 2. 23	Amina Missoum	METHOD VALIDATION FOR THE ANALYSIS OF METRONIDAZOLE DRUG USING RP-HPLC.	**14.30 16.00**
O 2. 24	BENAISSA Amina	Heavy Metals Pollution and Ecological Risk of Dentistry	
O 2. 25	DJELLOUDI Thiziri	Kinetic study of the photocatalytic degradation of Metronidazole under solar irradiation	
O 2. 26	BENAKCHA MANSOURA	Application of irrigation indices to assess water quality in Oued Djeddi in the Biskra basin (south-east Algeria)	
O 2. 27	Guergazi Saadia	Removal of azo dye Naphtol Bleu Black by adsorption on two clays	
O 2. 28	AZOUG Sylia	Removal of the cationic dye « methylene blue » by adsorption on a mesoporous material	
O 2. 29	Nedjla Debabeche	Water Absorption Effects on Date Palm Fiber Reinforced Polyvinyl Chloride Composites	

Room 3
Topic III: Synthesis, Characterization and application of Nanomaterials

Session Chair
Dr. Mohammed aouf **Dr. Azzaoui Mohamed**

Presentation Link: Link3
https://meet.google.com/ojc-boqx-zjb

N°	participants	Title	Start discussion
O 3. 17	Ghania RADJI	Selective and competitive adsorption of textile dyes in a mixture of dyes on a hydrotalcite-type material and its mixed oxide	**14.30 16.00**

O 3. 18	Hassan GUENDOUZ	Polymethylmethacrylate Irradiation With Copper Ions
O 3. 19	BOUGHEDAOUI Rachid	Elaboration and Characterization Of Nd-Fe-B Nanocomposites powder particles prepared by Mechanical alloying
O 3. 20	HAMOUS Hanene	Application of Textile electrodes coated with RGO and Pt nanoparticles in treatment wastewater
O 3. 21	faghi lotfi	Synthesis and characterization of polymer nanocomposites containing Fe53%Si28%B19% powder particles prepared by high energy ball mill

Poster Session

Room 1
Topic I: Materials Science and Characterisation

Session Chair
Dr. Bekkar Belgacem Dr. Sebaa Hadj Yahia Dr. Zebiri Ikram

Presentation Link: Link4
https://meet.google.com/ziy-ttpf-wvq

N°	participants	Title	Start discussion
p 1. 30	Ghizlene Fatima Zohra HAKEM	Study of swelling caused by physical cross-linking of linear acrylate-based terpolymers	**14.30**
p 1. 31	ZENASNI Mounya	Polypyrrole doped ZrO2–ZnO electrode materials for supercapacitor applications: Synthesis, characterization and electrochemical studies.	
p 1. 32	DERRARDJIA Nesrine	Petrographic characterization of the phosphate ore from Djebel Onk, Tébessa	**16.00**
p 1. 33	Selmoune Belkacem	The effect of porosity on the stability of a nano-composite beam (FG-CNT) resting on an elastic foundation	
p 1. 34	MESROUK Samir	Facilitated transport of Ni (II) and Co(II) through polymer inclusion membranes with Aliquat 336 as carrier in aqueous solution	
p 1. 35	BOUKHAMLA Yousra	Granulo-chemical characterization of sludge in the treatment chain: a case study of the Djebel Onk mineral processing complex	
p 1. 36	Mekahlia Mahira	Ab-initio calculations of the density of states for t-Se and t-Se containing a defect in the helical chain	

Room 3
Topic III: Synthesis, Characterization and application of Nanomaterials

Session Chair
Dr. Fenniche Fares Dr. Zoulikha Hafsi

Presentation Link: Link5
https://meet.google.com/nwv-acmt-mmp

N°	participants	Title	Start discussion

p 3. 19	Meniche Amel	Green synthesis of silver nanoparticles for active food packaging	**14.30 16.00**
p 3. 20	BADIS Karima	Study of new systems based on poly succinate of butyle as a biodegradable polymer for Drug Delivery of Esomeprazole-Mg.	
p 3. 21	BOUDINAR Naouam	Effect of the milling energy on the production of nanocrystalline Invar alloys	
p 3. 22	CHIKHI SARA	Photocatalysis degradation of a textile organic dye (Methylene blue) using green synthesized TiO2 nanoparticles.	
p 3. 23	BOUZIANE Ghania	Biosynthesis of silver nanoparticles using polysaccharide extract from the seeds of Astragalus gombiformis Pomel (Fabaceae)	
p 3. 24	Beriache M'hamed	Experimental setup and data collection of an automotive car radiator using nanofluid as a coolant	

Conference Day 3 : November 30, 2023

Plenary Session

Open room for every conference speakers and attendees

Presentation Link: Link0
https://meet.google.com/fmx-cocy-zzp

Session Chair

Dr.Touaiti Farid
Ghardaia University
Dr. Bouras Hadj Daoud
Ghardaia University
Dr Nebati Abdelkader
University of Ain-Temouchent
Dr BACHA Oussama
Kasdi Merbah university, Ouargla, Algeria.

Prof. Khan Mohammed Mansoob University of Brunei Darussalam	Photocatalysis: A green approach for sustainable energy and environment	**09 :00 09 .30**
Pr Metref Farid Houari Boumediene University (Algeria)	Thermal Stability and Thermal Degradation Kinetics of Polymers and Their Nanocomposites Based on Bentonite and TiO_2	**09:45 10.15**
Prof Achi Fethi Kasdi Merbah university Ouargla, Algeria	The innovative nanomaterials for electrochemical sensors as analytical tools for clinical and medical applications	**10.25 11.00**

Oral Session

Room 1
Topic I: Materials Science and Characterisation

Session Chair
Dr Nebati Abdelkader Dr Chaibi Wahiba Prof. Fekirini hamida

Presentation Link: Link1
https://meet.google.com/dpk-wqam-tag

N°	participants	Title	Start discussion
O 1. 35	Faiza Sahraoui	Catalytic Oxidation of n-Butanol over Mg4Ce2- 280 HT hydrothalcite based system: Effect of Water Vapor and Volatile Organic Compounds Mixture	**10.30** **12.30**
O 1. 36	Fekkar-Nemmiche Nadia	CONDUCTIVITY MEASUREMENTS AND PHYSICOCHEMICAL CHARACTERIZATION OF ACID FUNCTIONALIZED SBA-15 MESOPOROUS SILICA	
O 1. 37	Sassoui Messaouda	Luminescence of Eu_2O_3 doped glasses based on ontimony	
O 1. 38	Hassan Guendouz	Silver Implantation in YBaCuO Superconductor Surface	
O 1. 39	Meriche Faiza	Synthesis of lanthanum manganite and investigation of the structural, electrical and magnetic properties	

Room 2
Topic II: Chemistry and Environmental Engineering

Session Chair
Dr. Bouamer Khaeira Dr. ADDOUNE Noura Melle. Bahaz Safaa

Presentation Link: Link2
https://meet.google.com/ztp-btjh-opy

N°	participants	Title	Start discussion
O 2. 30	Feddal IMENE	Experimental study and identification of pesticide retention by clay materials	**10.30** **12.30**
O 2. 31	Lebik Hafida	Adsorption of Solophenyl Red 3BL on GAC prepared from an agricultural byproduct	
O 2. 32	Ghouafria Imane	Use of Cytisus Multiflorus Flower Extract as ecological inhibiteur corrosion for carbon steel in acid medium	
O 2. 33	Masouda Farhat Ali	Investigation on Effect of Zizyphus Spina-Christi on The corrosion Inhibition of Mild Steel in Hydrochloric Acid Solution	
O 2. 34	Alaounia Nadjette	Photocatalytic efficiency evaluation of titanium dioxide toward methyl orange dye in aqueous medium	
O 2. 35	Mohammed Alsharif Samba	Avoid Loss of Miscible CO2 Injection by Using Water Alternating Gas (WAG) Injection in X Field	

Room 3
Topic III: Synthesis, Characterization and application of Nanomaterials

Session Chair
Dr. Mohammed aouf Dr. Djehad Bentarfa

Presentation Link: Link3
https://meet.google.com/pns-xite-czo

N°	participants	Title	Start discussion
O 3. 21	faghi lotfi	Synthesis and characterization of polymer nanocomposites containing Fe53%Si28%B19% powder particles prepared by high energy ball mill	**10.30 12.30**
O 3. 22	Ouhabi Abdelhalim	Influence of Doping on the Physical Properties of Zinc Oxide Nanofilms: Comparative Study	
O 3. 23	Djafri Dhiya Elhak	Electrochemical deposition of electrochromic Ni(OH)2 thin films for electrochromic applications	
O 3. 24	Mohammed Aouf	Synthesis, Characterization, and application of Nanomaterials	

Poster Session

Room 1
Topic I: Materials Science and Characterisation

Session Chair
Dr. Iman Raache Dr Leila ZOUAMBI Dr Mohamedi Mohamed walid

Presentation Link: Link4
https://meet.google.com/dqw-dabi-gtg

N°	participants	Title	Start discussion
p 1. 37	Biteur kada	"UWB Device with Code Access Method for New Generations of Wireless Communications"	**10.30 12.30**
p 1. 38	Wassila Remache	Solar light enhanced photoactivity of perovskites Ba1-xSrxTiO3 photocatalysts for photodegradation of chemical pollutants	
p 1. 39	Allouche Nihed	Effect of Cobalt Doping on Nanostructured CuO Thin Films	
p 1. 40	Amirouche Leila	Study of structural and microstructural properties of spinel ferrites Zn 0.8 M 0.2 Fe 2 O 4 (M=Zn, Ca, Sr and Cu) synthesized by ceramic method	
p 1. 41	Guendouz Dif	De novo comparative genomic analysis of Stenotrophomonas sp. strain IS26, a plant growth-promoting rhizobacteria isolated from the inner root tissues of Lygeum spartum L.	

Room 2
Topic II: Chemistry and Environmental Engineering

Session Chair
Dr Bennabi Farid Dr Rahmani Khaled Dr Fakhar Bahmed

Presentation Link: Link5
https://meet.google.com/ivc-ujut-qbj

N°	participants	Title	Start discussion
p 2. 14	Tayebi Abdelmalek	STUDY OF LEAD DIOXIDE-ZINC RECHARGABLE	**10.30**

		BATTERY IN MULTIPLE ELECTROLYTE SYSTEMS	**12.30**
p 2. 15	Zitani Brahim	2-Environmental solution of treatment oil contaminated soil and drilling waste using activated carbon stabilization and Portland cement solidification	
p 2. 16	Fatma Dar Kebira	The use of a mononuclear copper complex in the photodegradation of cationic textile dyes	
p 2. 17	hamza boufenaya	Comparative study between peanut oil biodiesel and rapeseed oil biodiesel: from adrar regions	
p 2. 18	Fakhar Bahmed	Hydrogen production by thermal and thermo-catalytic recycling of polymeric waste	

Room 3
Topic III: Synthesis, Characterization and application of Nanomaterials

Session Chair
Dr. Djaber Aouf Dr. Nouasria Fatima Zohra TAHTAH Reda

Presentation Link: Link6
https://meet.google.com/hoa-ffwa-vrn

N°	participants	Title	Start discussion
p 3. 25	Boulaares Islam	Study of biosynthesis of manganese oxide nanoparticles using *Ocimum basilicum L*. leaves extract and their in-vitro anti-inflammatory potential	**10.30** **12.30**
p 3. 26	Frahtia Ahlem	Evaluation of some biological activities of *Phragmites australis rhizomes* extract and phytosynthesized copper nanoparticles	
p 3. 27	Boulkrinat Amina	Elaboration and caracterization the membranes ceramic prouses	
P 3. 28	Djaber Aouf	Facile preparation and characterization of nanostructured ZnS/PbS heterojunction thin films photocatalytic degradation	
p 3. 29	Hadj Bachir Djaouida	Preparation and characterization of TiO_2 Pillared clay. Application to the Photocatalytic Degradation of Linuron..	

Offer the Certificate of Appreciation for Startup and Brevet Students	**12:30**
Offer recognition and appreciation to the conference speakers and attendees	
Closing remarks	