

Ministry of Higher Education & Scientific Research
University of El Oued / Faculty of Exact Sciences
LEVRIS Laboratory



ICOMRE'22

1st International Conference on Optoelectronics, Materials & Renewable Energy

Honorary Chair

Pr. Omar FERHATI

Rector of University of El Oued

Keynote Speakers:



Pr. Adel MELIT
University of Jijel
Algeria



Pr. Wissem CH.KOUBAA
University of Sfax
Tunisia



Pr. Ferhat REHOUMA
University of El Oued
Algeria



Pr. Radhouane CHTOUROU
CRTE
Tunisia



Pr. Imad Hamadneh
University of Jordan
Jordan



Pr. Mohammed TRAICHE
CDFA
Algeria



Pr. Mosbah ZIDANI
University of Batna2
Algeria

Conference Director

Dr. Mourad MIMOUNI

Member of LEVRIS Laboratory

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Conference Topics

The topics of interest include, but are not limited to, the following:

Optoelectronics:

- Laser and optoelectronics characterization and applications
- Laser Materials
- Integrated optics
- Optical sensors

Materials:

- Nanomaterials: synthesis, characterization and applications.
- Advanced Materials: Ceramics, Inorganic materials, Electronic-Magnetic Materials, Biomaterials.
- Optical and Lasers Materials

Renewable energies:

- Renewable Energy Systems RESs
- Control Techniques for RESs
- Renewable Energy Water Pumping Systems
- Artificial Intelligence and Machine Learning Studies for RESs and Applications
- New Trends and Technologies for RESs

Scope:

The 1st International Conference on Optoelectronics, Materials and Renewable energy 2022 (ICOMRE'22) will be held in, El Oued, Algeria from 12 to 13 Dec. 2022. The conference is organized by the Laboratory for the Exploitation and Valorization of Saharan Energy Resources LEVRIS, Algeria. The main aim of the ICOMRE'22 is to bring together all potential participants: from industry, experts, researchers, academics, manufacturers and suppliers of several countries to review the latest developments that are achieved in these areas and to exchange research ideas to explore current challenges in Optoelectronic.

Scientific Committee:

President : Pr. Ferhat REHOUMA,

Co-President: Dr. Said MEHELLOU

International members

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Akram ALHUSSEIN, France
Anani Kumar VERMA, India
Azeddine HOUARI, France
Fadwa ODEH, Jordan
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Muna ABU-DALO, Jordan
Nacer DEBBAR, Saudi Arabia

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Abderrahim ACHOUJRI, Ouargla
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Adel BENARFA, CRAPC-Laghouat
Ali DJERIOUJ, M'sila
Ammar MOSBAH, Sétif
Aziz BOUKADOUJ, Tebessa
Azeddine BEGGAS, El Oued
Boubaker Benhaoua, El Oued
Dhaouadi GUIZA, Tebessa
El Habib Guedda, El Oued
Djalil DIB, Tebessa
Djamel OUNNAS, Tebessa
Djamila REKIOUA, Bejaia
Fayçal CHEMAM, Tebessa
Fayçal DJANI, Biskra

Fethi BOURAS, El Oued
Fethi KHELFAOUI, Ouargla
Ghedamsi KACI, Bejaia
hakim BAAZIZ, M'sila
Hakim BELKHALFA, Ouargla
Hichem MERABET, Algiers
Kamel Edgine Aïadi, Ouargla
Kamel Saoudi, Bouira
Karima BELAKROUM, Ouargla
Khouloud BEDOUD, Algiers
Lazhar BECHKI, Ouargla
Linda AISSANI, Khenchela
Mamoun FELLAH, Khenchela
Mebrouk GHOUALI, El Oued
Mohammed MENAA, Algiers
Mohammed SAIDIA, Souk Ahras
Mohammed YOUSFI, Laghouat
Mohammed TRAICHE, Algiers
Mohammed Sadok MAHBOUB, El Oued
Mustafa MOSBAH, Laghouat

Nabil MAHAMDIQUA, Jijel
Nadjel Ben CHIHEUB, Bordj Bou Arreridj
Naouel HEZIL, Khenchela
Omar BENTOUILA, Ouargla
Ried TOUFOUTI, Souk Ahras
Ridha AHMEDJ, El Oued
Mosbah ZIDANI, Batna
Said DRID, Batna
Samir LADACI, Algiers
Smail CHIHJ, Ouargla
Sallani Med IOUFK, Biskra
Saraya GOUDER, Batna
Saria ZEROUAL, El Oued
Soudani Mohammed ELBAR, Ouargla
Wassila TEBIB, Taref
Youssef BEKAKRA, El Oued
Youssef Soufi, Tebessa
Yousfi LAATRA, Tebessa*
Zohair TIR, El Oued
Zoubir Aoufmi, Tebessa

Organizing Committee Chairs:

President: Abdelmalek ATIA
Co-President: Mohammed Sadok MAHBOUB

Publication Chairs:

President: Mosbah ZIDANI
Co-President: Youcef SOUFI

Website Chair:
Haniza ADAIKA

Registration Fees: The Conference registration fees

Students	8000.00 DZ
Teachers/Researchers	12000.00 DZ
Exhibitors	20000.00 DZ
Foreign participants	20000.00 DZ

Note : All participants benefit from access to all ICOMRE'22 sessions including keynotes and industry sessions, Welcome Reception, coffee breaks, lunches, sightseeing tours, Dinners, and accommodation are not included.

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Important dates

Deadline of full papers submission

October 25, 2022.

Acceptance notification

November 20, 2022.

Early Registration deadline

November 25, 2022.

Date of the Conference

December 12-13, 2022.

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Paper Submission:

Papers must be written in English and should describe the work in detail. Please download the template from the conference website:
<https://levres.info/icomre22/>
Paper submission is through:
<https://easychair.org/conferences/%conf-icomre22>

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Publication

The selected outstanding papers will be invited to submit extended versions of their articles for publication as full journal papers in the following journals:
Journal of Mechanical Engineering and Sciences JMES, (indexed by: Thomson Reuters ESCI)



Sunday 11/12/2022

14:00 – 20:00

Conference Registration in Louss Hotel

First Day- Monday: 12/12/2022

07 :30 - 08 :30

Conference Registration in Lecture Hall – Pr.A.SADALLAH

08 :30 - 09 :30

Opening Ceremony
Lecture Hall – Pr.A.SADALLAH

09 :30 – 10 :00

Plenary Session 1
Chairs:
Pr. Soria Zeroual

Prof. Wissem Chikhrouhou
Director of LT2S
Laboratory, CRNS Sfax -
Tunisia

Nanoparticules
magnétiques pour le
traitement des tumeurs par
hyperthermie magnétique

10 :00 – 10 :30

Plenary Session 2
Chairs:
Pr. Fethi Khelfaoui

Prof. Mohammed Traiche
General Director of CDTA
Center, Algeria

Technologies des Lasers.

10 :30 – 11 :00

Posters Session (1)
Chairs:
Dr. Azzeddine Begas
Dr. Ghani Rihia

The presence of Corresponding author of the paper is
Obligatory

11:00 – 11:30

Coffee Break

11 :30 – 14 :00

Oral Workshop(1)

Materials

Chairs:
Pr. Djani Fayçal

Room 1

Lecture Hall –
Pr. A. SADALLAH

Renewable Energy

Chairs:
Pr. Youcef Bekakra

Room 2

1st Floor - Central Library

Optoelectronics

Chairs:
Dr. Omar Bentouila

Room 3

2nd Floor - Central Library

14 :00 – 15 :30

Lunch

15 :30

Tourist Outing & Traditional Dinner.

Second Day – Tuesday:13/12/2022
MediaTek Hall (Front to Technology Faculty)

08:00 – 08:30	Last Conference registration in MediaTek Hall (Front to Technology Faculty)		
08 :30 – 09 :00	Plenary Session 4 Chairs: Dr.Attia Abdelmalek	Prof. Ferhat Rehouma Director of LEVRES Lab, University of EIOued	Glasses for integrated optics
09 :00 – 09 :30	Plenary Session 5 Chairs: Pr. WissemChikhrouhou	Prof. MosbahZidani Batna2 University, Algeria	The scientific and technological interest of characterizing materials using the EBSD technique.
09 :30 – 10 :00	Coffee Break, & Posters Session (2) Chairs: <u>Dr.AzzeddineBegas</u> <u>Dr. Ghani Rihia</u>		The presence of Corresponding author of the paper is Obligatory
10 :00 – 12 :00	Oral Workshops(2)	Materials Chairs: Pr. LazharBechki	Room 1 1st Floor - Central Library
		Renewable Energy Chairs: Pr. DjamilaRekioua	Room 4 MediaTek Hall (Front to Technology Faculty)
12 :00 – 13 :00	Closing Ceremony MediaTek Hall (Front to Technology Faculty)		
13 : 00	Lunch		

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Oral Session 1 - Room 1 :Lecture Hall – Pr. A. SADALLAH

Materials

Monday, 12/12/2022 ---- 12 :00 - 14 :00

	Topic	Full name	Paper title
01	Materials	Kaouthar AHMOUDA	Study of physicochemical properties of greenly synthesized iron oxide nanoparticles
02	Materials	MAGHCHICHE Abdelhak	Green Synthesis of Nanoparticles from Medicinal Plants
03	Materials	O. BEN MYA	Influence of precursors on ZnO films structural, microstructural, optical properties and copper ions removal
04	Materials	REZIG Walid	Preparation , Characterization of Diatomite Coated Fe(OH) ₂ Nanoparticles and application in Photocatalytic Degradation of Organic pollutants

Oral Session 1 - Room 2 : 1st Floor - Central Library

Renewable Energy

Monday, 12/12/2022 ---- 12 :00 - 14 :00

	Topic	Full name	Paper title
01	Renewable Energy	Azzedine BOUTELHIG	Strengthening the irrigation need through the reuse of treated wastewater in agriculture. Perspectives in erecting solar still system in M'Zab valley
02	Renewable Energy	CHAIB Ibtissam	A Model Predictive Current Controller For Quasi Z- source Inverter
03	Renewable Energy	GRAIRIA Mohamed islam	An Improved Drooping Control for Distributed Generation Inverters in an Islanded AC Microgrid
04	Renewable Energy	BennadjiHocine	Backstepping and Modified Backstepping Control for Doubly Fed Induction Motor
05	Renewable Energy	SAYEH Karim Fathi	Direct Active and Reactive Power Control of Wind Energy Conversion System based DFIG passing through different operation modes
06	Renewable Energy	Abdelhak KEDDOUDA	Solar photovoltaic power prediction using artificial neural networks

OralSession - Room 3 : 2nd Floor - Central Library

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Optoelectronics Monday, 12/12/2022 ----- 12 :00 - 14 :00			
	Topic	Full name	Paper title
01	Optoelectronics	BOUAOUINA Mohamed Salah	Investigation of a fast optical half-adder combining nonlinear 2D-PC ring resonator and interference beams
02	Optoelectronics	MEGUELLATI Sami	Modeling of a distributed fiber optic sensor based on Phase-OTDR for dynamic monitoring applications
03	Optoelectronics	KHERIF Madjeda	Diffraction of vector vortex beams by a circular aperture
04	Optoelectronics	AHMID Djelloul	Comparative study of violet and green InGaN-based SQW LEDs using Silvaco TCAD tool
05	Optoelectronics	YOUSFI A	Angular acceleration of twisted beams

Poster Session 1 Materials, Optoelectronics&Renewable Energy Monday, 12/12/2022 ----- 11 :00 - 11 :30			
	Topic	Full name	Paper title
01	Materials	BRIKI Lyamine	Use of calcination residue from Chicken Egg Shells as a substitute for cement
02	Materials	Rebai BILLEL	Advanced composite materials Study of sandwich Plate structures made of (Metal: Ti-6Al-4V/ Ceramic: ZrO ₂) exposed at linear and nonlinear external thermal charge.
03	Materials	Amel GHARBI	Elaboration, Characterization and Corrosion Behavior of Al-10%Mo Alloy
04	Materials	LAMECHE Siham	Elaboration and Electrochemical properties of Sn/SnO ₂ modified electrode for environmental application
05	Materials	DJEGHADER Djamel	Water absorption and impact toughness of glass-reinforced composite materials
06	Materials	Oualid GHELLOUJ	Effect of Temperature on the Electrochemical Behaviour of API 5L X52 Pipeline Steel in Different Soils
07	Materials	ROUIHA Zohra	Green Synthesis And Characterization Of Nanoparticle
08	Materials	ZELMATI Djamel	Probabilistic notched failure assessment diagram for reliability estimation
09	Materials	BOUREBBOU Amor	Investigation of the wear of tungsten carbide inserts during cutting in turning

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10	Materials	LANEZ Imane	Study of structural, optical, and spectroscopic properties of Eu ³⁺ doped (Gd ₂ O ₃ /Lu ₂ O ₃)- Al ₂ O ₃ systems, synthesized by solid state reaction
11	Optoelectronics	ASKRI Souhaila	Determining the Density and Temperature of a Gas Mapping Profile Using Measurement Optical Interferometry. Application He-Ne Laser
12	Optoelectronics	OUDENANI Ahmed	Modeling Study of Different Photonic Crystal Fiber for Sensors
13	Optoelectronics	KOUICEM Imene	Comparative study of solar lasers performance with Nd:YAG and Nd:Glasses active mediums
14	Optoelectronics	REGUIG Maroua	Comparative study of Nd: YAG solar laser performance in end-pumping, side-pumping and end-side-end-pumping configurations
15	Renewable Energy	TIZZAOUI Mouloud	Thermal Loads Evaluation of Cold Storage Container for Vegetables in Rural Saharan Environment
16	Renewable Energy	REHOUMA Youssef	Effetinclination for PV System and data acquisition used CPU in experimental validation
17	Renewable Energy	Hamza ADAIKA	Bearing Fault Diagnosis by Using Convolutional Neural Network and Information Fusion on Induction Motor
18	Renewable Energy	BouderresNacer	Comparative Analysis and Optimization of MPPT Algorithms using Classical and Machine Learning Methods Applied to a Standalone Photovoltaic Plant
19	Renewable Energy	ZELLOUMA Dalal	Eliminate of Torque Ripple using Fuzzy Logic Backstepping Control of an Induction Motor
20	Renewable Energy	Abdallah DOGGA	"Experimental study of Biodiesel extraction from the Algerian desert plants: A Case of Castor Bean
21	Renewable Energy	Badreddine GUEMMOU	Optimal Placement of PMUs for Power System Using Gazelle Optimizer Algorithm
22	Materials	Samia AGGOUNE	Analysis Of Melt Pool Instabilities During Stainless Steel Selective Melting Process

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Oral Session 2 - Room 2 :1st Floor - Central Library

Materials

Tuesday, 13/12/2022 ---- 10 :30 - 12 :30

	Topic	Full name	Paper title
01	Materials	FACI Youcef	An experimental analysis of open-hole composite damage by Digital image correlation.
02	Materials	RADJEHI Lamia	Ag2O/TiO2 nanocomposites for improved photocatalytic and antibacterial performance
03	Materials	BELBEL Abdeljabbar	1- Adsorption and Photophysical Properties of Fluorescein Dye over Zr-Pillared Montmorillonite 2- Removal of Imidazolium Ionic Liquids from Aqueous Solutions Using Pillared Clay
04	Materials	Imad Hamadneh -Jordan-Online	Effect of Heat Treatment on the formation and transport properties of GdBa ₂ Cu ₃ O ₇ prepared via nano-precipitation powders

Oral Session 2 – Room 4 :MediaTek Hall -(Front to Technology Faculty)

Renewable Energy

Tuesday 13/12/2022 ---- 10 :30 - 12 :30

	Topic	Full name	Paper title
01	Renewable Energy	Nacer LEBBIHIAT	Thermal performance evaluation of spiral earth–air heat exchanger for summer cooling
02	Renewable Energy	Hazem BAKINI	Performance Evaluation of Modulated Model Predictive Control for a Three-Phase two level Inverter
03	Renewable Energy	Fares BETTAHAR	MPPT Design Using Cuckoo Search Algorithm Technique for Photovoltaic System under Partial Shading Conditions
04	Renewable Energy	BAKINI Hazem	An Improved Adaptive Deadbeat Control Using Online Model Parameter Identification for Grid-Connected Two-Level Inverter
05	Renewable Energy	Deboub RAOUF	A Robust Droop Control Technique for Parallel Inverters in Micro Grid Applications
06	Renewable Energy	MostefaKermadi	Special workshop How to Design Efficient Power Converters for Electric Power Conversion Systems

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Poster Session 2 - MediaTek Hall -(Front to Technology Faculty)			
Materials&Renewable Energy		Tuesday, 13/12/2022 ---- 10 :00 - 10 :30	
No	Topic	Full name	Paper title
01	Materials	BAIRA FAYCAL	STUDY OF THE PROPERTIES OF INDUSTRIALLY DEFORMED AND ANNEALED COPPER WIRE
02	Materials	NAIMI Nesrine	Structural and Optical properties of LiGd _{1-x} Lu _x (WO ₄) ₂ co-doped Yb ³⁺ /Er ³⁺
03	Materials	Sara FARES	Influence of Zr content on the morphology and mechanical properties of chromium nitrides coatings
04	Materials	SALHI FAIZA	X-ray characterization of Cr-N hard coating
05	Materials	HADDAD Nouredine	Degradation of the mechanical behavior of polyethylene PEDH80 by artificial aging under the effects of ultraviolet radiation and tensile testing.
06	Materials	RABHI Chaima	Primary Reagent Nature Effect on Bi-2212 Superconducting Phase Precursor Formation Using Photo-polymerization Based Method
07	Materials	NAIMI NESRINE	Structural and Optical properties of LiGd _{1-x} Lu _x (WO ₄) ₂ co-doped Yb ³⁺ /Er ³⁺
08	Materials	ALLAG Nassiba	Influence of precursors on ZnO films structural, microstructural, optical properties and copper ions removal
09	Materials	REKIK Brahim	Study of structural, optical, and spectroscopic properties of Eu ³⁺ doped (Gd ₂ O ₃ /Lu ₂ O ₃)- Al ₂ O ₃ systems, synthesized by solid state reaction
10	Materials	Ayachi MohammedLakhdar	Nonlinear optical properties of pure tin oxide
11	Renewable Energy	RekiouaDjamila	Design and feasibility of a photovoltaic/wind turbine/battery system in Béjaïa area
12	Renewable Energy	Djaafar TOUMI	A Comparative Study Between three Different MPPT Algorithms for Photovoltaic System
13	Renewable Energy	ALIA Imane	Circulating Current Elimination for Double-stage Grid-Connected Modular Multilevel Converter in PV Applications
14	Renewable Energy	Fettah KHALED	A Review of Solar Photovoltaïque Potential in Algeria
15	Renewable Energy	BEN ALI Hammoudi	Direct Torque Control of Doubly-Fed Induction Generator for Wind turbine generation
16	Renewable Energy	MouniraChelgham	Degradation of the mechanical behavior of polyethylene PEDH80 by artificial aging under the effects of ultraviolet radiation and tensile testing.
17	Materials	Omar Alleg	State feedback controller using mean value theorem approach

WELCOME TO EL OUED