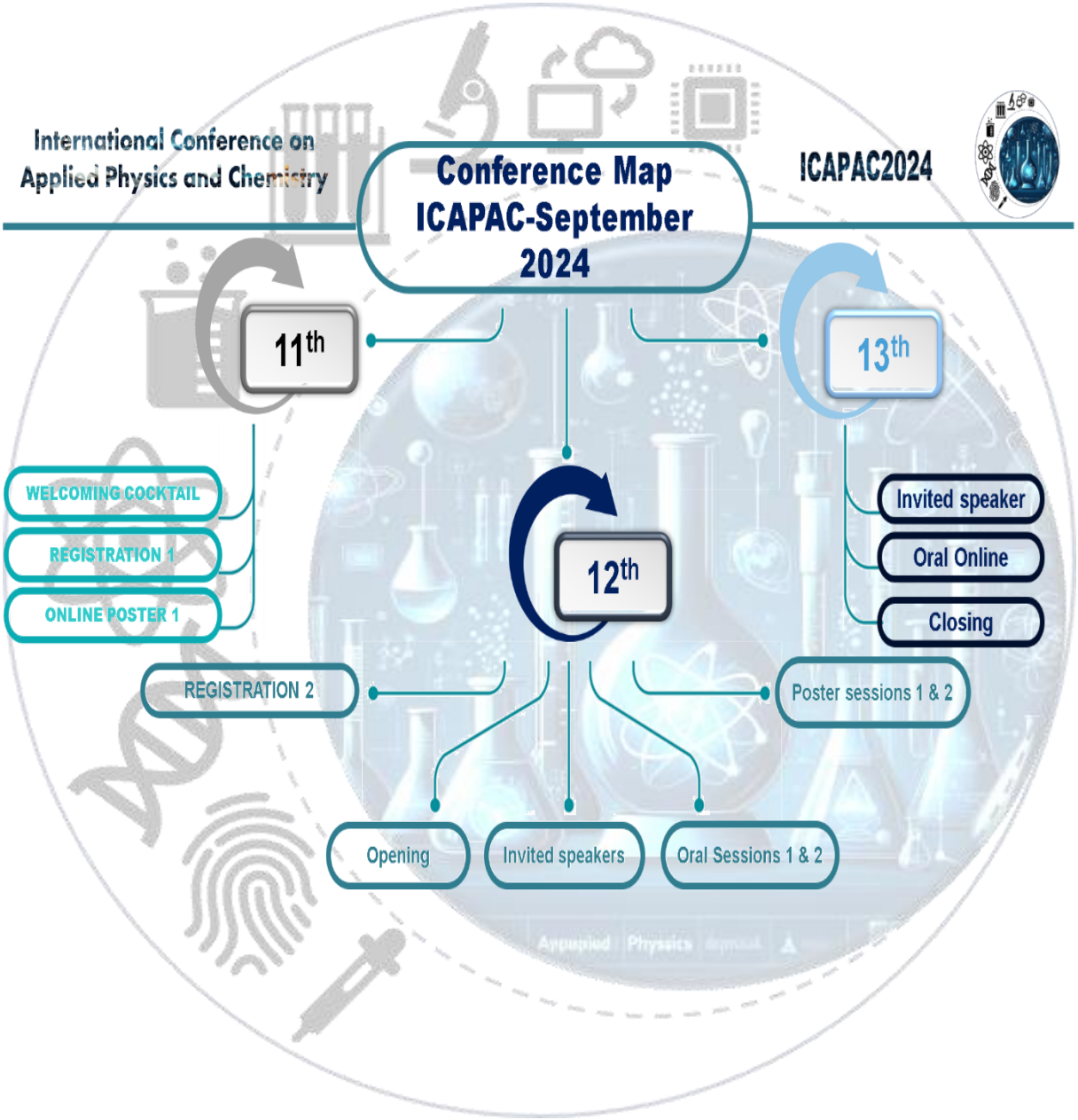

International Conference on Applied Physics and Chemistry
Conference Map ICAPAC-September 2024
ICAPAC2024
11th
12th
13th
WELCOMING COCKTAIL
REGISTRATION 1
ONLINE POSTER 1
REGISTRATION 2
Opening
Invited speakers
Oral Sessions 1 & 2
Poster sessions 1 & 2
Invited speaker
Oral Online
Closing



FINAL PROGRAM ICAPAC- 2024

11th September 2024		
16:00- 18:00		
WELCOMING COCKTAIL & REGISTRATION-CHECK-IN (ONLY for participants with accommodation)		
18:00- 20:00		
ONLINE POSTER PARTICIPATION 1		
Chemistry		
Chairs: Arif Mermer and Khedidja Benarous		
51	Karima Azouaou	Entomopathogenic activity of two Fusarium strains (hypocreales, ascomycota) against black bean aphid (Aphis fabae scop: Aphididae, Hemiptera
52	Rabiaa Merrouche	Production of bioactive molecules active against pathogenic bacteria by the TZ2 strain of Streptomyces, isolated from Algerian soil
53	Soumeya Krimat	Allelopathic potential of essential oils from Algerian *Citrus*
54	Mohammed Dellali	New Hydrogel based on chitosan and glutaraldehyde as potential support for drug delivery and their applications in dermatology
58	Roukia Benyammi	Enhancing Ajmalicine Production in *Catharanthus roseus* Hairy Roots through Salicylic Acid Treatment
60	Khadidja Bengana	Bridging Experiment and Simulation: Unveiling the Lipase Inhibitory Potential of Essential Oils of Laghouat Region Through *In Vitro* and *In Silico* Analyses
62	Elaabid Sahar	Remote sensing of water quality (chlorophyll a) of reservoir – Souss basin – Morocco
64	Amel Kouache	Synergistic inhibition effect of *Inula viscosa* extract with ki on steel corrosion in 1M HCl solution: electrochemistry and surface analysis
61	Madjda Benguechoua	Exploring the Potential of Olive Oil-Infused Date Seeds in Cosmetic Formulations
63	Mebarka Imane Benguechoua	Harnessing Citrus By-Products for Sustainable Cosmetic Solutions
65	Ibrahim Sifi	In-silico study of anticholinesterase activity of six flavonoids isolated from Polygonum and Dorstenia species
66	Nawel Gousmi	Calculation of germination index of wheat grains using petroleum wastewater
69	Zohra Renane	*Thymus algeriensis* Antifungal Activity Against Four Fungus from the Fusarium Genus
81	Abderahmane Linani	Exploring the inhibitory effect of some sponges alkaloids on human pancreatic amylase
84	Leila Bou-Salah	In silico study of the xanthine oxidase inhibitory activity of certain marine alkaloids: treatment of gout
101	Nourhane Touil	Synthesis, molecular modeling and in silico studies of anti-Alzheimer potential of diazenyl α-aminophosphonates derivatives
77	Saliha Lakehal	*Sarcocystis. Spp* infection in meat products: histological study
58	Chafia Tigrine	Phytochemical screening, antioxidant and antibacterial activities of *Retama sphaerocarpa (L.) Boiss. From A*
41	Ahmed Nouasri	Phytochemical study and antioxidant activity of Verbena officinalis L alcoholic extracts

ONLINE POSTER PARTICIPATION 1		
Physics		
Chairman: Tihomir Latinovic and Alaeddine Kaouka		
32	Salah-Eddine Houicher	Quasi statique modeling and computation of the magnetic field create under and beneath overhead transmission lines
47	Djalila Aoufi	Effect of Plasticizer Content on the Properties of Biocomposite films based on polysaccharides
52	Fatiha Babaghayou	Modeling of the appearance of steamers in strong fields - Applications to laboratory electrical discharges

Note: ONLINE; a poster via Google chat & an oral participation via Google Meet

12th September 2024
08:00-08:45
REGISTRATION-CHECK-IN (for participants without accommodation)
08:45-09:00
OPENING CEREMONY; Assoc. Prof. Arif Mermer (chairman of the conference)
09:00-09:30
Invited Speaker 1: Prof. Dr. **Khedidja Benarous,** Laghouat University, Algeria **"Advancements in the Isolation, Characterization, and Biological Activity of Hispidin: Integrating In Silico and In Vitro Approaches"** Chairs: Arif Mermer & Erkan Türker Baran
09:30-10:00
Invited Speaker 2: Prof. Dr. **Erkan Türker Baran, University of Health Sciences, Türkiye** **" Marine-based Biopolzmers in Bioprinting Technologies"** Chairs: Benarous Khedidja & Arif Mermer
10:00-10:30
Invited speaker 03: Assoc. Prof. **Fatih Kocabas,** Yeditepe University, Türkiye **" MEIS inhibitors in regeneration and cancer"** Chairs: Arif Mermer & Erkan Türker Baran
10:30-11 :15
Coffee break & POSTER SESSION 1 Chairs: Fatih Kocabas & Arif Mermer

Chemistry		
40	Ali H. Bashal	The Influence of Supports (Bentonite vs TiO_2) on Dielectric Properties of Cerium Based Composites
37	Walid Mamache	Therapeutic Potential of *Salvia aegyptiaca* Extracts in Ethanol-Induced Gastric Ulcer: Insights into Macroscopic, Histopathological, and Biochemical Mechanisms

39	Abdenacer Mouffok	Antimicrobial Activity of *Thymus Vulgaris* Essential Oil and Deep Eutectic Solvents
38	Bencheikh Amor	Evaluation of the combination $ZnCl_2$-Biocontrol bacteria in the control of *F. culmorum*, responsible for Fusarium crown rot
78	Rachid Sahraoui	Carboxymethylcellulose/Citric acid Hydrogels: Elaboration and Use for Methyl Violet Removal from Aqueous Solutions
59	Kheira Hammou	Vibrational spectroscopic analysis of 2,6-bis(4-fluorophenyl)-3,3-dimethylpiperidin-4-one (BFDP), DFT and molecular Docking study
67	S. Hadj-Miloud	Evolution of salinity and chemical composition of soil solution study under arid conditions
30	Laassami Affaf	Isolation and molecular study of pioneer fungi of grapevine trunk diseases
72	Nadia Mahdeb	Method of Lietchifield and Wilcoxon for toxicological classification and sex sensibility: Cases of methanolic extract of the plant *Ruta montana* in rats
28	Henia Saib	Phytochemical screening and ethnobotanical study of *Dittrichia viscosa* (L.) W. Greuter in Algeria
22	Habiba Haddad	Theoretical and experimental investigations of complexes in groundwater: DFT studies
16	Samira Tata	Chemical characterization and determination of structures of Mzabimycins
18	Amina Mezerket	Evaluation of some plant essential oils against the root knot nematode
20	Fatiha Malki	Study on Surface tension properties of novel synthesized fatty pyrimidinium betaines
	Physics	
13	Samira Mehdi	Effect of Electron Transport Material on the Performance of Green Fluorescence OLED
29	Ahlame Mraouefel	RHEED characterization through simulation of homoepitaxial deposition of GaAs/GaAs (100)
47	Bouras Rachid	Failure modes of adhesive mortars, competition between cavitation and fracture
53	Nacera Boudaoud	Improvement efficiency on InCuGaSe2/CdS:Cu doped-based solar cell
55	Barkahoum Harieche	Comparative study of CdS/PS and CdS/PMMA composite films
59	Ouili Zeineddine	Study of Cu and Al doped ZnO and Al/Cu co-doped ZnO thin films

11:15-13:00

ORAL SESSION 1

ROOM 1 (Chemistry) **Chairman: Erkan Türker Baran & Khedidja Benarous**	**ROOM 2 (Physics)** **Chairman: Alaeddine Kaouka & Arif Mermer**
11:15-11:30	
Eder C. Lima “Removal of Nipagim M from simulated wastewaters using activated biochars”	Bouadjemi Bouabdellah “Optoelectronic, Structural and Magnetic Properties of Double Perovskite Ba_2BTaO_6 (B = Gd, Yb) for UV Radiation Reflectors: A first-principles calculations”
11:30-11:45	
Serpil Demirci ”Investigation of Antimicrobial and Anticancer Potentials of New Heterocyclic Compounds Synthesized via Multicomponent Reactions Using in Silico Methods”	Wafa Sassi “Central Composite Design and Artificial Neural Network studies for composition and thickness prediction of electroplated Ni-based coatings”

11:45-12:00	
Nacera Boudaoud “Sorption of Dye NET (Eriochrome Black T) on Leyered Bouble Hydroxyde HDL,Characterization and Sorption Studies”	Hinane Baleh “Structural and electrical properties of Poly (benzaldehyde-co-thiophene)/SnO_2 composites”
12:00-12:45	
Rachid Sahraoui “Phytochemical Analysis and biological study of *Marrubium vulgare* extracts”	Dalila Laouchedi “Mechanical Behavior of Injected Epoxy Resin 812 Loaded with Maghnia Bentonite”
12:45-13:00	
Mohamed Aissaoui “Grain quality improvement of four bread wheat genotypes grown under supplmental irrigation in semi-arid conditions”	/
13:00-14:30	
Lunch	
14:30-18:00	
ORAL SESSION 2	
ROOM 1 (Chemistry) **Chairs: Fatih Kocabas & Arif Mermer**	**ROOM 2 (Physics)** **Chairs: Wafa Sassi & Alaeddine Kaouka**
15:00-15:15	
Abdelouahab Bouzidi ” Computation of lethal doses by the Lietchifield and Wilcoxon methods of the herbicide acetochlor for toxicological classification and sex sensitivity study”	Hayat Arbouz “Improved performance of solar cell structure based on environmentally friendly double perovskite inorganic absorber material with low bandgap energy: Cs2BiAuCl6”
15:15-15:30	
Yamina Chergui “Study of the adsorption parameters of dyes using an oenological by product as an adsorbent”	Fatiha Ait Ahmed “The influence of diatomite on the flexion resistance of mortars”
15:30-15:45	
Sarra Bouhallel “Unlocking the Potential of Neglected Cereal Resources Waste: Exploring Functional Properties of Algerian Pearl Millet Starch via Wet Milling and Ultrasound Techniques”	Latifa Adjoudj “Nonparametric relative error estimation of the regression function for Truncated-Censored data”
15:45-16:00	
Asmaa Benettayeb “The Glycine-Chitosan used as a new biosorbent in industrial wastewater treatment”	Rochdi Bouchebbat “Artificial intelligence-based optimized energy control of autonomous hybrid renewable energy system”
16:00-16:15	
Dalila Naimi “Exploring synergistic antibacterial effect of Chitosan - loaded PgPE- Nanoparticle and Poly Morphonuclear Neutrophils (PNN)”	Yakup Şirin “Determination of the Properties of Dietary Fiber Produced From Industrial Food Waste Mulberry Pulp“
16:15-16:30	
Intissar Loughlaimi “Coagulation and Flocculation Treatment of Wastewater in Mining Chemical Analysis Laboratories “	/
16:30-18:00	
Coffee break & POSTER SESSION 2	
Chemistry	

44	Salima Belkouche	Variation in the Dietary Preferences of *Messor barbarus* L. (Hymenoptera, Formicidae) between Forest and Cereal Zone in Kabylie.

23	Abdelouahab Belhadj	Consequence of Organic matter storage on microorganisms and wheat yield after the adoption of the conservation agriculture system in Algeria
45	Hamida Belhadj	Entomological Biodiversity in a Saharan Environment (Tamanrasset)
91	Hassina Meguellati	Study of the anti-inflammatory properties and acute toxicity of the infusion of *Cistanche violacea* (Desf.) Beck
85	Harchaoui Lilya	Phytochemical and pharmacological profile of *Centaurium erythrae*
56	Ouafi Saida	Phytochemical analysis and pharmacological properties of *Myrtus communis* aerial parts
49	Amel Merabet	Biology of the Reproduction of Three Species of Doves: the European Turtle Dove (*Streptopelia turtur*), the Eurasian Collared Dove (*S. decaocto*)
61	Wassila Chekirou	Geometrical optimization study of a tubular adsorber of adsorption cooling machine using activated carbon/methanol
62	Nahman Boukheit	Uniform temperature adsorber and regenerative processes study in a double adsorptive solar cooling cycle
54	Belamri Zehira	Characterization of cobalt oxide nanocoating: Impact of solution molarity
90	Yamina Chergui	Kinetics Analysis, Thermodynamics, and Adsorption Isotherms of Two Anionic Dyes by a raw and activated Brewery Marc
94	Houria Medjdoub	Antidiabetic potential of mucilages from Algerian Saharan *Zygophyllum geslini* in streptozotocin-induced diabetic rats
56	Karima Bouti	Incidence of aflatoxigenic species of *Aspergillus* section Flavi and aflatoxins in corn intended for animal feed
Physics		
27	Bousalah Fayza	High frequency 5g networks for satellites telecommunications
44	Zohra Yellas	Frequency conversion in periodically poled GaN
19	Mohammed Z. Baba Ahmed	Reconfigurable Antennas with Various Techniques and Materials for Radar Satellite Communications
41	Amel Bahfir	Numerical Investigation of NiO as a Back Surface Field Layer in CZTS Solar Cell
90	Souad Belhour	Combination of Resources of Renewable Energy Resources in the Hybrid Energy Systems
39	Ouassila Benzaoui	Modeling Electrical Characteristics of a polycrystalline silicon solar cell
31	Mohamed Said Boutaani	Numerical Homogenization of the Mechanical Performance of Palm Fibers in a High-density Polyethylene Matrix
28	Kenza Zaibak	The Effect of the Width Parameter of the Gaussian on the Time- Frequency Representation
19:00-21:00		
Gala Dinner		

13th September 2024

09:00-09:30

Invited speaker 04: Prof. Dr. **Tihomir Latinovic,** University Vitez, BiH

" Renewable Energy Harvesting: Eliminating Batteries in Wireless Sensor Networks and IoT Devices" Online

09:30-11:00

ORAL ONLINE PARTICIPATIONS

Chemistry

Chairs: Arif Mermer and Khedidja Benarous

57	Samira Nia	Investigating the fatty acid profile, tocopherols, sterols, and antioxidant potential in okra seed oil
58	Malika Alili	Chitosan from Shrimp Shells: A Catalyst for Lavender Growth Elicitation
95	Fatna Bellahcene	Exploring the Inhibitory Effects of *Inonotus hispidus* and *Pinus maritima* on Xanthine Oxidase by In vitro and Modeling Approaches
07	Salima Tabti	Biomimetic oxidation of catechol employing complexes formed in situ with Schiff base ligand and different copper (II) salts
53	Karabıyık Acar Özge	Calcium Chloride/Chitosan-Crosslinked Alginate Microcapsules for Enhanced Parathyroid Cell Transplantation

Physics

Chairs: Tihomir Latinovic and Alaeddine Kaouka

21	Loubna Benhabib	Dimensioning and simulation of a photovoltaic system for a habitation
27	Hanane Saifi	Study of Collective Behavior and Symmetry in the vicinity of Neutron-Rich Doubly Magic 78Ni : Germanium Isotopes
35	Sarah Ouchikh	Application of response surface methodology for optimization of performance and emission parameters of a CH4/diesel dual-fuel engine
43	Fatima Barrarat	Crack depth identification using deep learning approach based on ECT signature
46	Boubekeur Razika	Study of the effect of TiO_2 nanoparticles on mechanical and thermal properties of composite nanofiltration membranes based on polysulfone
30	Brahim Benazzouz	The effect radius of cations on structural properties and bulk modulus of carbonate minerals by molecular dynamics

12 :00

CLOSING