Istanbul-Türkiye

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Program

10 – 12th September 2025

Hybrid: Face to face & online

ICAPAC 2025

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Journals

Physics

Materials Science Forum

Materials Science Forum

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Key Engineering Materials

Key Engineering Materials

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Chemistry

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PROGRAM ICAPAC- 2025

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10 th September 2025	
14:00-15:00	**REGISTRATION**
15:00-15:15	**OPENING CEREMONY;** **Assoc. Prof. Arif Mermer (chairman of the conference)**
15:15-15:45	**Keynote speaker Dr. Ercüment Yilmaz** *Department of Software Development, Karadeniz Technical University* *Trabzon, Türkiye* **Title** : **Integrating Artificial Intelligence and Software Development in Computational Chemistry-Based Drug Discovery** Chair: Ç. Yağcı & A. Mermer
15:45-16:15	**Keynote speaker: Dr. Aydin Tahmasebifar** *Department of Dermatology, Mayo Clinic* *Rochester, USA* **Title** : **Bioprinted Human Skeletal Muscle Constructs Using Distinct Collagen Sources** Chair: A. Beyatli & A. Mermer
16:15-16:35	**COFFEE BREAK**
16:35-17:35	**E-Posters Session** Room1-Chemistry (from FPCh1 to FPCh8) Chair: A. Tahmasebifar & Dr. E. Erol Room2-Physics (from FPPhy1 to FPPhy5) Chair: A. Abdala & A. Mermer
17:35-18:30	**Online Posters** Room1-Chemistry (from LPCh1 to LPCh26) Chair: A. Tahmasebifar & Dr. K. Benarous Room2-Physics (from LPPhy1 to LPPhy3) Chair: A. Abdala & A. Kaouka
Note: ONLINE; a poster via Google chat & an oral participation via Google Meet	

11 th September 2025	
9:00-9:30	**Keynote speaker: Dr. Ebru Erol** *Pharmacy faculty, Bezmialem Vakıf University* *İstanbul, Türkiye* **Title** : **Natural Compounds as Blueprints for Novel Drug Discovery** Chair: A. Beyatli & A. Mermer
9:30-10:00	**Keynote speaker :Dr. Ahmet Beyatli** *Faculty of sciences, Melbourne University* *Melbourne, Australia* **Title** : **Seaweeds As a Reservoir of Novel Bioactive Compounds: Enhancing Pharmaceutical Prospects** Chair: A. Mermer & E. Erol
10:00-10:30	**Keynote speaker Prof. Dr. Ahmed Abdala** *College of Science and Engineering, Hamad Bin Khalifa University* *Doha, Qatar* **Title** : **Advanced Membranes for Energy-Efficient and Sustainable Air Cooling** Chair: A. Mermer & A. Beyatli
10:30-10:50	**Coffee Break**
11:00-11:30	**Keynote speaker Dr. Glatz Katja** *Deputy Editor of ChemistrySelect journal, Wiley-VCH for the Chemistry Europe journals* *Weinheim, Germany* **Title** : **Opening the Editor's Black Box: Insider Tips for Successful Submissions** Chair: S. Yakub & E. Ebru
11:30-13:00	E-Posters Session Room1-Chemistry (from FPch9 to FPCh14) Chairs: A. Mermer and A. Bayatli Room2-Physics (from FPPhy6 to FPPhy11) Chair: E. Erol & Y. Sirin
13:00-14:00	**Lunch**
14:00-15:00	Oral session Room1-Chemistry (FOrCh1 and FOrCh7) Chairs: A. Mermer and A. Bayatli Room2-Physics (FOrPhy1 to FOrPhy5) Chair: E. Erol & Y. Sirin

15:00-16:15	E-posters session Room1-Chemistry (from FPCh15 to FPCh26) Chair: A. Mermer, and K. Benarous
16:15-16:45	**Coffee Break**

12 th September 2025	
9:00-9:30	**Keynote speaker Dr. Çiğdem Yağcı** *Department of Science Education, Kocaeli University* *İzmit, Türkiye* **Title** : **Versatile Sensing with Phthalocyanine–Reduced Graphene Oxide Composites: Applications from Liquid to Gas Phase** Chair: E. Yilmaz & A. Mermer
9:30-10:30	Online Oral session Room1-Chemistry (from LOrCh1 to LOrCh9) Chair:Ç. Yağcı & E. Yilmaz Room2-Physics (From LOrPhy1 to FOrPhy3) Chair: A. Kaouka, and E. Yilmaz
10:30	**CLOSING**

ID	name of participant	Title
FOrCh1	Gülşah Çelik Gül	Simulation and Carbon Footprint Assessment of the Boron Logistics Chain in Turkey
LOrPhy1	Ylli Kaçiu	Measurement Techniques for Indoor Radon: A Comparative Review of Detection Methods
FPCh1	Henia Saib	Phytochemical, Anatomical and Antioxidant Potential of Dittrichia viscosa: A Promising Medicinal Plant for Oxidative Stress-Related Disorders
FPCh2	Amina Mezerket	Nematicidal potential of Bacillus species against the potato cyst nematodes
FPCh3	Mohamed Lotfi Efrit	Eco-Friendly and Sustainable Synthesis of 5-Vinyl-1,2,4-Triazoles from Imidates: A Green Chemistry Approach
FPCh4	Hédi Mrabet	Regioselective synthesis of new functionalized isoxazoline derivatives via a 1,3-dipolar cycloaddition and evaluation of their antibacterial activity
FPCh5	Hatem Ben Romdhane	Poly(imide-1,2,3-triazolium): a new candidate for polymer electrolytes
FPCh6	Noureddine Amdouni	Effects on the structure and electrochemical reactivity of surface modified magnesium cobalt oxide
FPCh7	Samira tata	Biotechnological valorization of agro-industrial waste for antibiotic production by Actinokineospora mzabensis: Physicochemical characterization and biological assessment”
FOrCh4	Humeyra Karakas	Investigating the Phytochemical Content and Antioxidant Activity of Olea europea L. Flowers: Valorization of Olive By-Products
FPCh8	Muhammed Ataberk Duymuş	Chemical Profiling and Antioxidant Activity of the Marine Sponge Dysidea avara from the Dardanelles
FPCh9	Djamai Wissam	Dual Encapsulation of Phycobiliproteins from Freshwater Microalgae Using Alginate and Carrageenan–Acrylamide Biopolymer Coatings for Enhanced Stability and Antioxidant Activity
FOrCh6	Gülşah Çelik Gül	Simulation Integrated Use of MCDM and GIS for Determining the Optimal University Location for a Boron Research Institute in *Turkey*

FPCh11	Samir Hadj Miloud	Assessment of salinity dynamics and chemical facies of saline soils in a Mediterranean environment
FPCh12	Mohamed Mihoub Zerroug	Stimulation of Triticum durum Desf. GTA growth by PGPR bacteria isolated from the wheat rhizosphere of Setif region East of Algeria
FPCh13	Meriem Hamoudi	Phytochemical screening and antioxidant activities of Berberis hispanica leaves and stem bark
FOrCh2	Abdelali Boussif (Absent)	~~Imidazoquinolines Targeting of TLR7/8 for innate immunity restoration in cirrhosis~~
FPCh14	Abdelmalek Kachbi	Spectrophotometric determination of total phenolic content in aromatic herb infusions using partial least squares regression
FPCh15	Ounissa Senhadji-Kbeiche (Absent)	~~Starch-Based Polymeric Systems for the Controlled Delivery of Pesticides~~
FPCh16	Boukabache Leila (Absent)	~~Which arteries are responsible for the irrigation of the tibial plateaus~~
FPCh17	Fatiha Heffaf	Bioactivities of Semi-Arid Plant Extracts: Phytochemical Analysis and Antioxidant Potential of Artemisia campestris and Anacyclus valentinu
FOrCh5	Radja Achiri	Comprehensive Phytochemical Profiling and Pharmacodynamic Assessment of Cladanthus arabicus Essential Oil from Distinct Algerian Bioregions: Integrative in Silico and Experimental Approaches Towards Novel Therapeutics"
FPCh18	Elhadj Kolli	Chemical Composition of *Carthamus pinnatus Desf.* Essential Oil from North East Algeria
FPCh19	Iggui Kahina	Biodegradation of Polyhydroxybuterate-Co-hydroxyvalerate / Cloisite 30B nanobiocomposite under composting conditions
FPCh20	Yassine Aimene	Synthesis and computational evaluation of triazole-pyridine derivatives as potential inhibitors of ACE2 receptor
FPCh21	Ouahiba Ait Yahia	Investigation of the Molecular Composition and Antioxidant Properties of Lepidium sativum L. seeds
FPPhy9	Ahlame Mraouefel (Absent)	~~Impact of pH and Annealing Temperature on Structural Evolution and Organic Residue Removal in $Y(V_{0.5}P_{0.5})O_4$:1% Tb^{3+} Nanoparticles: FTIR and Crystallite Analysis~~
FPPhy1	Moulahcene Lamia	Preparation of microcrystalline cellulose-chitosan beads for an enviromental application

FOrPhy1	Chahrazad Amrane (Absent)	~~Synthesis and Characterization of Thenardite Nanoparticles from spent iron pickling bath~~
FPPhy7	Yassine Djaballah (Absent)	~~Ab initio investigation of the (Au-Sc) binary system~~
FPPhy3	Fatima Zohra Bouzit	Effect of S/Ni molar ratio on the nanocrystalline Ni-S coatings: Rietlved analysis and morphological investigation
FPPhy2	Hammache Fadila	Application of an effective new biopolymer for tetracycline removal from aqueous media
FOrPhy2	Rochdi Bouchebbat	Optimal Real-Time Energy Management of Hybrid Photovoltaic/Wind System Based On Pattern Search Algorithm
FPPhy4	TOUHAMI Mohamed Zine	Surface Characteristics Analysis of High Strength Low Alloy Steels Using Nitrocarburizing Process
FOrPhy3	Houria Hernoune (Absent)	~~Finite Element Prediction of NSM-FRP Reinforced Masonry Walls under In-plane Shear and Compression: A Finite Element Approach~~
FOrPhy4	Abdelkader NOURI	Enhanced Si Solar Cell Efficiency via O_2/N_2 Annealing Passivation of c-Si Surfaces
FOrPhy5	Hanane Aburideh	Enhanced Desalination Performance of Cellulose Acetate-Modified Thin-Film Composite Membranes
LPPhy1	Yamina Bouayed-Kazi Aouel	Study of the Thermodynamic Properties of Polymer and Recycled Liquid Crystal Mixtures”
LPCh1	Meliani Nawel	Synergistic Interaction Between Aloysia citrodora Essential Oil and Antibiotics Against Multidrug-Resistant Bacteria: Evaluation of Antioxidant, Antimicrobial, and Anti-Inflammatory Properties
LPCh2	Kheira ZANOUNE	“Development of polymeric microparticles loaded with the anti-inflamatory drug delivery”
LOrCh6	Nafila Zouaghi	Effects of Various Solvents on the Extraction Efficiency and Biological Activities of Opuntia stricta Fruit, Seed, and Peel
LPCh4	Bengana Khedidja	In Silico Evaluation of Three Flavonoids from *Salvia hispanica* as Natural Inhibitors of Human Pancreatic Lipase for Obesity Management
LOrCh7	Imene Daas	“Hematotoxicity, hepatotoxicity and nephrotoxicity evaluation after long-term exposure to lambda cyhalothrin and tetraconazole residues in rats”
LPCh6	souad serir	Production of Ecological Charcoal from Food Waste: A Project of Valorization and Innovation

LPCh7	Kaddour Faiza	Encapsulation of Eucalyptus radiata Essential Oil in β-Cyclodextrin (β-CD): Synthesis and Characterization of the Inclusion Complexes"
LOrCh8	Lamia KARA ZAITRI	DFT molecular designing of quinoxaline based small molecules acceptors for organic photovoltaic cells
LOrCh1	Hadjer Mansouri	Comparative Phytochemical and Biological Study of Inula montana and Inula viscosa from Distinct Bioregions in Tlemcen (Algeria): In Silico and Experimental Evaluation of Antioxidant, Anti-inflammatory, and Antimicrobial Activities
LPCh9	Meryem MESLI	Extraction of heavy metal using span 80 as surfactant process optimization
LOrCh2	Kahina Aimene	Prediction of the effect of an aneurysm on the behavior of an aorta traversed by blood modeled with the sph method
LOrCh3	Belahcen Fatna	Algerian Medicinal Flora as a Source of Natural Xanthine Oxidase Inhibitors: In Silico and In Vitro Assessment of Inonotus hispidus and Pinus pinaster Bark
LPCh12	Majda Benguechoua	Development and Characterization of a Novel Natural Cough Syrup Incorporating White Radish Extract and Bioactive Phytochemicals"
LPCh21	Benhamidat Lyna	Formulation of a Natural Anti-Inflammatory Gel from *Centaurea sulphurea* Roots: Aplotaxene as an Active Compound with Supporting Antioxidant Activity
LOrCh4	Sarah Ait Benali	Effects of high cholesterol - Methionine supplemented diet during pregnancy on hepatic MMP-2 and MMP-9 activities in female rabbit
LPCh14	Imene Benkechoua	Formulation and Characterization of Bioactive Cosmetic Products Derived from Pistacia atlantica and Natural Plant Extracts
LPCh10	Aouir Fatima	GS-MS Analysis, Mosquitocidal and Energetic Activity of Lantana camara (Verbenaceae) Essential Oils against the Avian Malaria Vector Culiseta longiareolata (Diptera: Culicidae) Under the Laboratory Conditions
LOrPhy3	Laslouni Warda	Influence of Mechanical Alloying on the Microstructure and Solid Solubility of Binary and Ternary Fe-Based and Cu-Based Nanostructured Alloys

LPCh15	Imene Benkechoua	Enhancing Olive Oil Quality and Health Benefits through Prolonged orange and lemon Peels Infusion
LPCh16	Fatiha Djazia LARBAOUI	Thermodynamic approach of the free radical scavenging capacity of new designed phenolic antioxidants derived from sesamol"
LPCh17	Kheira ZANOUNE	Development of polymeric microparticles loaded with the anti-inflamatory drug delivery
LPCh18	Abdelhakim Boudjedir	Effect of inhibitors on corrosion of structural steel and interaction in an aggressive environment
LPCh19	Sidahmed ELHABIRI	Environmental Remediation of Organic Dyes Using Ion-Exchange Resin Amberlite IRC-50 : A Comparative Study
LPCh20	Khadidja BELLIFA	In silico Antioxidant Activity of Protocatechuic Acid Derivatives: SAR, DFT molecular docking, drug-likeness and ADMET Studie
LPCh21	Lyna Benhamidat	Pharmacological Potential of Mentha piperita Hydrosol: An Untapped Natural Resource Revealed by Phytochemical and In Silico Approaches
LOrCh9	SARI M. Hanaa	Designing the Future of Biofuels: Molecular and Surface Optimizations for Hydrodeoxygenation
FPPhy6	Imededdine Zerrouk	Impact of layer architecture of Fe doped TiO_2 thin films deposited onto soda-lime-glass on enhancing photocatalytic efficiency
FOrCh3	Aicha Benlounissi	Chemical characterization and biological effects of Cyperus rotundus et Hyoscyamus niger used in hair growth stimulation
LPCh13	Majda Benguechoua	Evaluation of Organoleptic and Chemical Properties of Olive Oil Enriched with Date Seed from south of Algeria
LPCh24	Meghlaoui Bahia	Influence of machining temperature on the stability of cutting fluids
FPPhy5	Mohamed LABAÏZ	A Comparative Tribology Study of Metallic and Ceramics Biomaterials
FPCh18	Elhadj Kolli	Chemical Composition of *Carthamus pinnatus* Desf. Essential Oil from North East Algeria
FPCh22	Abdelouahab Belhadj	Impact of Organic Matter on Soil Chemical indicators under different types of land use in Mitidja Plain of Algeria
LOrCh5	Yasmine Benmansour	Removal of Malachite Green Dye Using Magnetic Biosorption: Characterization and Optimization

LPCh5	Karıma Azouaou	Isolation and Bioassay of Entomopathogenic Fungal Strains: Effect of Fusarium spp. (Hypocreales, Ascomycota) on the Green peach Aphid (Myzus persicae., Aphididae, Hemiptera)
LOrPhy2	Kadari Fatima	Investigation of the Structural, Electronic and Optical Properties of the zinc blande Zn x Cd 1-x Te ternary alloys : A DFT-Based
FPCh23	Rudaina Lenghi	Classical and non-classical analogues of Methotrexate
LPCh8	Afaf Bouzidi	Study of the photoreactivity of Bis-GMA/TEGDMA-based dental composites containing bovine hydroxyapatite
LPCh23	Hidaya Moulessehoul	Contribution to the study of the haemolytic effect of hydroalcoholic extracts of three plants
FPCh25	Habiba Haddad	Theoretical and experimental investigations of complexes in groundwater: DFT studies
FPCh26	SIFI KARIMA (absent)	~~Genetic pattern of SMN1 and NAIP genes in prognosis of SMA patients types II and III~~
FPCh9	Belkhodja Abdelmajid	Valorization of orange peel waste for green synthesis of zno-based bioadsorbents: application to textile dye adsorption
FPCh10	Dona Jalaly	Investigating the Potential Topoisomerase II Inhibitory Activity of β-lactam Antibiotics
LPPhy2	Rajammal Karuppiah	Tailoring the Crystallite and Morphological Characteristics of LiMnPO4 via Glucose-Based Carbon Coatings
LOrCh6	Kshatriya Monika	Design, Synthesis, and Biological Profiling of Novel Benzotriazole Derivatives as Potent DHPS Inhibitors and Antimicrobial Agents
FPPhy10	Aissa Belgacem Bouzida (Absent)	~~Ab-initio Calculations and thermodynamic assessment of the (Al-Ba) System~~
FPPhy11	Siham Arab	Evaluation on anthropogenic trace metal inputs in lake ecosystems: implications for water quality
FPPhy12	Mohamed Ali	Highly Corrosion-Resistant Coatings for Steel Infrastructure in Coastal Areas
LPCh26	SIDAMAR Ahmed	Effect of Rosemary (Rosmarinus officinalis) on the traditional preservation of dates in the Adrar region
FOrCh7	Gülşah Gökce	Comparative Analysis of Physicochemical and Bioactive Properties of Sumac (*Rhus*

		coriaria L.) Seed and Powder Extracts Obtained with Different Solvents
FPCh26	Yakup ŞİRİN	Physical and Chemical Properties of Black Mulberry (*Morus nigra*) Fruit and Dietary Fiber, Corrosion Inhibition Effect on Mild Steel

