



European Meeting
on Environmental Chemistry

EMEC25

23-25 NOVEMBER • CHANIA • GREECE

SCIENTIFIC PROGRAMME

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EMEC25 European Meeting on Environmental Chemistry

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Conference Secretariat

Alexandra Tsihlaki Technical University of Crete, Greece





Sunday, 23/11		Monday, 24/11			Tuesday, 25/11	
		8:00 Registration			8:00 Registration	
		Mikis T. Room A	Mikis T. Room B		Mikis T. Room A	Mikis T. Room B
		9:00 Keynote	9:00 Keynote		9:00 Keynote	9:00 Keynote
		9:20 Oral Session 1	9:20 Oral Session 2		9:20 Oral Session 5	9:20 Oral Session 6
		10:35 Coffee Break / Poster Session A / Exhibition			10:35 Coffee Break / Poster Session D / Exhibition	
		11:15 Keynote	11:15 Keynote		11:15 Keynote	11:15 Keynote
		11:35 Oral Session 3	11:35 Oral Session 4		11:35 Oral Session 7	11:35 Oral Session 8
12:00	Registration	12:20 Keynote	12:20 Keynote		12:20	Keynote
		12:40 Group Photo			12:40	ACE General Assembly
		Lunch Break			13:00	Lunch Break
		13:20	LECO presentation (Mikis T. Room B)			
		13:50 Poster Session B / Exhibition				
		Mikis T. Room A	Mikis T. Room B	CAM Room C		
13:00	Registration	14:30 Young Researchers Session 1	14:30 Young Researchers Session 2	14:30 Young Researchers Session 3	14:00	Keynote
	ECR Event (Mikis T. Room B)	15:40 Coffee Break / Poster Session C / Exhibition			14:20	Oral Session 9
		16:20 Young Researchers Session 4	16:20 Young Researchers Session 5	16:20 Young Researchers Session 6	15:05	Keynote
16:30	Registration				15:25	Coffee Break / Exhibition
	Mikis T. Room A					
17:30	Opening Ceremony					Mikis T. Room A
18:00	Plenary Lecture A. Voulgarakis				15:40	Plenary Lecture D. Fatta-Kassinos
18:40	Plenary Lecture D. Vione				16:20	Closing Ceremony / Awards / Presentation EMEC26
19:20	Welcome Reception				17:30	
		19:30 Bus Transfer				
		20:00 Conference Dinner				



Sunday, 23 November

12:00 - 19:20

Registration

13:00 - 16:30

Chem2Change ECR Network event

Mikis Theodorakis: Room B

17:30 - 19:20

Opening Session

Chairs: E. Psillakis, N. Fiol

Mikis Theodorakis: Room A

17:30 - 18:00 Opening Ceremony

18:00 - 18:40 PL-01 Atmospheric Chemistry and Climate Science: A Tale of Two Interconnected Scientific Fields

A. Voulgarakis

Technical University of Crete, Greece

18:40 - 19:20 PL-02 Photochemical Reactions in Sunlit Natural Waters

D. Vione

University of Turin, Italy

19:20

Welcome Reception

Mikis Theodorakis Exhibition Area



Monday, 24 November

9:00 - 10:35

Mikis Theodorakis: Room A

Oral Session 1: Biomass Valorization and Advanced Materials for Pollution Control

Chairs: D. Fatta-Kassinos, I. Katsoyiannis

- 09:00 - 09:20** **KN-1 Biomass Valorization in the Context of Sustainable Engineering and Circular Economy**
D. Mantzavinos
University of Patras, Greece
- 09:20 - 09:35** **O-1 Removal of Atmospheric VOC Pollutants (BTEX) by Sustainable Tuna Bone Char Adsorbents**
R.C. Pullar, M.L. Feo, F. Scalera, M. Frattoni, V. Paolini, E. Guerriero, C. Piccirillo
Ca' Foscari University of Venice, Italy
- 09:35 - 09:50** **O-2 Tailored Hydrochars for Targeted Removal of Persistent Mobile Organic Compounds in Decentralized Wastewater Reuse Systems**
S. Chaudhuri, P.B. Schulz, F. Schramm, M. Krauss, L. Röver, A. Georgi, A. Schierz
Helmholtz Centre for Environmental Research, Germany
- 09:50 - 10:05** **O-3 Tailoring Surface Functional Groups on Activated Carbons to Enhance Chlorobenzene Adsorption from HCl Effluents**
T.R.R. Graíña, J.P.S. Sousa
International Iberian Nanotechnology Laboratory, Portugal
- 10:05 - 10:20** **O-4 Fully Renewable Diphenolic Acid Synthesis in Batch and Continuous Reactors in the Presence of New Biomass-derived Acid Catalysts and LCA Evaluation**
C. Antonetti, D. Licursi, B. Bertini, F. Taddeo, A. Sessa, N. Scotti, R. Cucciniello, V. Russo, A.M.R. Galletti
University of Pisa, Italy
- 10:20 - 10:35** **O-5 Luminescent Metal Organic Frameworks (MOFs) for Detection and Adsorption of Emerging Pollutants**
C. Piccirillo, G. Provinciali, G. Bicchierai, A.L. Capodilupo, A. Mauri, G. Giambastiani, G. Tuci, S. Galli, A. Rossin
Istituto di Nanotecnologia, Italy



9:00 - 10:35

Mikis Theodorakis: Room B

Oral Session 2: Plastic Pollution: Emerging Challenges and Solutions

Chairs: P. Trebše, A. Gentili

- 09:00 - 09:20 KN-2 Nanoplastics: The Hidden Environmental Health Crisis**
R. Dzingelevičienė, N. Dzingelevičius, S. Abbasi, R. Vaičekauskaitė, A. Vilčiauskis, A. Bradauskaitė, Ž. Jurgelėnė, V. Bradauskienė, J. Andruškienė, Y. Serin, B. Buszewski
Klaipeda University, Lithuania
- 09:20 - 09:35 O-6 Besides Being Both Pollutants and Carriers, do Microplastics from Mulch Films also Affect the Soil Microbiome?**
M. Bavcon Kralj, U. Šunta, I. Merkun, M. Smrečnik, K. Godič Torkar
University of Ljubljana, Slovenia
- 09:35 - 09:50 O-7 Applying Principal Component Analysis (PCA) to the Assessment of the Charity of the Baltic Herring According to Pollution with Microplastics**
A. Astel, P. Piskula
Pomeranian University in Słupsk, Poland
- 09:50 - 10:05 O-8 Application of Quality by Design in the Optimization of Analytical Protocols for Microplastics Detection in Food**
L. Sforzi, C. Scopetani, S. Santini, C. Sarti, S. Orlandini, T. Martellini, A. Cincinelli
University of Florence, Italy
- 10:05 - 10:20 O-9 Green Analytical Approach for Microplastics in Macroalgae Using μ -Raman Spectroscopy**
D. Rede, G.V. Mirón, V.C. Fernandes, R. Vilarinho, J.A. Moreira, C. Delerue-Matos
Instituto Politécnico do Porto, Portugal
- 10:20 - 10:35 O-10 Green Sample Preparation Using Sorbent Materials Derived from Waste Plastics**
L. Antonelli, M. Bartocci, N. Felli, M.G. De Cesaris, A. Gentili
Sapienza University of Rome, Italy

10:35 - 11:15

Mikis Theodorakis Exhibition Area

Poster Session A

Sponsors Exhibition

Coffee Break

11:15 - 12:40

Mikis Theodorakis: Room A

Oral Session 3: Effects of Pollutants on Human and Ecosystem Health

Chairs: J. Schwarzbauer, N. Fiol

- 11:15 - 11:35 KN-3 Environmental Chemistry and Epidemiology: Essential Synergy for Studying Vulnerable Populations' Exposure to Endocrine Disruptors and Neurotoxic Chemicals**
E.G. Stephanou, A. Myridakis
University of Crete, Greece
- 11:35 - 11:50 O-11 Authenticity and Contamination of the Recently Discovered Chinese Scrolls from the Inner Mongolia**
A.T. Lebedev, O.V. Polyakova, M.S. Kondratieva, Z. Li, V. Artaev, J. Shiel, S. Pugh
Shenzhen MSU-BIT University, China



- 11:50 - 12:05** **O-12 Behind the Shell: Biochemical Biomarkers in Mussels Highlight Heavy Metal Pollution in Galician Waters**
Z. Varela, H. López-Fernández, I.G. Viana, J.Á. Fernández
University of Santiago de Compostela, Spain
- 12:05 - 12:20** **O-13 Characterizing Urban Atmospheric Volatile Organic Compound Pollution in Kazakhstan: from Monitoring to Health Risk Assessment**
O.P. Ibragimova, A. Omarova, K. Tursun, D. Sovetova, B. Bukenov, N. Baimatova
Al-Farabi Kazakh National University, Kazakhstan
- 12:20 - 12:40** **KN-4 Dynamic Flow-through Bioaccessibility Tests for Exposomics of Plastic-borne Additives**
M. Miró, A. Sixto, M. Pons, A. Sahragard
University of the Balearic Islands, Spain

11:15 - 12:40

Mikis Theodorakis: Room B

Oral Session 4: Sensors and Environmental Monitoring

Chairs: E. Rosenberg, S.A. Ozkan

- 11:15 - 11:35** **KN-5 The Rise of Molecularly Imprinted Electrochemical Sensors for Environmental Analysis**
S.A. Ozkan
Ankara University, Turkey
- 11:35 - 11:50** **O-14 Development of a Portable Mass Spectrometer for Pollution Monitoring in the Mediterranean Sea**
D. Vujić, B. Brkić
BioSense Institute, Serbia
- 11:50 - 12:05** **O-15 Characterization of Smell Events in the City of Vienna by Thermal Desorption Gas Chromatography-Mass Spectrometry and Drone-Based Air Sampling**
N. Manousi, F. Wieland, M. Rupprecht, H. Grothe, E. Rosenberg
TU Wien, Austria
- 12:05 - 12:20** **O-16 Chemical and Sedimentological Characterization of Caretta caretta Turtle Nesting Beaches in Italy**
V. Fioramonti, M.T. Berducci, F. Venti, M.C. Magno, G. Pierfranceschi, L. Trigilio, C. Maggi
ISPRA, Italy
- 12:20 - 12:40** **KN-6 Paper-based Electrochemical (Bio)sensors for Sustainable Analyses in the Environmental Sector**
F. Arduini
University of Rome Tor Vergata, Italy

12:40 - 12:45

Mikis Theodorakis: Room A

Group Photo

12:45 – 13:50

Mikis Theodorakis Exhibition Area

Lunch Break

13:20 – 13:50

Mikis Theodorakis: Room B

LECO presentation: “Just for LC-MS Anymore: Exploring Non-polar and Polar PFAS Using Gas Chromatography and High-Resolution Mass Spectrometry”, Tomáš Kovalczuk



13:50 - 14:30

Mikis Theodorakis Exhibition Area

Poster Session B

Sponsors Exhibition

Coffee Break

14:30 - 15:40

Mikis Theodorakis: Room A

Young Researchers Oral Session 1: Advances in Environmental Analysis

Chairs: P. Trebše, N. Manousi

14:30 - 14:40 YO-1 High-resolution Separation and Sensitive Detection of Mixed Halogenated Dioxins, Furans, and Biphenyls using GC×GC-(HR)TOFMS

M. De Poli, A. Rodrigues, S. Panto, G. Scholl, F.A. Franchina, J.-F. Focant
University of Ferrara, Italy

14:40 - 14:50 YO-2 From Synthesis to Application: Magnetic β -Cyclodextrin Nanosponges for Fast and Easy Environmental Water Organic Contaminant Extraction

N. Felli, I. Francolini, L.M. Migneco, A. Gentili
Sapienza University of Rome, Italy

14:50 - 15:00 YO-3 Molecularly Imprinted Polymers Combined with FAPA-MS: A Novel Strategy for Selective Detection of Propylparaben in Environmental Water Samples

A. Lusina, M. Cegłowski
Adam Mickiewicz University, Poland

15:00 - 15:10 YO-4 Prioritisation of Estrogenic Compounds in Wastewater Effluents: Insights from in vitro Bioassays and Non-Target Analysis

M. Salvoch, I. Alvarez-Mora, N. Lopez-Herguedas, B. González-Gaya, M. Irazola, N. Etxebarria
University of the Basque Country, Spain

15:10 - 15:20 YO-5 Comparative Assessment of Emerging Contaminants in Effluents from Three WWTPs Serving Distinct Demographic Areas

A.S. Fernandes, A.R.L. Ribeiro, V. Homem
University of Porto, Portugal

15:20 - 15:30 YO-6 HS-SPME-GC-MS Profiling of Soil VOC Emissions in Response to Chemical Treatments in Cypriot Vineyards

K. Kaikiti, S. Savvides, L. Philippot, M. Omirou, A. Agapiou
University of Cyprus, Cyprus

15:30 - 15:40 YO-7 Identification and Translocation of TNT, RDX, and HMX Degradation Products in Wheat Using LC-MS/MS with ESI and APCI Ionization

I. Sowik, L. Ruzik
Warsaw University of Technology, Poland

14:30 - 15:30

Mikis Theodorakis: Room B

Young Researchers Oral Session 2: Plastics in the Environment

Chairs: S. Lacorte, A. Cincinelli

14:30 - 14:40 YO-8 Metal Sorption on Microplastics in Fluvial and Estuarine Environments: A Case Study from the Basque Country

T. Maupas, M. Gwynne, V. Pellerin, I. Ilkay, J. Jiménez-Lamana, L. Kortazar, S. Reynaud, O. Gómez-Laserna, L.A. Fernández, J.F. Ayala-Cabrera, J.A. Carrero, U. Uribe-Martínez, B. Grassl, A. de Diego
University of the Basque Country, Spain



- 14:40 - 14:50** **YO-9 From Filtration to Degradation: How Surface Morphology Alters Micro Nano-Plastic Reactivity in Aqueous Environments**
A. Hassan, M. Saffioti, L. Carena, D. Vione, D. Fabbri, M. Passananti
University of Turin, Italy
- 14:50 - 15:00** **YO-10 Improving On-Site Screening of Microplastics in Urban Runoff with a Portable Fluorescence Imaging System**
M. Zolyomiova, F. Regan, M. Vázquez
Dublin City University, Ireland
- 15:00 - 15:10** **YO-11 Pollution with Microplastics in Fish According to Habitat Zones and Feeding Features**
P. Piskula, A. Astel
Pomeranian University in Słupsk, Poland
- 15:10 - 15:20** **YO-12 End-of-Life Management of Silicones Through the Incorporation of Dynamic Sulfur–Sulfur Bonds**
M. Rokni, E. Leitao
The University of Auckland, New Zealand
- 15:20 - 15:30** **YO-13 Untargeted Analysis of Plastics During Aging Using GC×GC–MS**
I. Kandylioti, E. Psillakis
Technical University of Crete, Greece

14:30 - 15:40 **Center of Mediterranean Architecture: Room C**

Young Researchers Oral Session 3: Water and Wastewater Treatment

Chairs: L. Ramos, L. Vidal

- 14:30 - 14:40** **YO-14 Sustainable Arsenic Removal from Groundwater Using a Rice Husk/Fe-Oxide Composite and AOP**
S. Chatzimichailidou, M. Xanthopoulou, I.A. Katsoyiannis
Aristotle University of Thessaloniki, Greece
- 14:40 - 14:50** **YO-15 Chromium(VI) Adsorption onto PEI-Modified Silica: Mechanism Insights and Performance Evaluation**
M. Xanthopoulou, A. Charizani, D. Gkiliopoulos, K.S. Triantafyllidis, M. Kostoglou, I.A. Katsoyiannis
Aristotle University of Thessaloniki, Greece
- 14:50 - 15:00** **YO-16 Chromium Ions Removal from Water Using Layer-By-Layer Ultrafiltration Membranes**
N. Malouchi, O. Kotrotsiou, K.V. Plakas, I.A. Katsoyiannis
Aristotle University of Thessaloniki, Greece
- 15:00 - 15:10** **YO-17 Environmental Reactor: A New Engineered System to Study Natural Degradation of Water Contaminants**
A. Kravos, O. Bajt, H. Prosen
University of Ljubljana, Slovenia
- 15:10 - 15:20** **YO-18 Facile and Green Synthesis of MAF-6-derived carbon@ZIF-8 Core-Shell Particles for Tetracycline Removal from Water Samples**
D.R. Sáenz García, G. Turnes Palomino, L.O. Leal Quezada, C. Palomino Cabello
Advanced Materials Research Center, Mexico
- 15:20 - 15:30** **YO-19 First Use of NiFe₂O₄/UVA System to Boost the Efficiency of Hypochlorite for Degradation of Sulfonamides**
A. Madhusudhan, M. Brigante, O. Monfort
Comenius University Bratislava, Slovak Republic



- 15:30 - 15:40** **YO-20 Occurrence and Formation Potential of Regulated and Non-regulated Disinfection by-products (DBPs) from Various Drinking Water Treatment Facilities in Ghana**
I. Osei-Safo, J. Adusei-Gyamfi, D. Azanu, J. Criquet
University of Lille, France

15:40 - 16:20 **Mikis Theodorakis Exhibition Area**
Poster Session C
Sponsors Exhibition
Coffee Break

16:20 - 17:00 **Mikis Theodorakis: Room A**
Young Researchers Oral Session 4: Photochemical and Advanced Oxidation Processes
Chairs: P. Trebše, N. Manousi

- 16:20 - 16:30** **YO-21 Photosensitized Reactions in Atmospheric Water: Model Molecules of Triplet States, Reactivity and Impact on Oxidation Processes**
M. Bretonniere, M. Sarakha, G. Voyard, C. George, M. Brigante
Université Clermont Auvergne, France
- 16:30 - 16:40** **YO-22 Reactive Species-Mediated Phototransformation of Triphenyl Phosphate in Cloud Water**
Y. Wu, F. Wu, M. Brigante, A. Bianco
Université Clermont Auvergne, France
- 16:40 - 16:50** **YO-23 Development of a New Method for Temporal Monitoring of ROS: Understanding their Production Dynamics in AOPs for Water Treatment**
H. Clermont, Y. Zou, G. Mailhot, M. Sleiman
Université Clermont Auvergne, France
- 16:50 - 17:00** **YO-24 A Promising Sustainable Strategy for Water Decontamination Using Immobilized Copper Oxides for the Activation of Sulfite under Visible Light**
W. Wang, F. Wu, G. Mailhot
Wuhan University, China

16:20 - 16:50 **Mikis Theodorakis: Room B**
Young Researchers Oral Session 5: Bioindicators and Bioresource Management
Chairs: S. Lacorte, A. Cincinelli

- 16:20 - 16:30** **YO-25 Beyond the Sea: Freshwater Algae as a Promising Source of Functional Compounds and Ecological Indicators**
Z. Piotrowicz, Ł. Tabisz, B. Łęska, R. Pankiewicz
Adam Mickiewicz University, Poland
- 16:30 - 16:40** **YO-26 Assessment of Pesticide Ecotoxicity Using Multi-Level Biomarkers Through Interspecies Comparison in Gammarids Caged in a Drained Agricultural Catchment**
L. Persat, H. Henine, J. Tournebize, A. Blanchouin, F. Joly, C. Chaumont, V. Archaimbault, R. Nespoulet, M. Wangerméz, J.D. Lebrun
INRAE – UR HYCAR, France



16:40 - 16:50 **YO-27 Chemodiversity of *Pinus sylvestris* Needles as Early Bioindicators of *Panolis flammea* Infestation: Towards Sustainable Forest Pest Management**
K. Rzyńska-Szczupak, L. Sz wajkowska-Michałek, A. Przybylska-Balcerek, R. Kuźmiński, D. Świerk, M. Krzyżaniak, T. Szablewski, R. Cegielska-Radziejewska, K. Stuper-Szablewska
Poznań University of Life Sciences, Poland

16:20 - 17:00 **Center of Mediterranean Architecture: Room C**
Young Researchers Oral Session 6: Monitoring the Changing Environment
Chairs: L. Ramos, L. Vidal

16:20 - 16:30 **YO-28 Long-Term Variation of Trace Metals in the Sediments of Five Portuguese Estuaries**
J.M. Almeida, C. Macedo, P. Félix, A. Brito, C. Palma
Instituto Hidrográfico, Portugal

16:30 - 16:40 **YO-29 Echoes of Change: Tracing Environmental Shifts in Oxbow Sediments**
L. Bellanova, P. Bellanova, J. Schwarzbauer, K. Reicherter
RWTH Aachen University, Germany

16:40 - 16:50 **YO-30 Effects of Thawing Permafrost on Legacy Industrial Sites in the Arctic – Insights from Drilling Mud Sumps in the Mackenzie Delta**
V. Bischoff, J. Wolter, H. Lantuit, M. Langer, J. Strauss, T. Ensom, J. Schwarzbauer
RWTH Aachen University, Germany

16:50 - 17:00 **YO-31 Tracking the Footprints of Fluoroquinolone Resistance Across Global Riverine Hotspots Through a Systematic Metagenomic Approach**
K. Ramesh, P.V. Chellam
National Institute of Technology Agartala, India

19:30 **Bus Transfer to “Nykterida” Restaurant | Departure in front of “Kriti Hotel”**
20:00 **Conference Dinner at Nykterida Restaurant**
(Ticket is Required)



Tuesday, 25 November

9:00 - 10:35

Mikis Theodorakis: Room A

Oral Session 5: Advances in Water and Wastewater Treatment

Chair: D. Fatta-Kassinos, D. Vione

- 09:00 - 09:20 KN-7 Novel Strategies for Hexavalent Chromium Removal from Waters**
I. Katsoyiannis
Aristotle University of Thessaloniki, Greece
- 09:20 - 09:35 O-17 Photocatalytic Activity of Nano ZnO/Poly(ethylene oxide) Composites for Degradation of Dyes**
P. Trebše, A. Anžlovar, M. Raić, S. Stojadinović, E. Žagar, A. Šarić
University of Ljubljana, Slovenia
- 09:35 - 09:50 O-18 Employing Photogenerated Hydrated Electrons to Efficiently Degrade Per- and Poly-Fluoroalkyl Substances (PFAS) From Water in Oxidative-Reductive Treatment Trains**
I. Sciscenko, A. Agüera, P. Plaza-Bolaños, C. Minero, M. Minella
University of Turin, Italy
- 09:50 - 10:05 O-19 Bromide Oxidation in Quaternary Wastewater Treatment**
D. Klauson, E. Lember, J. Jaaku
TTK University of Applied Sciences, Estonia
- 10:05 - 10:20 O-20 Nutrient Removal in a High-Rate Algal Pond: Long-Term Pilot Plant Study**
U. Šunta, D. Istenič, E. Cepec, K. Godič Torkar, A. Krivograd Klemenčič, T. Griessler Bulc
University of Ljubljana, Slovenia
- 10:20 - 10:35 O-21 Cellulose-Based Sorbents Prepared via Aminolysis for the Adsorption of Aqueous Lead(II)**
R.J. Aguado, N. Fiol, Q. Tarrés, M. Delgado-Aguilar
University of Girona, Spain

9:00 - 10:35

Mikis Theodorakis: Room B

Oral Session 6: Air Pollution and Climate Impact

Chairs: E.G. Stephanou, N. Baimatova

- 09:00 - 09:20 KN-8 Time-Zero for Net-Zero CO₂ Emissions: Metal-Organic Frameworks Derivatives for Effective CO₂ Capture**
J.P.S. Sousa, S.P.S. Fernandes
International Iberian Nanotechnology Laboratory, Portugal



- 09:20 - 09:35 O-22 Airborne Pollen as a Vector of Organic Matter into the Oligotrophic Adriatic Sea: Sources and Input Dynamics**
S. Strmečki Kos, A. Milinković, D. Hruševar, S. Sopčić, M. Sudar, D. Crmarić, E. Bura-Nakić, K. Bakrač, B. Mitić
Ruđer Bošković Institute, Croatia
- 09:35 - 09:50 O-23 PM_{2.5}-Bound Polycyclic Aromatic Hydrocarbons and Carbonaceous Species in Urban Areas of Kazakhstan: Sources, Seasonal and Annual Trends**
A. Omarova, O.P. Ibragimova, D. Sovetova, K. Tursun, A. Kashtanov, A. Yakupdzhanov, N. Baimatova
Al-Farabi Kazakh National University, Kazakhstan
- 09:50 - 10:05 O-24 Augmented Machine Learning Model for Environmental Price Prediction of Chemical Emissions**
J. Ferraz-Caetano, M. Paula, A. Nogueira, M. Costa, P. Esteban, G. Ferreira
HOLOSS, Portugal
- 10:05 - 10:20 O-25 Computational Modelling of the Global Warming Potential Climate Metric Across Fluorinated Molecules**
L.P. Viegas
University of Coimbra, Portugal
- 10:20 - 10:35 O-26 Impact of Agricultural Emissions on Rural and Urban Air Quality (IMAGE)**
V. Corona Ramirez, D. O'Connor, S. Hellebust, A. Gilmer, V. Byers, A. Donnelly, E. McGillicuddy
Technological University Dublin, Ireland

10:35 - 11:15

Mikis Theodorakis Exhibition Area

Poster Session D

Sponsors Exhibition

Coffee Break

11:15 - 12:35

Mikis Theodorakis: Room A

Oral Session 7: Green Analytical Chemistry

Chairs: S.A. Ozkan, F. Arduini

- 11:15 - 11:35 KN-9 Extraction of Target Substances by Green Solvents**
L. Vidal, S.J. Abellán, I. Rubio, C. Zapater, M.Á. Aguirre, A. Canals
University of Alicante, Spain
- 11:35 - 11:50 O-27 Good Sample Preparation is Green Sample Preparation. But is Green Sample Preparation Always Good Sample Preparation?**
E. Rosenberg, N. Manousi, A. Korpeti, A. Tsiasioti, M. Ntorkou, V. Samanidou, N. Kalogiouri, A. Kabir
TU Wien, Austria
- 11:50 - 12:05 O-28 Electromembrane Extraction to Enhance Annotation in Suspect Screening of Polar Organic Xenobiotics and Their Metabolites in Human Urine**
M. Musatadi, A. Sahragard, M. Olivares, O. Zuloaga, M. Miró
University of the Basque Country, Spain
- 12:05 - 12:20 O-29 Exploring a Graphene-Based Biosorbent in Microextraction by Packed Sorbent for Food Contaminants Assessment**
R.O. Martins, E. Psillakis, F.M. Lanças
Universidade de São Paulo, Brazil



12:20 - 12:35 **O-30 Tracking Environmental Pollutants in Gilthead Seabream (*Sparus aurata*) and Nile Perch (*Lates niloticus*) by-Products and Protein Hydrolysates**
S. Sousa, V.C. Fernandes, C. Camacho, M. Sapatinha, C. Pires, A. Marques, A.R.A. Ribeiro, M.L. Nunes, V.F. Domingues, C. Delerue-Matos
Polytechnic of Porto, Portugal

11:15 - 12:40

Mikis Theodorakis: Room B

Oral Session 8: Green Chemistry and Circular Approaches

Chairs: D. Mantzavinos, I. Katsoyiannis

11:15 - 11:35 **KN-10 Closing the Loop of Water: Examples and Case Studies of Nature-based Solutions for Water Treatment and Reuse**

A. Stefanakis

Technical University of Crete, Greece

11:35 - 11:50 **O-31 From Waste to Resource: Recovery of Cigarettes Butts for the Synthesis of Cellulose Acetate-Based Sorbent Materials**

M.G. De Cesaris, N. Felli, L. Antonelli, A. Gentili

Sapienza University of Rome, Italy

11:50 - 12:05 **O-32 Biomass-Derived Pyrrole Platforms: A Green Approach to Functional Heterocycles from Reducing Sugars**

S. Koo, H. Kim, L. Gu, S. Cho, I.J. In

Myongji University, Korea

12:05 - 12:20 **O-33 Electrochemical Green Ammonia Production from Nitrate Contaminated Effluents: Heteroatom Doping of Carbon-Based Catalysts**

J. Restivo, J.P.S. Sousa

International Iberian Nanotechnology Laboratory, Portugal

12:20 - 12:40 **KN-11 Advancing Disc-SPE with Buckypaper Technology**

A. Gentili, A. Martinelli, S. Morosetti

Sapienza University of Rome, Italy

12:40 - 13:00

Mikis Theodorakis: Room A

ACE General Assembly

13:00 - 14:00

Mikis Theodorakis Exhibition Area

Lunch Break

25th Birthday of ACE



14:00 - 15:25

Mikis Theodorakis: Room A

Oral Session 9: Advances in Environmental Monitoring

Chairs: J. Schwarzbauer, A.T. Lebedev

- 14:00 - 14:20** **KN-12 Feasibility of Comprehensive Two-Dimensional Gas Chromatography for Suspect and Non-Target Screening of Persistent Organic Pollutants**
L. Ramos
IQOG-CSIC, Spain
- 14:20 - 14:35** **O-34 Application of Mass Spectrometry-Based Methods for the Detection and Quantification of Quorum Sensing Molecules in the Environment**
F. Dal Bello, S. Arpaia, A. Magnani, C. Medana
University of Turin, Italy
- 14:35 - 14:50** **O-35 Analysis of PAHs and UV-Filters in Different Packaging Materials**
N. Ratola, T. Gouveia, F. Domingues, G. Ricardo, J. Morais, V. Homem
University of Porto, Portugal
- 14:50 - 15:05** **O-36 Spatial Distribution and Migration Behavior of Unsymmetrical Dimethylhydrazine Transformation Products in Soils at a Rocket Crash-Landing Site**
N. Baimatova, I. Radelyuk, A. Kashtanov, A. Yakupzhanov, A. Zhumadildinova, A. Zhakupbekova
Toraighyrov University, Kazakhstan
- 15:05 - 15:25** **KN-13 Passive Samplers: A Practical Alternative for Water Quality Assessment**
S. Lacorte, A. Piera, E. Bulatov, J. Silva, M. Laguna
IDAEA-CSIC, Spain

15:25 - 15:40

Mikis Theodorakis Exhibition Area

Coffee Break | Sponsors Exhibition

15:40 - 17:30

Mikis Theodorakis: Room A

Closing Session

Chairs: E. Psillakis, N. Fiol

- 15:40 - 16:20** **PL-03 Confronting Micropollutants and Microbial Resistance: Transforming Wastewater Treatment Plants into Reclaimed Water Facilities for Climate Resilience**
D. Fatta-Kassinos
University of Cyprus, Cyprus
- 16:20 - 17:30** **Closing Ceremony, Awards, Presentation of EMEC26**



Poster Sessions

Location: Mikis Theodorakis Exhibition Area



Poster Session A

Monday, 24 November

10:35-11:15

- PSA-01 Incorporation of Luminescent Metal Organic Frameworks (MOFs) into a GelMA Matrix for Emerging Pollutant Detection**
C. Piccirillo, A. Portone, G. Bicchierai, A. Rossin, F. Gervaso, A. Polini
Istituto di Nanotecnologia, Italy
- PSA-02 From Mine to River: REE Signature in the Pek Basin**
J. Isailović, I. Vulović, S.P. Papalazarou, D. Kostić, A. Bujanja, S. Stopić
Mining Institute Ltd. Belgrade, Serbia
- PSA-03 Environmental Occurrence and Antimicrobial Resistance Potential of Carbapenems – Last-Resort Antibiotics**
V. Kisielius, A. Martinez i Qer, A. Johansen, P.N. Carvalho
Aarhus University, Denmark
- PSA-04 From Suspect to Target Screening Analysis: Monitoring of Three Antidepressant Drugs in Surface Waters of Northern Italy**
A. Magnani, S. Arpaia, C. Medana, F. Dal Bello
University of Turin, Italy
- PSA-05 Dissolved Rare Earth Elements in Water of Zagreb Urban Streams: EUS-normalization, Gd-anomaly and Selected Nanoparticles**
Z. Kiralj, M. Lučić, K. Bogdan, K. Narančić, A. Gotovac, T. Kralj, Ž. Fiket, M.S. Perić, Z. Dragun
Ruđer Bošković Institute, Croatia
- PSA-06 Vertical Accumulation of Mining Contaminants in a Dryland River: Core Evidence from the Loa, Northern Chile**
P.A. Pérez, W. Quiroz, P. Echeveste
Universidad Católica del Norte, Chile
- PSA-07 Long-term Temporal Trends of Heavy Metal Accumulation in Soils of the Lodz Region, Central Poland**
M. Szykowska-Jozwik, D. Kryszczak, M. Szczesio, A. Pawlaczyk, J. Albińska
Lodz University of Technology, Poland
- PSA-08 Tracing Pollution: A Case Study of Soil and Vegetation Responses Around Industrial Waste Landfills**
A. Pawlaczyk, M. Smarzyk, M. Zaborowski, D. Kryszczak, M.I. Szykowska-Jóźwik
Lodz University of Technology, Poland
- PSA-09 A Chemometric Approach to Detect Adulteration and Food Quality: The Role of Multi-Elemental Analysis in Safety, Traceability and Authenticity Studies**
A. Pawlaczyk, A. Szczecińska, M.I. Szykowska-Jóźwik
Lodz University of Technology, Poland
- PSA-10 Optimization and Miniaturization of Parameters for the Determination of Jet Fuel in Soil by GC-MS with SPME**
M. Alimzhanova, B. Abdykarimov, Y. Syrgabek
Al-Farabi Kazakh National University, Kazakhstan
- PSA-11 Composition of Petroleum Hydrocarbons and Technical Additives in Drilling Waste buried in Permafrost Soils**
V. Bischoff, J. Wolter, H. Lantuit, M. Langer, J. Strauss, J. Schwarzbauer
RWTH Aachen University, Germany



- PSA-12** **Development and Optimization of an Analytical Method for the Determination of Fluoroquinolones in Sediments**
D. Pereira, L. Maia, A. Gorito, A.R.L. Ribeiro
University of Porto, Portugal
- PSA-13** **Pyrrolizidine Alkaloids in Teas and Herbal Infusions: A Multi-Country Survey by LC-MS/MS**
A. Sousa, D. Pereira, C. Ribeiro, A.R.L. Ribeiro, V.M.F. Gonçalves, I. Pádua, S. Leal
University Institute of Health Sciences - CESPU, Portugal
- PSA-14** **In Vivo and Ex Vivo Monitoring of Volatile Profile in Tomato Leaves**
A. Pateraki, P. Kalaitzis, M. Sampathianaki, E. Psillakis
Technical University of Crete, Greece
- PSA-15** **Solid-Phase Microextraction for In Vivo and Ex Vivo Analysis of Avocado During the Preharvest Period**
A. Pateraki, P. Kalaitzis, E. Anagnostou, E. Psillakis
Technical University of Crete, Greece
- PSA-16** **Vacuum-Assisted Headspace Thin-Film Microextraction (Vac-HS-TFME) of Selected Pesticides from Food Matrices**
R.O. Martins, F.M. Lanças, E. Psillakis
Universidade de São Paulo, Brazil
- PSA-17** **Optimized Extraction of Neonicotinoids and their Metabolites from Honey Bee Matrices**
N.M. Zarić, R. Pavlovic, D. Ruso, R. Schuhmacher
University of Natural Resources and Life Sciences Vienna, Austria
- PSA-18** **Application of Green and White Analytical Chemistry Principles in UHPLC Using Dimethyl Carbonate as Mobile Phase Modifier**
O. Kalisz, S. Bocian
Nicolaus Copernicus University, Poland
- PSA-19** **Development and Validation of a UHPLC–MS/MS Method for Detecting Quorum Sensing Molecules in Environmental**
S. Arpaia, A. Magnani, C. Medana, F. Dal Bello
University of Turin, Italy
- PSA-20** **Investigation of Extractable Organic Fluorine (EOF) Determination Using High-Resolution Continuum Source Graphite Furnace Molecular Absorption Spectrometry with Calcium Monofluoride as a Target Molecule**
Z. Kowalewska, V. Müller, J. Feldmann
Warsaw University of Technology, Poland
- PSA-21** **Mixed Micelles System in Cloud Point Extraction for Determination of Vanadium(V) and Molybdenum(VI)**
J. Šandrejová, A. Gajdošová, V. Divarova, K. Gavazov
Pavol Jozef Šafárik University in Košice, Slovakia
- PSA-22** **Determination of Iron by Pipette-Tip Micro-Solid Phase Extraction Followed by UV-Vis Detection**
V. Andruch, V. Oltmanová, S. Zaruba
Pavol Jozef Šafárik University in Košice, Slovakia
- PSA-23** **Paper-Based Sensor for Fluoride Detection in Environmental Water**
E. Asein, P. Giménez-Gómez, N. Pamme
Stockholm University, Sweden
- PSA-24** **Sustainable Fluorescent Carbon Dot Sensor from Sheep Wool for Hg(II) Detection Via Smartphone Readout Using a 3D-printed System and Agarose Hydrogel**
D.R. Sáenz García, M.A. Vargas Muñoz, E. Palacio
University of the Balearic Islands, Spain



- PSB-01** **Determination of Heavy Metal Content in Fish from the Montenegrin Coast and the Impact of Health Risks on Humans**
Ž. Jaćimović, N. Bošković, D. Joksimović
University of Montenegro, Montenegro
- PSB-02** **Influence of PFOA on the Respiration of Microorganisms Tolerant to High PFAS Concentrations**
B. Lončarević, A. Žerađanin, M. Lješević, N. Petronijević, K. Kasalica, K. Joksimović, V. Beškoski
University of Belgrade, Serbia
- PSB-03** **Levels of Essential and Toxic Trace Elements in Breast Milk from Urban and Agricultural Regions of Rondônia, Western Brazilian Amazon**
M. Turull, M. Cunha, J.R.D. Gimarães, R.C. Marques, S. Díez
IDAEA-CSIC, Spain
- PSB-04** **Monitoring Human Exposure to Toxic Elements through Wastewater-Based Epidemiology in an Urban Area: Influence of Socioeconomic Status**
M. Turull, S. Díez
IDAEA-CSIC, Spain
- PSB-05** **Development and Validation of IC-ICP-MS Method for Arsenic Speciation and Total Content in Human Hair: Study in a Northern Chilean Population**
P.A. Pérez, B. Gonzalez, C. Torres, W. Quiroz
Universidad Católica del Norte, Chile
- PSB-06** **From Desert to Lungs: Health Risks of Saharan Dust Composition and Oxidative Potential**
E. Souza, K.W. Fomba, G. Bredeck, R. Schins, H. Herrmann
Leibniz Institute for Tropospheric Research, Germany
- PSB-07** **Tracing Potentially Toxic Elements in Mangroves: From Sediment Bioavailability to Plant Uptake**
G.S. Lima, L.P. Elias, A.A. Menegário
São Paulo State University, Brazil
- PSB-08** **Elemental Transfer and Distribution Across Honey Bee Life Stages and Tissues**
N.M. Zaric, W. Goessler, R. Brodschneider, L. Stanisavljevic, R. Pavlovic
University of Natural Resources and Life Sciences Vienna, Austria
- PSB-09** **Prey-Predator Interactions Disrupted by a Fungicide (Boscalid) and an Insecticide (Imidacloprid) at Environmentally Realistic Concentrations: The Case of Gammarus–Holocentropus Pair**
J.D. Lebrun, L. Persat, A. Blanchouin, F. Joly, V. Archaimbault, J. Tournebize, H. Henine
Université Paris-Saclay, France
- PSB-10** **Cats as Sentinels for Endocrine Disruptors in the Human Home Environment**
S. Sousa, T.B. Gaspar, I. Boaventura, I. Borges, C. Delerue-Matos, P. Soares, V.F. Domingues
Politécnico do Porto, Portugal
- PSB-11** **From Sand to Sea: a Preliminary Study to Understand Environmental Drivers of Turtle Nesting**
V. Fioramonti, M.T. Berducci, F. Venti, M.C. Magno, G. Pierfranceschi, L. Trigilio, C. Maggi
ISPRA, Italy



- PSB-12** **Limitations of Alkali Leaching in Coal Purification: A Case Study of the Bogovina Basin**
K. Pantović Spajić, M. Pantović Pavlović, I. Mikavica, M. Sokić, N. Vuković, M. Pavlović, B. Marković
Institute for Technology of Nuclear and Other Mineral Raw Materials, Serbia
- PSB-13** **Cleaner Fuel from Coal: Chemical Leaching as a Tool for Environmental Risk Reduction**
K. Pantović Spajić, I. Mikavica, A. Dimitrije, M. Mišić, M. Spasojević, K. Božić, M. Pantović Pavlović
Institute for Technology of Nuclear and Other Mineral Raw Materials, Serbia
- PSB-14** **CRAWL: Linking Air Quality and Walkability in University Living Labs for Sustainable Urban Futures**
R.M. Brady, V. Corona Ramirez, L. D'Arcy
Technological University Dublin, Ireland
- PSB-15** **Competing Pathways of Aldehyde Formation in the Atmospheric Degradation Mechanism of n-Butyraldehyde**
A. Shiroudi, J. Czub
Gdańsk University of Technology, Poland
- PSB-16** **The Hidden Costs of PM_{2.5}-attributable Air Pollution in Kazakhstan's Urban Centers**
N. Baimatova, I. Radelyuk, A. Muratuly
Al-Farabi Kazakh National University, Kazakhstan
- PSB-17** **Mobile Air Monitoring in Agricultural Settings (MAMALS)**
V. Corona Ramirez, D. Venables, D. O'Connor, A. Gilmer, P. Goodman, J.M. Frias Celayeta, M. Fennelly, M. Wang, A. Donnelly, E. McGillicuddy
Technological University Dublin, Ireland
- PSB-18** **Smoke Without Numbers: The Duboko, Serbia Landfill Fire and the Absence of Dioxins and Furans Monitoring**
B. Jovančičević, O. Tešović, N. Radović, Ž. Nikolić, K. Stojanović
University of Belgrade, Serbia
- PSB-19** **Assessment of the Origin and Geological History of Peloids from Serbian Spas**
B. Jovančičević, I. Brčeski, A. Šajnović, G. Gajica, N. Burazer, Z. Nikolovski, P. Dabić
University of Belgrade, Serbia
- PSB-20** **Behavior of Phenanthrene and Alkylated Derivatives during Peloid Maturation and Potential Dermal Exposure Risks: Insights from Six Serbian Spas**
T. Miličević, G. Gajica, N. Burazer, E. Vukičević, J. Roganović, T. Mutić, G. Veselinović
University of Belgrade, Serbia
- PSB-21** **Peloids from Serbian Spas – Element Concentrations and Human Health Risk Assessment**
T. Miličević, T. Mutić, E. Vukičević, J. Roganović, G. Veselinović, N. Burazer, G. Gajica
University of Belgrade, Serbia
- PSB-22** **Composition and Therapeutic Properties of Peloids from Different Regions of Serbian Spas**
G. Gajica, E. Vukičević, J. Roganović, N. Burazer, G. Veselinović, T. Miličević, T. Mutić
University of Belgrade, Serbia
- PSB-23** **Mineralogical Variability of Serbian Spa Peloids in Relation to Geological Substrate**
G. Gajica, J. Roganović, N. Burazer, G. Veselinović, E. Vukičević, T. Mutić, M. Kašanin-Grubin
University of Belgrade, Serbia
- PSB-24** **The Influence of Maturation Processes on the Distribution of Heavy Metals in Serbian Peloids (Vranje, Bujanovac and Koviljača Spas)**
Z. Nikolovski, A. Šajnović, G. Gajica, I. Brčeski, B. Jovančičević
University of Belgrade, Serbia



Poster Session C

Monday, 24 November

15:40-16:20

- PSC-01 Biobased Aerogels for Waste Water Treatment**
C. Cassino, C. Francia, V.C. Ababei, L. Marchese, G. Paul
University of Piemonte Orientale, Italy
- PSC-02 Nutrient Recovery and Contaminant Presence in Microalgal-Based Biomass from Wastewater Treatment**
U. Šunta, D. Istenič, E. Cepec, E. Andreasidou, E. Heath, A.K. Klemenčič, T.G. Bulc
University of Ljubljana, Slovenia
- PSC-03 Systematic Investigation of the Adsorption and In Situ Regeneration of Different Granular Activated Carbon Materials by Fenton-type Advanced Oxidation Processes**
A. Charizani, N. Malouchi, K. Plakas, I. Katsoyiannis
Aristotle University of Thessaloniki, Greece
- PSC-04 Valorisation of Acid Mine Drainage and Rock Mining Waste by Adsorption of Heavy Metals on Modified Clays**
J. Restivo, J.P.S. Sousa
International Iberian Nanotechnology Laboratory, Portugal
- PSC-05 Design of Eco-Friendly Freeze-Dried Polymeric Materials with a View to Sustainable Water Management**
W. Walendziak, T.E.L. Douglas, J. Kozłowska
Nicolaus Copernicus University in Toruń, Poland
- PSC-06 Giving Eggshells a Second Life: A Waste-to-Value Approach to Cocoa Butter Substitutes**
M. Ostojčić, M. Stjepanović, B.B. Rajs, I. Strelec, N. Velić, S. Budžaki
Josip Juraj Strossmayer University of Osijek, Croatia
- PSC-07 Metal–Organic Frameworks for Efficient Arsenic Removal in Natural Groundwater Samples**
Ž. Jaćimović, M. Milić, B. Dojčinović, B. Antić
University of Montenegro, Montenegro
- PSC-08 Toward Sustainable Recovery of Rare Earth Elements: Sorption of Nd(III) and Er(III) on Poly-o(aminophenol) Resin**
F. Algarni, E.A. Elshehy, M. Kashif, W.A. El-Said
University of Jeddah, Saudi Arabia
- PSC-09 Sustainable Biocatalyst Development for Oil-Contaminated Wastewater Pretreatment: Immobilized Lipase on Eggshell-Derived Carriers**
M. Stjepanović, N. Velić, M. Ostojčić, I. Strelec, S. Budžaki
Josip Juraj Strossmayer University of Osijek, Croatia
- PSC-10 Functionalized Cellulose Nanocomposite Membranes for CO₂ Capture**
N. Fiol, G.A. Bastida, R.J. Aguado, M.À. Pèlach, M. Delgado-Aguilar, Q. Tarrés
Universitat de Girona, Spain
- PSC-11 Cork Stoppers in Vertical Gardens for Winery Wastewater**
N. Fiol, L.X. Lin, I. Villaescusa, M. Verdum, P. Jové
Universitat de Girona, Spain
- PSC-12 Application of Fireproof Coatings in Wood Substrates**
C.S.N. Gomes, J.P.S. Sousa
International Iberian Nanotechnology Laboratory, Portugal



- PSC-13** **Calcined Calcium–Silicate Rock as a Sustainable Material for Phosphorus Removal: Properties and Applications**
E. Svedaite, K. Baltakys, T. Dambrauskas
Kaunas University of Technology, Lithuania
- PSC-14** **Chemical Recycling of Polycarbonate Using Metal–Organic Frameworks (MOF) as Catalysts**
P. Jutrzenka Trzebiatowska, M. Gazda, A. Zaleska-Medynska
University of Gdansk, Poland
- PSC-15** **Green Solvent-Based Recycling of Riverine Plastic Waste**
P. Jutrzenka Trzebiatowska, E. Gontarek-Castro, A. Malankowska, E. Głowińska
University of Gdansk, Poland
- PSC-16** **Valorization of Used Cooking Oil by Obtaining a Functional Liquid Soap Enriched with Natural Extracts**
M.D. Ionica, A.V. Botezatu, A. Busuioc, A.M. Ionescu, A. Iancu, F. Bălănescu, B. Furdui, R.M. Dinică
Dunarea de Jos University of Galati, Romania
- PSC-17** **Functionalization of Nanocellulose for Heavy Metal Removal**
R.J. Aguado, G. Signori-lamin, Q. Tarrés, N. Fiol
University of Girona, Spain
- PSC-18** **Improving the Extraction of Polyphenols and Flavonoids from Medicinal Plants with Natural Deep Eutectic Solvents**
R.M. Dinică, A.M. Ionescu, A.V. Botezatu, C. Vânătoru, B. Furdui, A.M. Mocanu
Dunarea de Jos University of Galati, Romania
- PSC-19** ***Sideritis Scardica*: Extraction of Biologically Active Compounds Using Green Chemistry Methods**
A.M. Ionescu, A.M. Mocanu, A.V. Botezatu, C. Vânătoru, B. Furdui, R.M. Dinică
Dunarea de Jos University of Galati, Romania
- PSC-20** **Environmentally Friendly Ultrasound-Assisted Synthesis of Substituted Quaternary Pyridinium Salts and Indolizines**
A.V. Botezatu, B. Furdui, A. Tăbăcaru, A. Busuioc, F. Bălănescu, R.M. Dinică
Dunarea de Jos University of Galati, Romania
- PSC-21** **Hydrogen Fuel Cells and Lithium-Ion Batteries**
S. Khalid, A. Hussain, Y. Abghoui
Science Institute of the University of Iceland, Iceland
- PSC-22** **Powering the Future: A Comprehensive Review of the Bisha Battery Energy Storage System and Its Role in Saudi Arabia’s Renewable Energy Transition**
R.A. Althobiti
University of Bisha, Saudi Arabia
- PSC-23** **Green Recycling of Lithium-Ion Batteries via Levulinic Acid Leaching: Sustainable Recovery of Critical Metals**
K. Charzewska, A. Bukowska, J. Piątek, W. Zając
Krakow Institute of Technology, Poland
- PSC-24** **Selective Copper and Manganese Electrodeposition for Lithium-ion Battery Recycling**
A. Bukowska, K. Charzewska, J. Piątek
Krakow Institute of Technology, Poland



- PSD-01 Synthetic Strategies for Tunable Silica Nanoparticles in Water Remediation Application**
F. Tescione, B. Silvestri, G. Del Monaco, V. Califano
Institute of Polymers, Composites and Biomaterials of National Research Council, Italy
- PSD-02 Nanostructured Fluorapatite as a Multifunctional Material for Environmental Protection Solutions**
D. Milojkov, V. Živković-Radovanović, G. Jovanović, M. Bugarčić, I. Mikavica
Institute for Technology of Nuclear and other Mineral Raw Materials, Serbia
- PSD-03 Luminescent Multi-Iron Oxide Composite for Efficient Photocatalytic Decontamination of a Broad Spectrum of Pollutants in Aqueous Solutions**
D. Milojkov, V. Živković-Radovanović, A. Mraković, G. Jovanović, N. Vuković, D. Mutavdžić
Institute for Technology of Nuclear and other Mineral Raw Materials, Serbia
- PSD-04 AC/SC – Back to Black: Activated Carbons from Spent Coffee Grounds for Wastewater Filtration**
I. Block, A. Taubert
University of Potsdam, Germany
- PSD-05 Unravelling the Dual Photocatalytic Behavior of Highly Luminescent Auln Nanoclusters for Degradation of 4-Nitrophenol and Dye Pollutants**
A. Bharti, R.K. Sharma
Panjab University, India
- PSD-06 How UVC-Irradiated Nanodiamonds Drive PFAS Degradation? A Fundamental Study**
I. Sciscenko, L. Mino, F. Picollo, S. Sturari, M. Minella
University of Turin, Italy
- PSD-07 Green Solutions: Sustainable Photocatalytic Coatings for Dye Degradation Under Simulated Solar Light**
M. Marny, D. Simedru, J. Michalska, E. Felis, P. Sowik
Silesian University of Technology, Poland
- PSD-08 Visible-light Activation of Persulfate vs. Peroxymonosulfate for Antibiotic Degradation in Environmental Matrix**
P. Sowik, N. Krzywda, K. Kowalska, E. Felis
Silesian University of Technology, Poland
- PSD-09 Effectiveness of *In Situ* Disinfection of Hospital Wastewater for the Removal of Last-Chance Carbapenems**
J. Wilk, S. Bajkacz
Silesian University of Technology, Poland
- PSD-10 Direct Photolysis of Tiapride in Water: Deep Insights into Desulfonation Reaction**
M. Sarakha, S. Bertolotti, D. Mamadou, G. Voyard, S. Fenoglio, L. Carena, M. Brigante, M. Minella
Université Clermont Auvergne, France
- PSD-11 The Kinetics of the Fenton-Like Reaction with Saturated C2-C6 Dicarboxylic Acids under Cloud Conditions**
E. Poschart, N. Taherkhali, D. Firak, T. Schaefer, H. Herrmann
Leibniz Institute for Tropospheric Research, Germany
- PSD-12 Photocatalytic Hydrogen Production from Organic Compounds over Fe-Pt/TiO₂ Catalyst**
K. Bednarczyk
Lodz University of Technology, Poland



- PSD-13** **Aqueous Synthesis of $\text{Cu}_{0.8}(\text{In}_{0.7}\text{Ga}_{0.3})\text{Se}_2$ and Screen-Printing Photovoltaic Cells on Textile Substrates**
J.P.S. Sousa, J. Rodrigues
International Iberian Nanotechnology Laboratory, Portugal
- PSD-14** **Activation of Persulfate by Biochar: Optimization of Conditions for Efficient Degradation of Simazine and Atrazine in Water**
T. Marjanović Srebro, N. Đukanović, T. Apostolović, J. Anojčić, S. Mutić, J. Beljin
University of Novi Sad, Serbia
- PSD-15** **Biochar Derived from Corn Cob, Wheat Straw, and Hardwood: A Sustainable Solution for Simazine and Atrazine Removal from Water**
N. Đukanović, T. Marjanović Srebro, T. Apostolović, J. Anojčić, S. Mutić, S. Maletić, J. Beljin
University of Novi Sad, Serbia
- PSD-16** **Redox Speciation of Copper and Investigation of Labile and Inert Copper Fractions in an Estuarine System: Towards Better Understanding of Copper Water Chemistry**
D. Crmarić, N. Stipanović, E. Bura-Nakić
Ruđer Bošković Institute, Croatia
- PSD-17** **Photodegradation of the UV Filter Ethylhexyl methoxycinnamate with Persulfate under UVC Light**
P. Trebše, A. Pečet, D. Heath, A.T. Lebedev, N. Uljanovskii
University of Ljubljana, Slovenia
- PSD-18** **Impact of Photodegradation on the Ecotoxicological Profile of PFOA**
M. Lješević, K. Kasalica, N. Radić, B. Lončarević, K. Joksimović, A. Žerađanin, V. Beškoski
University of Belgrade, Serbia
- PSD-19** **Monitoring of Microplastics in Surface and Drinking Water in Barcelona According to Decision (EU) 2024/1441**
M.R. Boleda, J. Dalmau-Solera, S. Lacorte
Aigües de Barcelona, Spain
- PSD-20** **Degradation of Microplastics under UV-C light: Modifications in the Functional Groups Studied by ATR-FTIR and 2D-COS**
M. Olazabal, L. Kortazar, A. Gredilla, L.A. Fernandez
University of the Basque Country, Spain
- PSD-21** **Interaction of Cadmium, Cobalt, Lead, and Antimony with PET Microplastics**
M. Olazabal, W. Sejas, T. Maupas, A. Gredilla, J.A. Carrero, A. de Diego
University of the Basque Country, Spain
- PSD-22** **Interactions of Polystyrene Microplastics with Organic Substances and Biofilms**
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