



4. INTERNATIONAL ENVIRONMENTAL CHEMISTRY CONGRESS

30 October - 02 November 2022 ANTALYA TURKIYE

ENVIROCHEM 2022 CONGRESS PROGRAMME

October 30, 2022, Sunday

13:00-18:00 Registration		Registration Desk
18:00-19:00	WORKSHOP Scientific Writing - Part I Prof. Dr. Eric LICHTFOUSE	
19:00-20:00	Dinner	
20:00-21:00	WORKSHOP Scientific Writing - Part II Prof. Dr. Eric LICHTFOUSE	

October 31, 2022, Monday

09:00-09:40	OPENING CEREMONY Mirage I
	Session 1 – Chair: Prof. Dr. Hasan KÜÇÜKBAY Mirage I
09:40-10:20	Invited Speaker 1 (IS 1) Prof. Dr. ERIC LICHTFOUSE Recent Trends in Environmental Chemistry Research
10:20-10:40	Coffee Break
	Session 2 – Chair: Prof. Dr. Münevver SÖKMEN Mirage I
10:40-11:20	Invited Speaker 2 (IS 2) Prof. Dr. ELIA PSILLAKIS Littered Cigarette Butts: A Small-Sized Waste Creating Big-Sized Problems
11:20-11:35	BUSE TUĞBA ZAMAN (OP 1) Simultaneous Determination of 29 Endocrine Disruptor Compounds-Pesticides in Rock, Soil, Water, Moss and Feces Samples from Antarctica Using Simple and Effective Fine Droplet Formation Based Spray Assisted Liquid Phase Microextraction Prior to Gas Chromatography-Mass Spectrometry
11:35-11:50	KATYA PEYCHEVA (OP 2) Macro and trace elements profile of Black Sea bivalve species <i>Mytilus galloprovincialis</i> , <i>Chamelea gallina</i> and <i>Donax trunculus</i>
11:50-12:05	CANDAN ERYILMAZ (OP 3) Effects of Chemical Agents on the Production of Adsorbents from Bituminous Coal for the Removal of Phenol from Wastewater
12:30-14:00	Lunch /Poster Hanging

	Session 3 – Chair: Prof. Dr. Irina KARAJOVA	Mirage I
14:00-14:40	Invited Speaker 3 (IS 3) Prof. Dr. SEZGİN BAKIRDERE Nanoflowers and Magnetic Nanoparticles in Analytical and Environmental Chemistry	
14:40-14:55	GAMZE DALGIÇ BOZYIĞİT (OP 4) Development of a Switchable Solvent Based Liquid Phase Microextraction Method for the Simultaneous Determination of Selected Nervous System – Active Pharmaceutical Ingredients by Gas Chromatography Mass Spectrometry	
14:55-15:10	MERIEEM SAADOUNI (OP) Removal of Organic Dyes of Finishing and Dyeing Industrial Units by Transformed Technical Textile Fiber	
15:10-15:25	Coffee Break	
	Session 4 – Chair: Prof. Dr. Sezgin BAKIRDERE	Mirage I
15:25-15:40	NURSU AYLIN KASA (OP 5) Magnetic Nanofluid based Microextraction Strategy for Cadmium Determination in Rosemary and Eucalyptus Tea Extracts	
15:40-15:55	MURAD ABUALHASAN (OP 6) Evaluation of Heavy Metals and Microbiological Contamination of Selected Herbals from Palestine	
15:55-16:10	GULGUN ALYAZ (OP 7) Development of Gravimetric Nanosensor for Equilin Detection	
16:10-16:25	ZAIB UN NISA MUGHAL (OP 8) Electrochemical sensor based on molecular imprinted polymer/salinized graphene oxide composite for detection of 17 β Estradiol from wastewater samples	
16:25-16:40	Coffee Break	
	Session 5 – Chair: Prof. Dr. Ayşe Müge ANDAÇ	Mirage I
16:40-17:30	SHORT ORAL PRESENTATIONS	Mirage I
17:30-19:00	POSTER PRESENTATIONS (PP 1 - PP 22)	Mirage II
19:30	Dinner	

November 1, 2022, Tuesday

	Session 6 – Chair: Prof. Dr. Elia PSILLAKIS	Mirage I
09:00-09:40	Invited Speaker 4 (IS 4) Prof. Dr. AYSUN SOFUOĞLU POPs, and Synthetic Musks in Indoor and Ambient Air of Turkey	
09:40-09:55	RAJI YOSRA (OP) Ecological Extraction and Dyeing of Wool with a Natural Dye Reseda Luteola from Morocco and Its Antibacterial Effectiveness	
09:55-10:10	SEDA KILIC (OP 9) Source Identification of Polycyclic Aromatic Hydrocarbons (PAHs) in Surface Sediment Samples in the Golden Horn, İstanbul	
10:10-10:25	HAKAN SERBEST (OP 10) Development an Analytical Method for the Determination of Silver in Metal Plating Wastewater by Magnetic Nanoparticle Based Dispersive Solid Phase Microextraction-Slotted Quartz Tube-Flame Atomic Absorption Spectrometry	
10:25-10:40	Coffee Break	
	Session 7 – Chair: Prof. Dr. Halim Aytekin ERGUL	Mirage I
10:40-11:20	Invited Speaker (IS) Assoc. Prof. Dr. SAVAŞ KAYA Conceptual Density Functional Theory Based Applications in Toxicity Analysis	
11:20-11:35	HATİCE KILINC (OP 11) Anthropogenic and biogenic volatile organic compound concentrations and indoor air quality in working places in Bolu	
11:35-11:50	EFE SİNAN AYDIN (OP 12) Preconcentration of Manganese by Magnetic Colloidal Gel based Dispersive Solid-Phase Extraction Method	
11:50-12:05	SIMONA GAVRILAS (OP 13) The Influence of Both Elevated Carbon Dioxide and Drought on Plants Polyphenols	
12:30-14:00	Lunch	
	Session 8 – Chair: Prof. Dr. Eric LICHTFOUSE	Mirage I
14:00-14:40	Invited Speaker 5 (IS 5) Assoc. Prof. Dr. SELMA AYAZ Development of Methodologies and Case Studies on the Assessment and Improvement of the Water Quality of the Turkish' River Basins	

14:40-15:05	SUDE OFLU (OP 14) High Accuracy Determination of Trace Levels of Metobromuron by Gas Chromatography Mass Spectrometry After its Preconcentration by Dispersive Liquid Phase Microextraction	
15:05-15:20	ISKANDER GILMANSHIN (OP) Approbation of the Universal Limno-Ecological Classification on the Lakes of Russia and Turkey	
15:20-15:35	Coffee Break	
	Session 9 – Chair: Prof. Dr. Krastena NIKOLOVA	Mirage I
15:35-15:50	ABDELKADER DEBAB (OP) Wastewater reuse in Algeria	
15:50-16:05	DUYGU ADIGUZEL (OP 15) Investigation of Purification of an Aqueous Solution Containing Salt and Boric Acid by Electrodialysis with Bipolar Membrane	
16:05-16:20	ZEYNEP CEYLAN (OP) Effect of Waste Sludge from Erzurum Biological Sewage Treatment Plant on Physiological and Biochemical Parameters in Birch (<i>Betula pendula</i> Roth.) Seedlings	
16:20-16:35	AYÇA GIRGIN (OP 16) Cyanide Detection with UV-Vis Spectrophotometer Based on the Colorimetric Detection by Using Silver Nanoparticles	
16:35-16:50	MELTEM ŞAYLAN (OP 17) CoSn(OH) ₆ Nanocube Based Dispersive Solid Phase Extraction for the Sensitive Determination of Lead Ions in Environmental Samples by Flame Atomic Absorption Spectrometry	
16:50-17:05	Coffee Break	
	Session 10 – Chair: Assoc. Prof. Dr. Katya PEYCHEVA	Mirage I
17:05-17:20	NAZİME EBRAR KARLIDAĞ (OP 18) Poly(vinyl alcohol) Magnetic Hydrogel based Dispersive Solid Phase Extraction Method for the extraction/preconcentration of Cobalt From Chamomile Tea Samples Prior to Flame AAS	
17:20-17:35	SEZİN ERARPAT (OP 19) Chromium Speciation in Soil, Water and Grass Samples by HPLC-ICP-OES	
17:35-17:50	SALAH AKKAL (OP) LC-MS/MS profiles of bioactive compounds, antioxidant activity of <i>Nicotiana glauca</i> extracts	
18:15-19:00	POSTER PRESENTATIONS (PP 23 - PP 44)	Mirage II
19:30	Dinner	

November 2, 2022, Wednesday

	Session 11A – Chair: Prof. Dr. Nigar ALKAN	Mirage I	Session 11B – Chair: Assoc. Prof. Dr. Elmina GADIROVA	Odeon
09:00-09:15	ZEYNEP EREN (OP 20) Fate Analysis of Some Micropollutants in Erzurum Biological Wastewater Treatment Plant by Using Toxchem Modelling Method		PINAR SEVİM ELIBOL (OP 23) New Type of Synthetic Graphite Synthesis Originated from Low-Grade Coal for Effective Removal of Nonylphenol Ethoxylates	
09:15-09:30	AHMET MUSTAFA TEPE (OP 21) The Use of Maquis as Bio-monitors in Air Pollution Monitoring: The Case Study of Antalya		BEYZANUR YAZICI (OP 24) Invasive Biofouling Marine Species in the Izmit Bay	
09:30-09:45	MELEK GUCOGLU (OP 22) Sensitive and Selective Spectrophotometric Determination of Cyanide by a New Benzothiazole Compound		HATİCE KARADENİZ (OP 25) Evaluation of chemical composition and source apportionment of fractional rain samples collected in urban and semi-urban sites of Bolu	
09:45-10:00	ZEYNEP CEYLAN (OP) Investigation of the Effect Atmospherically Transported Desert Dust on pm 2.5 – pm 10 Values Using HYSPLIT Back Trajectory Model in Erzurum Turkey		NEŞE ULAR CAGATAY (OP 26) Determination of steroid hormones in artificial serum samples by coupling Fe ₃ O ₄ /reduced graphene oxide nanocomposites based dispersive solid phase microextraction to LC-MS/MS	
10:00-10:15	Coffee Break			
	Session 12A – Chair: Prof. Dr. Zehra KÜÇÜKBAY	Mirage I	Session 12B – Chair: Assoc. Prof. Dr. Savaş KAYA	Odeon
10:15-10:30	NIHAD CHAKRI (OP) Integrated wastewater reuse project of the Faculty of Sciences AinChock- Morocco		EMİNE METE (OP) Investigation of UV protective properties and hydrophobicity of LDHs	
10:30-10:45	TİMUR TONGUR (OP 27) Efficient Removal of Acetaminophen (Paracetamol) and Diclofenac from Aqueous Solutions by Adsorption onto Activated Carbon Cloth		TÜLAY BORAHAN (OP 30) Determination of Cadmium in Lake Samples Using an Effervescence Tablet Assisted Dispersive Solid Phase Extraction	

10:45-11:00	TUNA DEMIRCI (OP 28) Research of Amino Triazole Chitosan-Based Biopolymers' Platinum Group Metals (PGMs) Recovery Capacity	HALİM AYTEKİN ERGUL (OP 31) Removal of Gaseous Styrene by Biotrickling Filter
11:00-11:15	DOTSE SELALI CHORMEY (OP 29) Preconcentration of Endocrine Disruptor Phenolic Compounds using Switchable Solvent based Microextraction for the Determination by GC-MS and Assessment of Green Profile	ÜMMÜĞÜLSÜM POLAT KORKUNC (OP 32) Sensitive and Accurate Determination of Oil Soluble and Water Soluble Organosulphur Compounds in Garlic Matrix Using Reversed Phase-High Performance Liquid Chromatography
11:15-11:30	ADNAN FNU (OP) Highly Flexible Amino Functionalized Metal-Organic Framework/rGO Composite Film for Advanced Anodes for Li-Ion Batteries	SELINAY CETIN (OP 33) A Preliminary Study on Microplastic Pollution in Freshwater Streams of the Marmara Basin
11:30-12:30	CLOSING SESSION Awards for Poster Presentation Closing Ceremony	

SHORT ORAL PRESENTATIONS (SOP)

SOP 1	Meltem Çetin, <u>Fatma Demirkaya Milođlu</u>, Nurcan Kılıç Baygutałp, Serkan Yıldırım, Onur Ceylan, Halise İnci Gül, Gizem Eser Microplastics in Patients with Colorectal Adenocarcinoma
SOP	<u>Wafa Soudani, Nedjoudj Cheghib, Hacène Laredj, Kamel Amoura, Fatima Zohra Hadjadj-Aoul</u> Pharmacokinetic Profile and Toxicity of the Active Compounds of Eucalyptus Globulus from Est-Algeria
SOP 2	Fatma Demirkaya Milođlu, <u>Burak Bayrak</u>, Umit Demir, Tuba Oznuluer Ozer, Yücel Kadiođlu, Emir Cepni Application of Central Composite Design to Optimize Moxifloxacin Antibiotic Removal by Graphene Coated Fabric
SOP	<u>Doha Belfadil, Souad Zyade</u> Comparison of Two Extraction Processes of Chitosan from Shrimp Shell Waste from Morocco Local Market
SOP	<u>Khelladi Malika and Debab Abdelkader</u> Valorization of Natural Plants in Industrial Wastewater Treatment Process
SOP 3	<u>Elif Özkul and Belgin Karabacakođlu</u> Removal of Summifix Yellow EXF Reactive Azo Dye by Electro-Fenton Method
SOP 4	Fatma Demirkaya Milođlu, <u>Burak Bayrak</u>, Kubranur Dis, Nursema Yıldırım Chemometric Assisted Spectrophotometric Method for Simultaneous Determination of Desloratadin and Montelukast Sodium in Combined Pharmaceutical
SOP 5	<u>Mehmet Emrah Yaman, Erdinç Aladađ</u> Bioremediation of Pharmaceuticals from Contaminated Water by Microalgae Culture

POSTER PRESENTATIONS (PP)

PP 1	Veselina Panayotova, <u>Katya Peycheva</u>, Albena Merdzhanova, Diana D. Dobрева, Rositsa Stancheva, Lubomir Makedonski Accumulation and Human Health Risks of Potentially Toxic and Essential Elements in <i>Donax Trunculus</i> from Black Sea (Bulgaria)
PP 2	<u>Hülya Şenol</u>, Duygu Adıgüzel, Osman Nuri Ata Investigation of Electrodialysis of an Aqueous Solution Containing Salt and Boric Acid by Electrodialysis with Bipolar Membrane
PP 3	<u>F. Zehra Küçükbay</u>, Zehra Tekin, Zeynep Gönül, Hasan Küçükbay Antioxidant Activities of Some Microwave-Assisted Synthesized Dipeptide-Indole Conjugates
PP 4	<u>Krastena Nikolova</u>, Aleksandar Pashev, Galia Gentscheva, Christina Tzvetkova Optical Characteristics and Chemical Composition of Some Spirulina from the Market
PP 5	Poladova Tarana Ali, Karimova-Japharova Ulviyya Nizami Synthesis of New Surface-Active Catanionic Salt for Removing Thin Petroleum Films from Water Surface
PP	<u>Houcine Ammar</u> Synthesis and Characterization of Chromeno [2,3-b] pyridin 4-yl) Formimidate
PP 6	U.N. Sharifova, F.S. Ibrahimova, I.Q. Sharifova, <u>A.M. Qasimova</u>, A.N. Mammadov Determination of Thermodynamic Parameters of Titanium Lanthanides by Measuring the Emf of Concentration Chains
PP	<u>Mohamed Dammak</u>, Olfa Maalej, Brigitte Boulard Activated Glass for Solar Energy Conversion and Environment Impact
PP	<u>E. Dhahri</u>, R. Dhahri Magnetocaloric Effect of the Polycrystalline Manganite for Application in Magnetic Refrigeration
PP	<u>Wafa Soudani</u>, Nedjouda Cheghib, Hacène Laredj, Kamel Amoura, Fatima Zohra Hadjadj-Aoul Extraction and Antibacterial Activity of the Essential Oil of Eucalyptus Globulus from Est Algeria
PP	<u>Fathi Bahri</u>, Youssef Moualhi Studies on Structural, Vibrational, and Dielectric Relaxation of (Ba, Sr) (Ti, Zr) O ₃ Lead-free Ceramics

PP 7	<u>Elmina Gadirova</u> Quantitative Analysis of PAHs in the 7 Areas of the Caspian Sea
PP 8	<u>Sevinj Hajiyeva, Elmina Gadirova</u> Analysis of Phenolic Compounds in the Industrial Wastewaters
PP	<u>Lilia Ktari, Mouna Smida, Mohamed Dammak, Santiago Garcia Granda</u> Synthesis, Thermal Behavior, Environment Impact of The New Hybrid Iron Fluoride
PP 9	<u>Ceren Özcan Diker, Osman Duman, Tülin Gürkan Polat, Sibel Tunç</u> Comparison of Adsorption Performances of Various Multiwalled Carbon Nanotube-Based Adsorbent Materials for the Removal of Diquat Dibromide Herbicide from Water
PP 10	<u>Ceren Özcan Diker, Osman Duman, Sibel Tunç</u> Removal of Methylene Blue from Water with Halloysite Nanotube and Surface-Activated Halloysite Nanotube: Kinetic Study
PP 11	<u>S.R. Hajiyeva, F.S. Aliyeva</u> Determination of Pb (II) Ion in Bovine Liver
PP 12	<u>S.R. Hajiyeva, F.S. Aliyeva, F.M. Chiragov</u> Determination of Copper (II) in Different Water Samples
PP 13	<u>Mahide Tosun, Ceren Bozdağ, Elif Baştuğ, Ahmed Nuri Kurşunlu, Ersin Güler</u> A New Pillar[5]Arene Derivative Including Five Quinoline Fragments
PP	<u>Farid Benkaci-Ali, Abdelhamid Neggad, Sophie Laurent</u> A New Method of Extracting Polyphenols from Honey Using Abiosorbent Compared to the Commercial Resin Amberlite XAD2
PP 14	<u>S. Beniz Gündüz, Fatma Nur Beyazkaya, Havva Nur Tatlı, Hatice Kaçar Çetin</u> Investigation of Interaction with Lead Using Naproxen as Waste Drug by Fluorimetric Method
PP 15	<u>Ghouas Halima, Taieb Brahimi Fawzia, Haddou Boumedienne, Canselier Jeun Paul, Gourdon Cristophe</u> Wastewater Pollution Prevention for Volatile Organic Compounds (Benzene, Toluene, Ethylbenzene, and Xylene) Using Cloud Point Extraction and Regeneration of Surfactant by Evaporation
PP 16	<u>Sergejs D. Osipovs, Elena M. Kirilova, Muza Kirjušina, Aleksandrs I. Pučkins</u> Development of a Method for The Analysis of Co-Produced Gas Obtained in The Used Tyres Pyrolysis Process for The Determination of Tar

PP 17	<u>Aleksandrs I. Pučkins</u>, Elena M. Kirilova, Marina Savicka, Sergejs D. Osipovs Temperature Dependence of Biogas Output Obtained from Aquaculture Waste
PP 18	<u>Aleyna Turanlı</u>, Elif Cerrahoğlu Kaçakgil, Cemil Dızman UV Curable Polyesters Used in Preparation of Polymeric Networks Containing Pendant Acid Groups to Remove Cationic Dyes from the Water
PP 19	<u>Bahtiyar Yanar</u>, Cemil Dızman, Elif Cerrahoğlu Kaçakgil, Güzin Alpdoğan Metal Adsorption Studies in Aqueous Solutions Using Polymeric Network Structures Derived from Dendrimers and Bio-based Chemicals
PP	<u>Taner Daştan</u>, Savaş Kaya A Theoretical Study on the Performances of Metal decorated Carbon and Silicon Prismanes as the Selective CO ₂ -Adsorbents
PP	<u>Hecine Laouer</u>, Mebarka Lamamra Presentation Chemical Composition and Antimicrobial Activity of Essential Oil of <i>Mentha spicata</i>
PP 20	<u>Yağmur Kiliñç</u>, Buse Tuğba Zaman, Sezgin Bakirdere, Nizamettin Özdoğan Determination of Copper at Trace Levels by Employing DES/Dithizone Based Dual Detection Methods
PP 21	<u>Yaren Dikmen</u>, Sude Oflu, Meltem Şaylan, Merve Fırat Ayyıldız, Sezgin Bakirdere Comprehensive and Accurate Method for The Treatment of Hormones in Wastewater Samples with the UV-assisted Fenton Digestion
PP 22	<u>Elisaveta Mladenova</u>, Irina Karadjova, Valentin Georgiev Analytical Methods for Quality Control of Bioproducts - Bulgarian Wine
PP 23	<u>Nazlıgül Aydın</u>, Zeynep Tekin, Nouha Bakaraki Turan, Sezgin Bakirdere Determination of Chlorfenson in Green Tea Samples using Solid Phase Microextraction Strategy by High Performance-Liquid Chromatography-Ultraviolet Detection
PP 24	<u>Huseyin Yenişapi</u>, Tuğce Gover, <u>Zafer Yazıcıgil</u> Investigation of Electrochemical Behavior of Salophen Based Nitro Group on Solid Electrode Surface
PP 25	<u>Elif Nilay Kaya</u>, Ayşe Nur Önem, Furkan Burak Şen, Mustafa Bener, Saliha Esin Çelik, Mustafa Reşat Apak Investigation of Humic Substances in Leonardite Mineral Using Analytical Methods

PP 26	<u>Emine Tezgin, Gamze Dalgıç Bozyiğit, Buse Tuğba Zaman, Hakan Serbest, Fatma Turak, Sezgin Bakirdere</u> Synthesis of Bismuth Nanoflowers with a Microwave Assisted Hydrothermal Method and Its Application for the Removal of Copper in Tap Water Samples
PP 27	<u>Elena Aleksandrovna Ablomskaia</u> Features of the Chemical Composition of the Soil of the Ribbon Forest and its Restoration After Fires
PP 28	<u>Irina Karadjova, Elisaveta Mladenova, Valentin Georgiev, Metody Karadjov</u> Smart Materials for Speciation Analysis
PP 29	<u>Devrim Nur Karaman, Hakan Serbest, Yağmur Kılınc, Rabia Demirel, Sezgin Bakirdere</u> Manganese Ferrite Magnetic Nanoparticles Based Dispersive Solid Phase Extraction Before Flame Atomic Absorption Spectrometry for The Determination of Trace Level Cadmium in Lake Water
PP	<u>Jelena Kirilova, Armands Maleckis, Marina Savicka, Alise Kirilova, Aleksandrs Puckins</u> Influence of New Luminescent Dyes on the Morphophysiological Parameters in the Functionally Different Wheat Seedling (<i>Triticum aestivum L.</i>) Organs
PP 30	<u>Natavan Bakhshaliyeva</u> Analysis of The Chemical Composition of Persimmon (<i>Diospyros L.</i>) Fruits
PP 31	<u>Gülay Bayramoğlu</u> Separation and Sensitive Detection of <i>Listeria Monocytogenes</i> Using Specific Aptamer Immobilized Magnetic Adsorbent and a Novel QCM Apta-sensor
PP 32	<u>Gülay Bayramoğlu</u> Preparation of Molecular Imprinting Polymer for Arsenic Removal from Aqueous Solution
PP 33	<u>Nigar Alkan, Ali Alkan, Ana Rita Marques Mendes, Nessa Golden, Liam Morrison</u> Degradation of Mussels (<i>Mytilus Edulis</i>) Samples for Microplastics Identification
PP 34	<u>Zeynep Eren</u> Surveillance of Selected Micropollutants in Erzurum Biological Wastewater Treatment Plant



The shaded color indicates the papers that **not presented/could not be presented or withdrawn.**

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