

# Detailed Programme

(as of September 9, 2024)



**REGISTRATION DESK IS OPEN:**

Saturday afternoon (Sept 14):

**15:00 – 18:00**

Sunday and Monday (Sept 15-16):

08:00 – 13:00 & 14:30 – 18:30

Tuesday (Sept 17):

08:00 – 13:00

## SATURDAY (Sept 14, 2024)

17:30 – 18:15	PLENARY LECTURE #1 – ROOM A Chairpersons: Nicolas Kalogerakis
PL 01	<i>Sustainable wastewater engineering: Myths, perceptions, perspectives and advances</i> <b>Professor Dionissios Mantzavinos</b> Chemical Engineering Department, University of Patras, Rio, Greece
18:30 – 22:00	Welcome Reception (Minoa Palace Hotel, next to the pool of the North Building – near the beach)

<b>SUNDAY (Sept 15, 2024)</b>	
09:00 – 09:45	Opening Ceremony – ROOM A
	Welcome by Conference co-Chairs – N. Kalogerakis and Guibin Jiang Greetings by Local Authorities (Mayor of Platanias, Rector - Technical University of Crete)
09:45 – 10:30	PLENARY LECTURE #2 – ROOM A Chairpersons: Chunxia Wang
PL 02	<i>Fluorescence Imaging for the Progression of Oxidative Stress-Related Diseases</i> <b>Professor Bo Tang</b> <i>Laoshan Laboratory, Qingdao, and Shandong Normal University, China.</i>
10:30 – 11:00	Coffee break & Poster viewing (Session A)

11:00 – 13:00 (ROOM A)	SESSION – 1A: Toxicology and eco-toxicology of PTS – I Chairpersons: Yang Song and Lijun Wu
ID 171	Disruptions of Lipid Metabolism and SET-53BP1 Regulatory Axis in Hexavalent Chromium-Induced Lung Cancer <u>Shuai Jiang</u> , Mingyang Zuo, Haofeng Lin, Xuerao Lan and Xiaohu Ren
ID 03	Serum apolipoprotein A-I depletion is causative to silica nanoparticles-induced cardiovascular damage <u>Yang Song</u>
ID 203	Nanoplastic toxicity in <i>Daphnia magna</i> : the role of the protein corona <u>Ana Quevedo</u> , Korin Wheeler, Owen Armstrong, Kathryn R. Riley and Nathalie Tufenkji
ID 07	Triclosan and triclocarban disturbed intestinal epithelial homeostasis by suppressing intestinal stem cells differentiation into intestinal epithelial cells: Insights from organoid model Xiaowen Cheng, Biao Chen, Shengmin Xu and <u>Lijun Wu</u>
ID 38	Transition metal nanoparticles induce ferroptosis Bingyan Liu and <u>Wei Jiang</u>
	<b>FLASH ORAL PRESENTATIONS:</b>
ID 63	Combinatorial immune and stress response, cytoskeleton and signal transduction effects of graphene and triphenyl phosphate (TPP) in mussel <i>Mytilus galloprovincialis</i> <u>Fei Li</u> , Xiaoqing Wang and Huifeng Wu
ID 73	Effects of Multiple Novel Bisphenol S Analogs on Adipogenesis in 3T3-L1 Cells <u>Zhendong Sun</u> , Qunfang Zhou and Guibin Jiang
ID 167	Soil microbiomes divergently respond to heavy metals and polycyclic aromatic hydrocarbons in contaminated industrial sites <u>Zhen-Ni Yang</u> , Cheng-Ying Jiang and Shuang-Jiang Liu
11:00 – 13:00 (ROOM B)	SESSION – 1B: Emerging contaminants of concern-I Chairpersons: Michail Fountoulakis and Abraham Esteve Núñez
ID K209	<b>Keynote presentation:</b> Tackling emerging contaminants and pharma wastewater – the METFILTER solution <u>Abraham Esteve Núñez</u>
ID 47	Changes in Gut Microbiota Structure: A Potential Pathway for Silver Nanoparticles to Affect the Host Metabolism <u>Xinlei Wang</u> , Si Wei and Aijun Miao

ID 138	<b>Examining Staphylococcal Enterotoxin Gene Diversity in Marine Fish Samples from Fisherfolk and Retail Markets: Implications for Public Health</b> Kannan Kamala, <a href="#">Pitchiah Sivaperumal</a> and Dhanraj Ganapathy
ID 145	<b>Typical Neonicotinoids and Organophosphate Esters Adversely Impact Early Human Development by Activating BMP4 Signaling</b> <a href="#">Shuxian Zhang</a> , Renjun Yang, Nuoya Yin and Francesco Faiola
ID 125	<b>Exposure to methylparaben advances pubertal onset by activating hypothalamic neuroendocrine cells</b> <a href="#">Linping Wang</a> and Jing Liu
ID 83	<b>Screening of emerging contaminants in stack gas from cement kiln co-processing hazardous waste</b> Changzhi Chen, <a href="#">Guorui Liu</a> and Minghui Zheng
<b>FLASH ORAL PRESENTATIONS:</b>	
ID 180	<b>Lung megakaryocytes engulf inhaled airborne particles to promote intrapulmonary inflammation and extrapulmonary distribution</b> Jiahuang Qiu, <a href="#">Juan Ma</a> and Sijin Liu
ID 86	<b>Exposure to 4-hydroxy-4'-isopropoxydiphenylsulfone in Early Life Causes Behavioural Deficits Related with Autism Spectrum Disorders in Mice</b> <a href="#">Shengnan Zhang</a> , Weiping Liu and Mingrong Qian
11:00 – 13:00 (ROOM C)	<b>SESSION – 1C: Microplastics and nanoplastics – I</b> Chairpersons: Evdokia Syranidou and Lei Wang
ID 210 Keynote	<b>Keynote presentation:</b> <b>Breaking down boundaries: the enzymatic degradation of designer polymers</b> <a href="#">Patrick Shahgaldian</a>
ID 14	<b>Mie Scattering Method for In Situ and Rapid Detection of Trace Nanoplastics in Water</b> Lei Mou, Ruilong Li, Yaxian Zhu and <a href="#">Yong Zhang</a>
ID 97	<b>Development of analytical methods for microplastics and nanoplastics</b> <a href="#">Siyuan Jing</a> , Yanting Wang, Yunqian Chen and Thomas Wanger
ID 132	<b>Fate of nanoparticles and chemicals released from tire crumb rubber in model groundwater environments</b> <a href="#">Georgina Kalogerakis</a> and Nathalie Tufenkji
<b>FLASH ORAL PRESENTATIONS:</b>	
ID 05	<b>Concurrence of microplastics and heat waves reduces rice yields and disturbs the agroecosystem nitrogen cycle</b> <a href="#">Li Mu</a>
ID 78	<b>Classification and quantification of microplastics in the marine coastal environment of a sandy beach in the city of Chania</b> <a href="#">Nikolaos Danis</a> and Eleftheria Katsivela
13:00 – 14:30	<b>LUNCH (Minoa Palace Hotel – Elia restaurant)</b>
14:40 – 15:30	<b>PLENARY LECTURE #3 – ROOM A</b> Chairpersons: Nicolas Kalogerakis
PL 03	<b><i>Fate of airborne ultrafine particles and microfibers in the human respiratory tract and transport to the olfactory region</i></b> <b>Professor Mihalis Lazaridis</b> <i>Chemical &amp; Environmental Engineering, Technical University of Crete, Chania, Greece.</i>
15:30 – 16:00	<b>Coffee break &amp; Poster viewing (Session A)</b>

<b>16:00 – 18:30 (ROOM A)</b>	<b>SESSION – 2A: Toxicology and eco-toxicology of PTS – II</b> <b>Chairpersons: Lingyan Zhu and Bingshen Zhou</b>
<b>ID K10</b>	<b>Keynote presentation:</b> <b>Understanding the cell signaling dynamics by creating redox cell models</b> <a href="#">Bin Yan</a>
<b>ID 53</b>	<b>New insights into decabromodiphenyl ethane induced male reproductive toxicity from multi-omic analysis: energy reprogramming in germ cells</b> <a href="#">Lihua Yang</a> , <a href="#">Yindan Zhang</a> , <a href="#">Jianghuan Hua</a> and <a href="#">Bingsheng Zhou</a>
<b>ID 68</b>	<b>Impact of anthropogenic nutrient inputs on mercury (Hg) transformation in water body and bioaccumulation by fish</b> <a href="#">Jiajia Li</a> , <a href="#">Yongmin Wang</a> , <a href="#">Tao Jiang</a> , <a href="#">Cheng Zhang</a> , <a href="#">Yuping Xiang</a> and <a href="#">Dingyong Wang</a>
<b>ID 106</b>	<b>Developmental and neurotoxic effects and mechanisms of perfluoroalkyl phosphinic acids on aquatic organisms</b> <a href="#">Lingyan Zhu</a> , <a href="#">Tianxu Zhang</a> , <a href="#">Wenjue Zhong</a> , <a href="#">Shujun Yi</a> and <a href="#">Yumin Zhu</a>
<b>ID 123</b>	<b>Postnatal and pubertal exposure to 1,4-dichlorobenzene induced weight gain in male mice: the role of gut microbiota</b> <a href="#">Chaoyu Tong</a> and <a href="#">Jing Liu</a>
<b>ID 143</b>	<b>Environmental Pollution Toxicity Research Based on Toxicology Big Data Analysis</b> <a href="#">Renjun Yang</a> , <a href="#">Nuoya Yin</a> and <a href="#">Francesco Faiola</a>
<b>16:00 – 18:30 (ROOM B)</b>	<b>SESSION – 2B: Emerging contaminants of concern-II</b> <b>Chairpersons: Si Wei and Paschalis Alexandridis</b>
<b>ID K151</b>	<b>Keynote presentation:</b> <b>Molecular Design of Polymer Materials for Capture of PFAS from Aqueous Media</b> <a href="#">Marina Tsianou</a> , <a href="#">Dmitry Bedrov</a> and <a href="#">Paschalis Alexandridis</a>
<b>ID 32</b>	<b>Photoinitiators: From Environmental Pollution to Human Exposure</b> <a href="#">Xiaomeng Ji</a> , <a href="#">Jiefeng Liang</a> and <a href="#">Runzeng Liu</a>
<b>ID 147</b>	<b>Targeted, suspect and non-targeted screening of per- and polyfluoroalkyl substances in milk</b> <a href="#">Yan Gao</a> , <a href="#">Yaoyao Li</a> , <a href="#">Shenzheng Sun</a> , <a href="#">Xiuqin Li</a> , <a href="#">Shanjun Song</a> and <a href="#">Qinghe Zhang</a>
<b>ID 96</b>	<b>Intelligent Non-targeted Analysis of Perfluoroalkyl Substances</b> <a href="#">Si Wei</a>
<b>ID 215</b>	<b>Attaining Parts Per Quadrillion (ppq) Level Quantitation of PFAS in Untreated Water and Drinking Water</b> <a href="#">Huiyong Lian</a>
<b>ID 190</b>	<b>Fate of perfluorinated substances and benzotriazoles during anaerobic digestion of sewage sludge with the addition of conductive materials</b> <a href="#">Michail Fountoulakis</a> , <a href="#">Michail Deligiannis</a> , <a href="#">Evdokia Gkalipidou</a> , <a href="#">Georgia Gatidou</a> , <a href="#">Olga Arvaniti</a> , <a href="#">Nikolaos Thomaidis</a> , <a href="#">Ioannis Vyrides</a> and <a href="#">Athanasios Stasinakis</a>
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 177</b>	<b>Occurrence and Ecological Risk of New Energy-related Persistent and Emerging Contaminants in the Yangtze River Basin</b> <a href="#">Bao Zhu</a> , <a href="#">Shuping Yang</a> , <a href="#">Zhen Yang</a> , <a href="#">Haiyan Zhang</a> , <a href="#">Jianjie Fu</a> and <a href="#">Guibin Jiang</a>
<b>ID 199</b>	<b>Removal of antibiotic contaminants by microalgae</b> <a href="#">Petroula Seridou</a> , <a href="#">Sofia Monogyiou</a> , <a href="#">Evdokia Syranidou</a> and <a href="#">Nicolas Kalogerakis</a>
<b>ID 206</b>	<b>The Environmental Risks Associated with Lithium Pollution in the Context of Carbon Neutrality Strategies</b> <a href="#">Xuezhi Yang</a> , <a href="#">Haiyan Zhang</a> , <a href="#">Jianjie Fu</a> , <a href="#">Qian Liu</a> and <a href="#">Guibin Jiang</a>

<b>16:00 – 18:30 (ROOM C)</b>	<b>SESSION – 2C: Microplastics and nanoplastics-II Chairpersons: Wei Chen and Patrick Shahgaldian</b>
<b>ID 09</b>	<b>Microplastics – back to reality: Impact of pristine and aged microplastics on soil organisms <i>Eisenia fetida</i> under environmentally relevant conditions</b> <u>Xiaofeng Jiang</u> and Mei Li
<b>ID 42</b>	<b>Sample pretreatment and single particle characterization of micro-nanoplastics</b> Gang Li and <u>Qinghua Zhang</u>
<b>ID 99</b>	<b>Microplastics may act as a vector for potentially hazardous metals in rural soils</b> <u>Jinjing Luo</u> and Rupeng Du
<b>ID 104</b>	<b>Retention of airborne microplastics on tree leaves and influential factors</b> <u>Chunguang Liu</u> , Ziqing Zhao, Xu Zhao, Lei Wang and Hongwen Sun
<b>ID 40</b>	<b>Soil Erosion is a Major Drive for Nano &amp; Micro-Plastics to Enter Riverine Systems from Cultivated Land</b> <u>Yanting Wang</u> , Siyuan Jing, Rui Ni, Kai Liu and Weiping Liu
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 201</b>	<b>The role of secondary polypropylene microplastics in the formation of marine colloidal aggregates</b> <u>Katerina Karkanorachaki</u> , Evdokia Syranidou and Nicolas Kalogerakis
<b>19:00 – 21:00</b>	<b>DINNER (Athena Hall) Mediterranean cuisine</b> <b>Sponsored by AGILENT TECHNOLOGIES - Greetings by VP Agilent Technologies (China)</b>

## MONDAY (Sept 16, 2024)

08:40 – 09:30	<b>PLENARY LECTURE #4 – ROOM A</b> Chairpersons: Eddy Zeng
<b>PL 04</b>	<b><i>Biosensors for environmental monitoring: practice and challenges</i></b> <b>Professor Xian-En Zhang</b> <i>Shenzhen Univ. of Advanced Technology &amp; Institute of Biophysics, CAS, China.</i>
9:30 – 10:30 (ROOM A)	<b>SESSION – 3A: Toxicology and eco-toxicology of PTS – III</b> Chairperson: Hailin Wang
<b>ID 163</b>	<b>An Automated Morphometric Approach to Assess Vascular toxicity of Environmental Chemicals</b> <u>Yanhong Wei</u> , Xiali Zhong, Zhuyi Zhang and Jiayin Dai
<b>ID 160</b>	<b>Misincorporated DNA N6-methyladenine as a new mark on environmental stresses</b> <u>Hailin Wang</u> and Weiyi Lai
<b>ID 137</b>	<b>Response and molecular detoxification mechanism of <i>Synechocystis</i> sp. PCC 6803 to cadmium ion stress</b> <u>Yonghong Bi</u> and Gang Ruan
<b>ID 60</b>	<b>Effects of non-antibiotic pharmaceuticals on zebrafish and the intestinal bacterial resistome</b> <u>Xueping Guo</u> , Yiting Yang, Daqiang Yin and Ting Xu
9:30 – 10:30 (ROOM B)	<b>SESSION – 3B: Sources, transport and fate of PTS – I</b> Chairpersons: Dongqiang Zhu
<b>ID K211</b>	<b>Keynote presentation:</b> <b>PFAS in the Soil-Plant Ecosystem</b> <u>Jay Gan</u>
<b>ID 115</b>	<b>A Nationwide Investigation on Organophosphate Flame Retardants in Tea from China: Source Apportionment, Migration from Packaging Materials, and Risk Assessment</b> <u>Xin Wang</u> , <u>Qingqing Zhu</u> , Chunyang Liao and Guibin Jiang
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 67</b>	<b>Proteomic Insights from Extracellular Vesicles into the Molecular Mechanisms of Health Effects Induced by Per- and Polyfluoroalkyl Substances</b> <u>Yanping Li</u> , <u>Nali Zhu</u> , Yawei Wang and Guibin Jiang
<b>ID 185</b>	<b>Fate of BDE47 in paddy soil</b> <u>Yao Yao</u>
9:30 – 10:30 (ROOM C)	<b>SESSION – 3C: Microplastics and nanoplastics – III</b> Chairperson: Rong Ji
<b>ID K212</b> Keynote	<b>Keynote presentation:</b> <b>Fate of (bio)plastics in the natural environment</b> <u>Evdokia Syranidou</u>
<b>ID 189</b>	<b>Transport of plastic debris from land to deep seas</b> <u>Eddy Zeng</u> , Lei Mai and Xiangfei Sun
10:30 – 11:00	<b>Coffee break &amp; Poster viewing (Session A)</b>
11:00 – 13:00 (ROOM A)	<b>SESSION – 4A: Effects of PTS on human health – I</b> Chairpersons: Xinghua Qiu and Marina Tsianou
<b>ID 15</b>	<b>Lipidomic study on the developmental toxicity of PFAS to zebrafish embryos</b> <u>Qian Luo</u>

<b>ID 58</b>	<b>Exposure Markers of Nitrated Aromatic Compounds and the Association with Nitrative Stress</b> <u>Xinghua Qiu</u> , Jinming Liu and Xing Jiang
<b>ID 75</b>	<b>Association between human exposure to novel flame retardants and type II diabetes risk</b> Gaixin Zhang, <u>Yingming Li</u> and Qinghua Zhang
<b>ID 77</b>	<b>Effects of Pyrethroid Insecticides on Gestational Diabetes Mellitus and Glucose Homeostasis</b> Yubing Ma, Yile Wei and <u>Jing Liu</u>
<b>ID 82</b>	<b>COPD-like Phenotypes in TBC-treated Mice Can be Effectively Alleviated via Estrogen Supplement</b> Wenjuan Zhang, Ling Wang, Mengxi Cao, Huiming Cao and <u>Yong Liang</u>
<b>ID 34</b>	<b>Perfluoroalkyl substances exposure increases the risk of thyroid neoplasms and thyroid dysfunction based on a case-control study from southeastern China</b> Song Jiayi, <u>Zhang Jianqing</u> and Xuan Zou
<b>ID 139</b>	<b>The Evaluation of Persistent Toxic Substances' Adverse Health Effects through Stem Cell Toxicology</b> <u>Francesco Faiola</u> , Nuoya Yin and Renjun Yang
<b>ID 142</b>	<b>Study on pulmonary toxicity of environmental pollutants employing lung cancer stem cell model</b> <u>Junhan Yang</u> , Nuoya Yin, Renjun Yang and Francesco Faiola
<b>11:00 – 13:00 (ROOM B)</b>	<b>SESSION – 4B: Sources, transport and fate of PTS – II</b> <b>Chairpersons: Xinbin Feng and Lin Wang</b>
<b>ID K27</b>	<b>Keynote presentation:</b> <b>N-Containing Organics Aerosol Formation by an on-line VACES</b> <u>Jianmin Chen</u> , Xiaona Shanghai, Munira Abdumutallip, Zongwei Cai and Christian George
<b>ID 30</b>	<b>Combating air pollution significantly reduced atmospheric mercury concentrations in ambient air in China</b> <u>Xinbin Feng</u> , Xuewu Fu and Hui Zhang
<b>ID 41</b>	<b>Formation of Chlorinated Organic Compounds from Cl Atom-Initiated Reactions of Aromatics and Their Detection in Suburban Shanghai's Atmosphere</b> Chuang Li, Lei Yao, Mingliang Fang, Xiaojia Chen, Yuwei Wang, Lihong Wang, Yueyang Li, Gan Yang and <u>Lin Wang</u>
<b>ID 66</b>	<b>Oxidised mercury photoreduction in atmospheric aerosol water driven by carboxyl ligands</b> <u>Deming Han</u> , Qingru Wu, Shuxiao Wang and Jianbo Shi
<b>ID 45</b>	<b>Case studies on surface chemistry-dependent adsorption and transformation of organic contaminants</b> <u>Dongqiang Zhu</u>
<b>ID 124</b>	<b>Impacts of particulate matters on mercury bioavailability and bioaccumulation</b> <u>Yuping Xiang</u> , Yingying Guo, Dingyong Wang and Yongguang Yin
<b>ID 44</b>	<b>Sources of mercury varied in the Mariana trench during Last Glacial Maximum to Holocene</b> Zhengwen Zhou, Huiling Wang, Yu Xin, Yingjun Wang, Xiting Liu, Jiwei Tian, Holger Hintelmann, Yongguang Yin, Guangliang Liu, Yong Cai and <u>Yanbin Li</u>
<b>11:00 – 13:00 (ROOM C)</b>	<b>SESSION – 4C: Mitigation and remediation of PTS, emerging, and other contaminants – I</b> <b>Chairpersons: Shuangjiang Liu and Simona Di Gregorio</b>
<b>ID 213</b>	<b>Keynote presentation:</b> <b>Removing aquaculture-related organic contaminants using marine sponges: Kinetics and mechanistic insights"</b> <u>Manolis Mandalakis</u>
<b>ID 57</b>	<b>Efficient removal of carbamazepine in water based on ultrasound- assisted piezo-catalysis with MoS<sub>2</sub>-PEG</b> <u>Zhiliang Zhu</u>



<b>ID 188</b>	<b>Surface corrosion by microbial flora enhances the application potential of phosphate rock for cadmium remediation</b> <u>Wenli Chen</u> , Yonghui Xing, Yi Jiang and Qiaoyun Huang
<b>ID 91</b>	<b>Analysing microbial community dynamics and pharmaceuticals degradation in lab-scale MBRs under fluctuating micro-pollutant concentration</b> Francesca Demaria, Marcel Suleiman, <u>Philippe Corvini</u> and Pilar Junier
<b>ID 159</b>	<b>Core species derived from multispecies interactions facilitate the immobilization of cadmium</b> Yonghui Xing, <u>Lei Zou</u> , Song Liu, Shuxin Tan, Yi Jiang, Qiaoyun Huang and Wenli Chen
<b>FLASH ORAL PRESENTATIONS:</b>	
<b>ID 20</b>	<b>Potential of a novel endophytic diazotrophic Serratia sp. Wed4 for pyrene biodegradation</b> <u>Xuezhu Zhu</u>
<b>ID 181</b>	<b>Nanobiodegradation: Bionanoparticles from bioactive substances, bacteria and their use for PCB removal</b> <u>Marcela Tlčíková</u> , Hana Horváthová, Katarína Dercová, Katarína Turanská and Lubomír Jurkovič
<b>13:00 – 14:30</b>	<b>LUNCH (Minoa Palace Hotel – Elia restaurant)</b>

<b>14:40 – 15:30</b>	<b>PLENARY LECTURE #5 – ROOM A</b> Chairperson: Jay Gan
<b>PL 05</b>	<b><i>Unlocking Large Biomolecules in Wastewater Based Epidemiology (WBE): Insights into Public Health and Industrial Activity Signatures</i></b> <b>Professor Damià Barceló</b> <i>Chemistry and Physics Department, University of Almeria, Spain.</i>
<b>15:30 – 16:00</b>	<b>Coffee break &amp; Poster viewing (Session B)</b>

<b>16:00 – 18:30</b>	<b>SESSION – 5A: Effects of PTS on human health – II (ROOM A)</b> Chairpersons: Jiayin Dai and Francesco Faiola
<b>ID 52</b>	<b>Per- and Polyfluoroalkyl Substance (PFAS) Levels in Chinese adults and Thyroid Hormone Homeostasis Association</b> Yanan Xing and <u>Jiayin Dai</u>
<b>ID 165</b>	<b>Epigenetic effects of occupational exposure in Segradat e-waste recycling workers</b> <u>Jelle Verdonck</u> , Manosij Ghosh, Katrien Poels, Lode Godderis, Beata Janasik, Wojciech Wasowicz, Paul Scheepers, Maurice van Dael, Inese Martinsone, Lāsma Akūlova, An Van Nieuwenhuyse, Radu Corneliu Duca, Carla Martins, Susana Viegas, Henriqueta Louro, Maria João Silva, Simo Porras, Selma Mahiout and Tiina Santonen
<b>ID 141</b>	<b>UV filters disrupt neural development in central and peripheral nervous system lineages and dysregulate WNT signaling</b> <u>Shichang Li</u> , Renjun Yang, Nuoya Yin and Francesco Faiola
<b>ID 191</b>	<b>The partitioning and distribution of neonicotinoid insecticides in human blood</b> Quan Zhang and <u>Shitao Hu</u>
<b>ID 193</b>	<b>An overlooked potential health risk of neonicotinoid—the dietary exposure from rice in china</b> Quan Zhang and <u>Zongqi Hu</u>
<b>ID 204</b>	<b>The role of tea rinsing process in the residues and Segradat risks of neonicotinoid insecticides in six types of tea</b> <u>Haoyu Zhang</u> and Quan Zhang



<b>ID 205</b>	<b>Dietary exposure levels and health risk assessment of neonicotinoid insecticides in infants and children</b> <u>Xulun Zhang</u> and Quan Zhang
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 102</b>	<b>Per- and polyfluoroalkyl substances acute exposure disrupt the neuronal electrophysiological activity</b> <u>Jia Gao</u> , Chunyang Liao and Guibin Jiang
<b>ID 128</b>	<b>Organophosphate Esters Induced Proliferation and Migration of Triple-Negative Breast Cancer Cells through EGFR and Hippo Signaling Pathways Regulation</b> <u>Yawen Chen</u> , Ting Xu, Daqiang Yin and Xueping Guo
<b>ID 187</b>	<b>Mono-2-ethylhexyl phthalate directly binds with TLR4-MD2 complex to promote podocyte injury and chronic kidney disease (CKD) progression</b> Jiajun Jing, Sijin Liu and <u>Ming Gao</u>
<b>ID 196</b>	<b>Relationship of General Tobacco Products &amp; E-cigarettes on Oral Health: Considerable Risks including Oral Cancer and Periodontitis</b> <u>Charlie Park</u>
<b>16:00 – 18:15</b>	<b>SESSION – 5B: Sources, transport and fate of PTS – III (ROOM B)</b> <b>Chairpersons: Yong Cai and Eleftheria Katsivela</b>
<b>ID 157</b>	<b>Primary factors controlling mercury methylation in paddy soils with the application of agricultural residues</b> <u>Yongmin Wang</u> , Juan Wang, Jingwen Yang, Tao Jiang, Yuping Xiang and Dingyong Wang
<b>ID 64</b>	<b>Particles-involved photochemical processes play a critical role in aquatic mercury cycling</b> <u>Yong Cai</u> , Peter Olusakin Oladoye, Kang Wang and Guangliang Liu
<b>ID 12</b>	<b>Fate of Two Typical Plant-generated Glycoconjugates of Tetrabromobisphenol A in Human Gastrointestinal System and Liver</b> Hongrui Zhang, Xingwang Hou, <u>Jiyan Liu</u> and Guibin Jiang
<b>ID 129</b>	<b>Humin-facilitated Dehalogenation of Tetrabromobisphenol A by an Anaerobic Consortium</b> Guiping Liu, Rong Ji, Wenqing Qiao and <u>Jiandong Jiang</u>
<b>ID 08</b>	<b>Rapid Oxidation of Black Phosphorus induced by Copper Ions via Promoting Oxygen Bonding and Phosphate Desorption</b> <u>Liang Mao</u> , Xiaoyan Sun and Zhiyu Zhu
<b>ID 02</b>	<b>Reconciling the Origin of Nanoplastics and Their Characteristics</b> <u>Tong Yang</u> , Jinxia Liu, Antonia Praetorius and Zhanyun Wang
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 62</b>	<b>Distribution and metabolism of organophosphate triesters and diesters in C56BL/6 mice via oral gavage exposure</b> <u>Haiyan Zhang</u>
<b>ID 155</b>	<b>Occurrence and transport of organic light-emitting materials (OLEMs) and liquid crystal monomers (LCMs) in typical urban lake, China</b> Jing Xu, Tiantian Han, <u>Yanfen Hao</u> , Yizheng Ge, Thanh Wang, Pu Wang and Yong Liang
<b>ID 207</b>	<b>Application of six-step sequential extraction for determination of nutrients mobility in paddy soils</b> <u>Veronika Cyprichová</u> and Antonio Gelsomino
<b>16:00 – 18:15 (ROOM C)</b>	<b>SESSION – 5C: Mitigation and remediation of PTS, emerging, and other contaminants – II</b> <b>Chairpersons: Georgios Kolliopoulos and Manolis Madalakis</b>
<b>ID K216</b>	<b>Keynote presentation:</b> <b>SOIL-OMIC® in situ soil treatment: the case of polycyclic aromatic hydrocarbons and heavy metals</b> <u>Simona Di Gregorio</u> , Simone Becarelli, Giacomo Bernabei, Carlos Garcia, Serena Doni, Alessandro Gentini A.

<b>ID 133</b>	<b>Toluene NAPL Remediation with Heat-activated Peroxydisulfate in Columns</b> <u>Georgina Kalogerakis</u> , Hardiljeet K. Boparai and Brent E. Sleep
<b>ID 80</b>	<b>Molecularly imprinted poly(ButenOx) for the determination of MCPA using ambient ionization mass spectrometry</b> <u>Aleksandra Lusina</u> and Michał Cegłowski
<b>ID 81</b>	<b>Source reduction and end catalytic control of dioxin and unkown pollutants during wastes combustion</b> Yue Zhang, Jing Meng, Qianqian Li and <u>Guijin Su</u>
<b>ID 186</b>	<b>Evidence for the advantage of sequential anaerobic-aerobic transformation of toxaphene</b> Monica Sofia Veloza Mora, <u>Ziv Arbeli</u> , Johana Husserl Orjuela, Johan Sebastian Saenz, Walter Vetter and Alena Aha
<b>ID 21</b>	<b>The removal of antibiotics and organic arsenic from waters by modified schwertmannite-based heterogeneous Fenton</b> Ting Li, Dianzhan Wang, Jianru Liang <u>Xuezhu Zhu</u> and Lixiang Zhou
<b>19:00 – 23:00</b>	<b>GALA DINNER (busses leave at 18:45)</b>

## TUESDAY (Sept 17, 2024)

08:40 – 09:15	<b>PLENARY LECTURE #6 – ROOM A</b> Chairperson: Philippe Corvini
<b>PL 06</b>	<i>The role of bioeconomy in the restoration of degraded lands and seas</i> <b>Professor Fabio Fava</b> Department of Civil, Chemical, Environmental and Materials Engineering, Alma Mater Studiorum-Università di Bologna, Italy
9:15 – 10:30 (ROOM A)	<b>SESSION – 6A: Analytical and bioanalytical methods – I</b> Chairpersons: Hanyong Peng and Ioannis Ignatiadis
<b>ID 28</b>	<b>Advancements in DNA Nanotechnology for Imaging and Modulating Key Molecules in Living Cells</b> Aijiao Yuan, Wenjing Xie and <u>Hanyong Peng</u>
<b>ID 46</b>	<b>Developing high-performance whole-cell biosensors for pollution monitoring using direct evolution of toxic metal transcription factors</b> <u>Shaopeng Chen</u>
<b>ID 136</b>	<b>Quantification of fluoride ions using ion-specific electrode: application for PFOA defluorination</b> Raphael Tur, Romain Rodrigues, Stéphanie Betelu, Aya Messaoudi, Stéfan Colombano, Sébastien Bristeau, Dorian Davarzani, Julien Grandclément, Arnault Perrault, Julie Lions, Eric Van Hullebusch and <u>Ioannis Ignatiadis</u>
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 168</b>	<b>Enrichment analysis of non-steroidal anti-inflammatory drugs in water and milk using cationic metal-organic framework membrane</b> Hai-Long Jiang, Ru-Song Zhao and <u>Xia Wang</u>
<b>ID 198</b>	<b>Quantification of pesticides without standard substances in biomonitoring through suspect screening analysis</b> Chi Zhang, Dawei Chen and <u>Yan Bao</u>
<b>ID 161</b>	<b>In-depth profiling of di(2-ethylhexyl) phthalate metabolic footprints in rats using click chemistry-mass spectrometry probes</b> <u>Yuning Hu</u> , Jintao Zhan, Peirong Bai, Na An, Junjie Tan, Yanzhen Wang, Quanfei Zhu and Yuqi Feng
9:15 – 10:30 (ROOM B)	<b>SESSION – 6B: Nature-based solutions for tackling PTS contamination</b> Chairpersons: Argyro Tsipa and Sadhna Mathura
<b>ID K152</b>	<b>Keynote presentation:</b> Focusing on micro- to enhance the macro-scale (electro)bioremediation of oily wastewater <u>Argyro Tsipa</u>
<b>ID 156</b>	<b>Transformation and biodegradation of tebuconazole and its metabolites in vertical flow constructed wetlands with the colonization of arbuscular mycorrhizal fungi</b> Yingrun Chen and <u>Zhongbing Chen</u>
<b>ID 183</b>	<b>Catching PFAS: Engineering the plant microbiome for PFAS remediation</b> <u>Lucia Rodriguez-Freire</u> , Boran Wang and Sophie Dewson
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 148</b>	<b>PFOA uptake and its impact on the morphology and antioxidant response of hydroponic willow culture</b> <u>Anna Wyrwicka-Drewniak</u> , Grażyna Chwatko, Adrian Olszewski, Lidia Błażalek, Angelika Łacwik, Monika Olczyk, Fabrizio Pietrini and Massimo Zacchini
<b>ID 176</b>	<b>Bilirubin analogues: nature-based solution to heavy metal chelation</b> <u>Sadhna Mathura</u>

<b>9:15 – 10:30 (ROOM C)</b>	<b>SESSION – 6C: Risk assessment of PTS, and modeling their fate and toxicity Chairpersons: Jianjie Fu</b>
<b>ID 114</b>	<b>Detection and health implications of PAEs in tea drinks on market: An application of the novel SPME fiber</b> Shaohan Wang and <u>Fang Zhu</u>
<b>ID 84</b>	<b>Unravelling bioaccumulation, depletion and metabolism of organophosphate triesters in laying hens: Insight of in vivo biotransformation assisted by diester metabolites</b> Yuhan Yin and <u>Xiaomin Li</u>
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 182</b>	<b>Evaluation from an ecotoxicological perspective of the effectiveness of different remediation technologies within the framework of the greener and biosysmo projects</b> <u>Patricia Solorzano</u> , Dalia de la Fuente Vivas, Sara Gil Guerrero, Rubén Martínez, Rocío Barros, Carlos Rumbo, Verónica González, Sara Collado, Sandra de la Parra, Martí Aliaguilla, Eduard Borràs and Socorro Vázquez-Campos
<b>10:30 – 11:00</b>	<b>Coffee break &amp; Poster viewing (Session B)</b>

<b>11:00 – 13:00 (ROOM A)</b>	<b>SESSION – 7A: Analytical and bioanalytical methods – II Chairpersons: Qian Liu and Fotios Tsopelas</b>
<b>ID 36</b>	<b>Aptamer fluorescence sensors for rapid detection of cadmium ions</b> <u>Qiang Zhao</u>
<b>ID 89</b>	<b>MS-AGENT: An intelligent agent for compound identification and analysis leveraging large-scale language models</b> <u>Yunhao Ke</u> and Si Wei
<b>ID 113</b>	<b>Mass Spectrometry Techniques for Multi-Dimensional Characterization of Environmental Nanoparticles</b> <u>Qian Liu</u> and Guibin Jiang
<b>ID 208</b>	<b>Localization and Identification of Micro and Nanoplastics via Optical Photothermal Infrared Microspectroscopy</b> <u>Jun-Ray Macairan</u> , Arav Saherwala, Frank Li, Fanny Monteil-Rivera, Sabine Dodard, Guadalupe Santos, Owen Armstrong, and Nathalie Tufenkji
<b>ID 94</b>	<b>Multidimensional characterization of particulate matter and molecular mechanism of degradation</b> <u>Xiu Huang</u>
<b>ID 48</b>	<b>The key to 2,6-dichloro-1,4-benzoquinone reproductive toxicity and green tea detoxification: covalent binding and competitive binding</b> Na Li and <u>Jian-Lin Wu</u>
<b>ID 200</b>	<b>Estimation of ecotoxicological endpoints of pesticides using micellar liquid chromatography</b> <u>Fotios Tsopelas</u> , Chrysanthos Stergiopoulos, Lamprini-Areti Tsakanika, Maria Ochsenkuehn-Petropoulou and Anna Tsantili-Kakoulidou
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 70</b>	<b>Characterization of metal nanoparticles in biological samples by ICP-MS technique</b> <u>Lihong Liu</u> , Qinfei Zhou, Bin He, Ligang Hu and Guibin Jiang
<b>ID 85</b>	<b>Application of a ready-to-use cell sensor for dioxins and dioxin-like compounds screening in meat samples</b> <u>Yangsheng Chen</u> , Li Xu, Songyan Zhang and Bin Zhao

<b>11:00 – 13:00 (ROOM C)</b>	<b>SESSION – 7C: Mitigation and remediation of PTS, emerging, and other contaminants – III</b> <b>Chairpersons: Ioannis Ignatiadis and Georgina Kalogerakis</b>
<b>ID K214</b>	<b>Keynote presentation:</b> <b>Remediation of effluents from mining and metallurgical activities: challenges and opportunities</b> <b><u>Georgios Kolliopoulos</u></b>
<b>ID 69</b>	<b>Comparison of different biochars as potential adsorbents for emerging contaminants removal from water</b> <u>Evrudiki Maria Barka</u> , Constantinos Noutsopoulos, Ioulita Latani, Elpida Kapsimali, Daniel Mamais and Simos Malamis
<b>ID 29</b>	<b>Visible-light-driven destruction of perfluoroalkyl substances with mechanistic insights into Z-scheme electron transfer pathways and C-F bond cleavage</b> <u>Qingzhe Zhang</u> , Runzeng Liu, Yongguang Yin and Yong Cai
<b>ID 87</b>	<b>Optimization of experimental conditions of PFOA defluorination using DMSO/NaOH mixture</b> <u>Raphael Tur</u> , Stéphanie Betelu, Romain Rodrigues, Stéfan Colombano, Dorian Davarzani, Sébastien Bristeau, Julien Grandclément, Arnault Perrault, Julie Lions, Eric Van Hullebusch and Ioannis Ignatiadis
<b>ID 88</b>	<b>PFOA and PFOS removal using nano-sized palladium spots coated zero-valent iron microparticles (nPd-<math>\mu</math>ZVI)</b> <u>Raphael Tur</u> , Stéphanie Betelu, Romain Rodrigues, Stéfan Colombano, Dorian Davarzani, Sébastien Bristeau, Julien Grandclément, Julie Lions, Eric Van Hullebusch and Ioannis Ignatiadis
<b>ID 197</b>	<b>Effective degradation of dye pollutants by polydopamine enhanced Fe(III)/CaO<sub>2</sub> Fenton-like technology</b> Yujia Yang, Lili Tian, Mingwei Wang and <u>Qingrui Zhang</u>
<b>13:00 – 14:30</b>	<b>LUNCH (Minoa Palace Hotel – Elia restaurant)</b>

<b>14:40 – 15:30</b>	<b>PLENARY LECTURE #7 – ROOM A</b> Chairperson: Yong Cai
<b>PL 07</b>	<b><i>Plant-microbe based remediation and phytomanagement of polluted soils and groundwater: Lessons from field trials</i></b> <b>Professor Jaco Vangronsveld</b> <i>Centre for Environmental Sciences, Hasselt University (Belgium)</i>
<b>15:30 - 16:15</b>	<b>Coffee break &amp; Poster viewing (Session B)</b>

<b>(ROOM A)</b>	<b>CLOSING CEREMONY OF ISPTS-2024</b>
<b>16:15 – 16:30</b>	<b>BEST POSTER &amp; ORAL AWARDS</b> (sponsored by Agilent Technologies, Wellington Laboratories, Journal of Eco-Environment & Health, Royal Society of Chemistry – Environmental Science journals)
<b>16:30 – 17:10</b>	<b>SHORT PLENARY LECTURES BY THE BEST ORAL AWARDEES</b> Chairperson: Minghui Zheng
<b>17:10 – 17:30</b>	<b>CLOSING CEREMONY</b>
<b>17:30 – 17:50</b>	<b>Presentation by Prof. Jung-Hwan Kwon of upcoming ISPTS-2025 [S. KOREA]</b>
<b>17:50 – 18:15</b>	<b>Presentation by Prof. Fabio Fava of upcoming ISPTS-2026 [ITALY]</b>
<b>19:00 - 21:00</b>	<b>DINNER (Minoa Palace Hotel, Athena Hall) ; Cretan Cuisine</b> <b>Sponsored by Elsevier’s Journal of Eco-Environment &amp; Health</b>

<b>WEDNESDAY (Sept 18, 2024)</b>	
<b>08:00 - 18:00</b>	<b>Conference field trip</b> <b>KNOSSOS PALACE &amp; Archaeological Museum in Heraklion</b> <b>(Busses leave at 8:30 from Minoa Palace Hotel)</b>
<b>19:00 - 21:00</b>	<b>DINNER (Minoa Palace Hotel, Athena Hall) ; BBQ + cusine</b>

<b>THURSDAY (Sept 19, 2024)</b>	
<b>08:00 - 12:00</b>	<b>2nd field trip</b>

# Detailed Programme



## POSTER PRESENTATIONS

**LOCATION OF POSTER IS ALSO INDICATED BELOW**

### POSTER PRESENTATIONS

**Session A: Sunday 9:00 to Monday 13:00**

Loc.	Sources, transport and fate of PTS	
1	ID 17	Photodegradation of halogenated derivatives of emerging contaminants under simulated sunlight <u>Dong Wan</u> , Yonghong Bi and Yong Chen
2	ID 61	Unexpected Dioxin Formation During Digestion of Soil with Oxidizing Acids Wenjing Xie, <u>Pu Wang</u> , Yanfen Hao, Xiaoguang Wang, Bolei Chen, Ligang Hu and Yong Liang
3	ID 185	Fate of BDE47 in paddy soil <u>Yao Yao</u>
4	ID 194	Research on Bromination of bisphenolic Pollutants in Plants <u>Chunguang Liu</u>
5	ID 62	Distribution and metabolism of organophosphate triesters and diesters in C56BL/6 mice via oral gavage exposure <u>Haiyan Zhang</u>
6	ID 155	Occurrence and transport of organic light-emitting materials (OLEMs) and liquid crystal monomers (LCMs) in typical urban lake, China Jing Xu, Tiantian Han, <u>Yanfen Hao</u> , Yizheng Ge, Thanh Wang, Pu Wang and Yong Liang
7	ID 116	The effects of co-existing acridine on adsorption-desorption behavior of carbazole in soils Xueqi Zhang, Mengting Li and <u>Qiming Xian</u>



8	ID 135	<b>Hexabromocyclododecanes in soils, plants, and sediments from Svalbard, Arctic: Levels, isomer-specific accumulation, and potential sources</b> Chenlou Lin and <u>Ruiqiang Yang</u>
9	ID 164	<b>Screening of Efficient Nicosulfuron Degradation Strains and Study on their Degradation Characteristics</b> Yun-Kai Jia, Ran Wang, Nan Zhou, Shuang-Jiang Liu, <u>Cheng-Ying Jiang</u> and Juanjuan Xiao
10	ID 173	<b>Light-independent degradation of methylmercury in aquatic ecosystems</b> <u>Jiating Zhao</u> and Yuxi Gao
11	ID 178	<b>Targeted screening and quantitative analysis of new pollutants in several wastewater treatment plants</b> Chaofei <u>Zhu</u> , Wenlong Yang, Haoran Liu, Wanyi Wang, Yan Wang, Yezhu Yin, Jingchen Li, Bing Du and Meiling Lu
12	ID 207	<b>Application of six-step sequential extraction for determination of nutrients mobility in paddy soils</b> <u>Veronika Cyprichová</u> and Antonio Gelsomino
<b>Loc.</b>	<b>Emerging Contaminants of Concern</b>	
13	ID 180	<b>Lung megakaryocytes engulf inhaled airborne particles to promote intrapulmonary inflammation and extrapulmonary distribution</b> Jiahuang Qiu, <u>Juan Ma</u> and Sijin Liu
14	ID 86	<b>Exposure to 4-hydroxy-4'-isopropoxydiphenylsulfone in Early Life Causes Behavioural Deficits Related with Autism Spectrum Disorders in Mice</b> <u>Shengnan Zhang</u> , Weiping Liu and Mingrong Qian
15	ID 177	<b>Occurrence and Ecological Risk of New Energy-related Persistent and Emerging Contaminants in the Yangtze River Basin</b> <u>Bao Zhu</u> , Shuping Yang, Zhen Yang, Haiyan Zhang, Jianjie Fu and Guibin Jiang
16	ID 199	<b>Removal of antibiotic contaminants by microalgae</b> <u>Petroula Seridou</u> , Sofia Monogyiou, Evdokia Syranidou and Nicolas Kalogerakis
17	ID 25	<b>Time-course adaption strategy of Tetraselmis-based consortia in response to 17<math>\alpha</math>-ethinylestradiol</b> <u>Lihua Yang</u> and Tiangang Luan
18	ID 33	<b>Selection of safe alternatives to PFOS: A comprehensive evaluation in zebrafish embryos and adults</b> Jingwen Zhang, Xiaole Wang, Chengbo Lu, Jinhua Wang and <u>Lusheng Zhu</u>
19	ID 51	<b>Health Risk for Chinese Adults and Breastfed Infants on Dietary Exposure to Organic Ultraviolet Filters</b> <u>Bing Lyu</u> , Lirong Gao, Yang Liu and Jingguang Li
20	ID 117	<b>Distribution characteristics of persistent free radicals in atmospheric particulate matter in Baoding City</b> <u>Ming-Yu Li</u> , Jiao-Jiao Xie and Chun-Gang Yuan
21	ID 150	<b>MtDNA copy number in oral epithelial cells serves as a potential biomarker of mitochondrial damage by neonicotinoids exposure: a cross-sectional study</b> <u>Quan Zhang</u>
22	ID 192	<b>Application of solubility parameters for microplastic analysis from complex environmental matrices</b> <u>Shanjun Song</u> , Zhuo Han, Xiaofei Wei and Yan Gao
23	ID 202	<b>Pesticide and plastic degradation by soil microorganisms</b> <u>Sofia Monogyiou</u> , Katerina Karkanorachaki, Evdokia Syranidou, Petroula Seridou and Nicolas Kalogerakis

24	ID 206	<b>The Environmental Risks Associated with Lithium Pollution in the Context of Carbon Neutrality Strategies</b> <u>Xuezhi Yang</u> , Haiyan Zhang, Jianjie Fu, Qian Liu and Guibin Jiang
Loc.	<b>Toxicology and Eco-toxicology of PTS</b>	
25	ID 13	<b>Mild activation of endoplasmic reticulum unfolded protein response conferred cadmium resistance in <i>C. elegans</i></b> <u>Shunchang Wang</u> , Dandan Zhu and Mei He
26	ID 22	<b>Effect of maternal 6:2 fluorotelomer alcohol exposure on brain development in offspring: damage of blood-brain barrier and disturbance of brain immune microenvironment</b> Yunhui Xia, Chunni Zhang, Lan Luo and <u>Dongmei Li</u>
27	ID 24	<b>An ABCG-type transporter intensifies ametryn catabolism by phase iii reaction mechanism in rice</b> Yuxin Qiao and <u>Hong Yang</u>
28	ID 35	<b>The toxic effects of perfluoroalkyl and polyfluoroalkyl substances (PFASs) to <i>Daphnia magna</i> using proteomics methods</b> Mengdie Huang, Tiangang Luan and <u>Li Lin</u>
29	ID 50	<b>The metabolic disrupting effects of novel brominated flame retardants on zebrafish</b> <u>Yuxi Zhou</u> , Kaiyu Fu, Lihua Yang and Bingsheng Zhou
30	ID 90	<b>Exploring the neurotoxic mechanism of PM2.5 from the olfactory system perspective</b> <u>Daqiang Yin</u> , Yiqing Cao, Weihai Pang and Xueping Guo
31	ID 95	<b>Environmentally relevant concentrations of 2,3,7,8-TCDD induced inhibition of multicellular alternative splicing and transcriptional dysregulation</b> <u>Xinyan Li</u>
32	ID 105	<b>Exploring immune responses and hematopoietic effects of gadolinium oxide nanoparticles: insights into rare earth element nanoparticle interaction with the immune system in vivo</b> Gang Tang, Ziniu Wang, <u>Jie Gao</u> and Yang Song
33	ID 109	<b>Heterogeneous accumulation of Hg and Pb mixture in aquatic unicellular organism using mass cytometry</b> <u>Guangbo Qu</u> and Qi Wu
34	ID 121	<b>Bio-effects of Arsenic-contaminated Soil in the tailing area, China</b> <u>Ying Zhang</u> , Yueran Wang, Xiaoping Zhu and Xianghao Hou
35	ID 131	<b>Biochemical and Molecular Responses of Maize (<i>Zea mays</i> L.) to TBECH Diastereomers</b> <u>Honglin Huang</u> , Dong Cao, Fanglan Geng, Ziyu Rao and Yuehui Kang
36	ID 195	<b>2-ethylhexyl diphenyl phosphate causes obesity in zebrafish by stimulating overeating via inhibition of dopamine receptor D2</b> <u>Wenjue Zhong</u> , Rongyan Yang and Lingyan Zhu
37	ID 65	<b>Effects of Difenconazole on Soil Microbial Community Structure, Function and ARGs Transmission</b> Wenjie Zhang, Baihui Shi, Yuanfei Gao, Shengfang Wen, Hunan Liu, Yannan Xue, Lusheng Zhu and <u>Jinhua Wang</u>
38	ID 63	<b>Combinatorial immune and stress response, cytoskeleton and signal transduction effects of graphene and triphenyl phosphate (TPP) in mussel <i>Mytilus galloprovincialis</i></b> <u>Fei Li</u> , Xiaoqing Wang and Huifeng Wu
39	ID 73	<b>Effects of Multiple Novel Bisphenol S Analogs on Adipogenesis in 3T3-L1 Cells</b> <u>Zhendong Sun</u> , Qunfang Zhou and Guibin Jiang
40	ID 167	<b>Soil microbiomes divergently respond to heavy metals and polycyclic aromatic hydrocarbons in contaminated industrial sites</b> <u>Zhen-Ni Yang</u> , Cheng-Ying Jiang and Shuang-Jiang Liu

41	ID 171	<b>Disruptions of Lipid Metabolism and SET-53BP1 Regulatory Axis in Hexavalent Chromium-Induced Lung Cancer</b> <u>Shuai Jiang, Mingyang Zuo, Haofeng Lin, Xuerao Lan and Xiaohu Ren</u>
<b>Loc.</b>	<b>Microplastics and Nanoplastics</b>	
42	ID 05	<b>Concurrence of microplastics and heat waves reduces rice yields and disturbs the agroecosystem nitrogen cycle</b> <u>Li Mu</u>
43	ID 78	<b>Classification and quantification of microplastics in the marine coastal environment of a sandy beach in the city of Chania</b> <u>Nikolaos Danis and Eleftheria Katsivela</u>
44	ID 201	<b>The role of secondary polypropylene microplastics in the formation of marine colloidal aggregates</b> <u>Katerina Karkanorachaki, Evdokia Syranidou and Nicolas Kalogerakis</u>
45	ID 158	<b>Polystyrene microplastics facilitate the transfer of ZnO nanoparticles from the algae to daphnia in the aquatic food chain</b> <u>Fei Ge, Na Liu, Qiting Xie, Ruohua Qu and Jingyi Guo</u>
46	ID 04	<b>Fabrication of chitosan-modified magnetic durian shell biochar for removal of the microplastics</b> <u>Shan Wang</u>
47	ID 11	<b>Polylactic acid microplastic affect soil microeukaryotic communities</b> <u>Lin Xiao</u>
48	ID 18	<b>Effects of nanoplastics exposure on intestinal health: A mouse experiment</b> <u>Xiaodong Han and Lei Huang</u>
49	ID 56	<b>Interactions between Methyl Octabromoether Flame Retardants and Expandable Polystyrene Microplastics in the Photoaging Process</b> <u>Shixiang Gao</u>
50	ID 101	<b>Visible light powered soft actuators for removal of microplastics</b> <u>Guan Xi, Congting Yu and Tiangang Luan</u>
51	ID 103	<b>Mechanisms of alternating anoxic-oxic condition enhancing microplastic degradation in the sediment</b> <u>Shanshan Chen</u>
52	ID 154	<b>Polyethylene terephthalate nanoplastics regulates the quality of Nicotiana benthamiana</b> <u>Xian-Zheng Yuan</u>

**Loc. = Poster Location in the MINOA PALACE poster area**

# POSTER PRESENTATIONS

**Session B: Monday 14:00 to Tuesday 16:00**

Loc.	Analytical and Bioanalytical Methods	
1	ID 168	<b>Enrichment analysis of non-steroidal anti-inflammatory drugs in water and milk using cationic metal-organic framework membrane</b> Hai-Long Jiang, Ru-Song Zhao and <u>Xia Wang</u>
2	ID 198	<b>Quantification of pesticides without standard substances in biomonitoring through suspect screening analysis</b> Chi Zhang, Dawei Chen and <u>Yan Bao</u>
3	ID 70	<b>Characterization of metal nanoparticles in biological samples by ICP-MS technique</b> <u>Lihong Liu</u> , Qinfei Zhou, Bin He, Ligang Hu and Guibin Jiang
4	ID 85	<b>Application of a ready-to-use cell sensor for dioxins and dioxin-like compounds screening in meat samples</b> <u>Yangsheng Chen</u> , Li Xu, Songyan Zhang and Bin Zhao
5	ID 161	<b>In-depth profiling of di(2-ethylhexyl) phthalate metabolic footprints in rats using click chemistry-mass spectrometry probes</b> <u>Yuning Hu</u> , Jintao Zhan, Peirong Bai, Na An, Junjie Tan, Yanzhen Wang, Quanfei Zhu and Yuqi Feng
6	ID 19	<b>Hydroxyl-containing triazine-based conjugated microporous polymers for solid phase extraction of fluoroquinolone antibiotics in the environment and food samples</b> <u>Ru-Song Zhao</u>
7	ID 26	<b>A quantitative method for aquaporin-1 protein using magnetic preconcentration and probe-based immunoassay coupling to ICP-MS in urine analysis</b> <u>Ruohong Chen</u> , Shuang Zhao, Baowei Chen and Tiangang Luan
8	ID 31	<b>Magnetic conjugated microporous polymer for rapid extraction and sensitive analysis of trace estrogens in environmental waters and dairy products</b> <u>Hai-Long Jiang</u> , Ru-Song Zhao and Xia Wang
9	ID 74	<b>Expanding the Concerned List of Priority Polycyclic Aromatic Compounds Utilizing High-Resolution Mass Spectrometry Assisted by In Silico Predictions</b> Tingyu Li, <u>Ting Ruan</u> and Guibin Jiang
10	ID 98	<b>Exploring the Accumulation Behavior and Heterogeneity of Perfluorooctanesulfonic Acid in Zebrafish Primary Organ Cells by Single-Cell Mass Cytometry</b> <u>Jiewei Deng</u> , Yunyun Yang and Tiangang Luan
11	ID 100	<b>Platinum Nanoparticle Assemblies for ultra-sensitive Detection of Mercury ion</b> <u>Fan Zhang</u> , Tianyu Guo and Tigang Luan
12	ID 110	<b>Developing a robust method integrating with selective membrane-based preconcentration and signal amplification for field virus detection</b> <u>Tiangang Luan</u> and Ruohong Chen
13	ID 149	<b>Analyzing DNA/RNA Modifications changed by Environmental Exposure: Approaches Based on HPLC-MS/MS</b> <u>Weiyi Lai</u> , Rui Zhang, Xingrui Song and Hailin Wang

14	ID 169	<b>Simultaneous magnetic solid-phase extraction of lead and mercury species with magnetic hydrazine-linked covalent organic frameworks nanocomposite</b> Xiaolai Zhang, Heping Jiao and <u>Zhenhua Wang</u>
Loc.	<b>Risk assessment of PTS, and modeling their fate and toxicity</b>	
15	ID 107	<b>Assessment of dietary chlorinated paraffins intake and exposure risk for the rural Tibetan Plateau population</b> Wei Zhou, <u>Jianjie Fu</u> and Guibin Jiang
16	ID 182	<b>Evaluation from an ecotoxicological perspective of the effectiveness of different remediation technologies within the framework of the greener and biosysmo projects</b> <u>Patricia Solorzano</u> , Dalia de la Fuente Vivas, Sara Gil Guerrero, Rubén Martínez, Rocío Barros, Carlos Rumbo, Verónica González, Sara Collado, Sandra de la Parra, Martí Aliaguilla, Eduard Borràs and Socorro Vázquez-Campos
Loc.	<b>Mitigation and Remediation of PTS, Emerging, and Other Contaminants</b>	
17	ID 20	<b>Potential of a novel endophytic diazotrophic Serratia sp. Wed4 for pyrene biodegradation</b> <u>Xuezhu Zhu</u>
18	ID 39	<b>Rice OsPDR gene could enhance the transport of metallic cobalt into vacuoles in yeast and improve its cobalt tolerance</b> Siqi Tian and <u>Tuanyao Chai</u>
19	ID 01	<b>Generation of chlorinated by-products of phenol degradation in groundwater by persulfate and hydrogen peroxide system</b> <u>Yuxiu Zhang</u> and Hui Wang
20	ID 181	<b>Nanobiodegradation: Bionanoparticles from bioactive substances, bacteria and their use for PCB removal</b> <u>Marcela Tlčíková</u> , Hana Horváthová, Katarína Dercová, Katarína Turanská and Lubomír Jurkovič
21	ID 43	<b>New barrier role of iron plaque: producing interfacial hydroxyl radicals to degrade rhizosphere pollutants</b> <u>Guo-Ping Sheng</u> and Xin Zhang
22	ID 76	<b>Arsenic Detoxification in Multiple Operating Conditions of Coal-Fired Power Plants Through Environmentally Friendly Sorbents</b> <u>Xin-Peng Ma</u> , Guang Yang, Chun-Gang Yuan, Song-Yao Liu, Jiao-Jiao Xie and Yuan-Peng Li
23	ID 79	<b>Coating TiO<sub>2</sub> with MIL-101(Fe) to decarboxylate D-Glu and D-MeAsp of Microcystin-LR from HA-Rich Water: diminishing the inhibitory effect of humic acids</b> <u>Lixia Zhao</u>
24	ID 112	<b>Experimental study mercury removal of ZnS-doped natural sepiolite prepared with mechanochemical method</b> <u>Miao Bian</u> , Xue-Lei Duan, Li Qi Li and Chun Gang Yuan
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26	ID 130	<b>Bioremediation of heavy metals by deep subseafloor Penicillium funiculosum 14R-2-F01</b> Changhong Liu, <u>Yarong Xue</u> , Fayun Feng, Shuang Leng and Dongxu Li
27	ID 140	<b>Persulfate activation with biochar by supported nano-zero valent iron: Engineering application for effective degradation of NCB in soil</b> Yang Guo, <u>Cheng Sun</u> and Tao Long
28	ID 146	<b>Organic and mineral materials as factors reducing the effect of diesel oil on trace element content in soi</b> <u>Mirosław Wyszowski</u> and Natalia Kordala

29	ID 179	<b>Amorphous Bi<sub>6</sub>O<sub>5</sub>(OH)<sub>3</sub>(NO<sub>3</sub>)<sub>5</sub>(H<sub>2</sub>O)<sub>3</sub> coupled BiOIO<sub>3</sub> nanosheets for photodegradation of organic pollutants</b> Hao Huang, Hui-Long Wang and <u>Wenfeng Jiang</u>
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30	ID 102	<b>Per- and polyfluoroalkyl substances acute exposure disrupt the neuronal electrophysiological activity</b> <u>Jia Gao</u> , Chunyang Liao and Guibin Jiang
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