

# 18<sup>th</sup> International Symposium on Persistent Toxic Substances and Health

# Detailed Programme



(as of August 06, 2024)

## REGISTRATION DESK IS OPEN:

Saturday afternoon (Sept 14):

12:00 – 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: TBA
PL 01	<i>Sustainable wastewater engineering: Myths, perceptions, perspectives and advances</i> Professor Dionissios Mantzavinos 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)

SUNDAY (Sept 15, 2024)	
09:00 - 09:45	Opening Ceremony – ROOM A
	Welcome by Conference co-Chairs - N. Kalogerakis, Guibin Jiang & Rong Ji Greetings by Local Authorities (Mayor of Chania, Mayor of Platanias) Rector, Technical University of Crete
09:45 - 10:30	PLENARY LECTURE #2 – ROOM A Chairpersons: TBA
PL 02	<i>Merits and Limitations of Various Advanced Oxidation Processes for PFAS Degradation</i> Professor Pedro Alvarez Civil & Environmental Engineering, Rice University, Houston, USA.
10:30 - 11:00	Coffee break & Poster viewing (Session A)

<b>11:00 - 13:00</b>	<b>SESSION - 1A: Toxicology and eco-toxicology of PTS – I (ROOM A)</b> <b>Chairpersons: TBA</b>
<b>ID 171</b>	<b>Disruptions of Lipid Metabolism and SET-53BP1 Regulatory Axis in Hexavalent Chromium-Induced Lung Cancer</b> <u>Shuai Jiang</u> , Mingyang Zuo, Haofeng Lin, Xuerao Lan and Xiaohu Ren
<b>ID 03</b>	<b>Serum apolipoprotein A-I depletion is causative to silica nanoparticles-induced cardiovascular damage</b> <u>Yang Song</u>
<b>ID 07</b>	<b>Triclosan and triclocarban disturbed intestinal epithelial homeostasis by suppressing intestinal stem cells differentiation into intestinal epithelial cells: Insights from organoid model</b> Xiaowen Cheng, Biao Chen, Shengmin Xu and <u>Lijun Wu</u>
<b>ID 38</b>	<b>Transition metal nanoparticles induce ferroptosis</b> Bingyan Liu and <u>Wei Jiang</u>
<b>ID 203</b>	<b>Nanoplastic toxicity in <i>Daphnia magna</i>: the role of the protein corona</b> <u>Ana Quevedo</u> , Korin Wheeler, Owen Armstrong, Kathryn R. Riley and Nathalie Tufenkji
<b>ID 106</b>	<b>Developmental and Neurotoxic Effects and Mechanisms of Perfluoroalkyl Phosphinic Acids on Aquatic Organisms</b> <u>Lingyan Zhu</u> , Tianxu Zhang, Wenjue Zhong, Shujun Yi and Yumin Zhu
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 63</b>	<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
<b>ID 73</b>	<b>Effects of Multiple Novel Bisphenol S Analogs on Adipogenesis in 3T3-L1 Cells</b> <u>Zhendong Sun</u> , Qunfang Zhou and Guibin Jiang
<b>ID 167</b>	<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
<b>11:00 - 13:00</b>	<b>SESSION - 1B: Emerging contaminants of concern-I (ROOM B)</b> <b>Chairpersons: TBA</b>
<b>ID 209 Keynote</b>	<b>Tackling emerging contaminants and pharma wastewater - the METFILTER solution</b> <u>Abraham Esteve Núñez</u>
<b>ID 47</b>	<b>Changes in Gut Microbiota Structure: A Potential Pathway for Silver Nanoparticles to Affect the Host Metabolism</b> <u>Xinlei Wang</u> , Si Wei and Aijun Miao
<b>ID 138</b>	<b>Examining Staphylococcal Enterotoxin Gene Diversity in Marine Fish Samples from Fisherfolk and Retail Markets: Implications for Public Health</b> Kannan Kamala, <u>Pitchiah Sivaperumal</u> and Dhanraj Ganapathy
<b>ID 145</b>	<b>Typical Neonicotinoids and Organophosphate Esters Adversely Impact Early Human Development by Activating BMP4 Signaling</b> <u>Shuxian Zhang</u> , Renjun Yang, Nuoya Yin and Francesco Faiola
<b>ID 125</b>	<b>Exposure to methylparaben advances pubertal onset by activating hypothalamic neuroendocrine cells</b> <u>Linping Wang</u> and Jing Liu
<b>ID 83</b>	<b>Screening of emerging contaminants in stack gas from cement kiln co-processing hazardous waste</b> Changzhi Chen, <u>Guorui Liu</u> and Minghui Zheng
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 180</b>	<b>Lung megakaryocytes engulf inhaled airborne particles to promote intrapulmonary inflammation and extrapulmonary distribution</b>

	Jiahuang Qiu, <u>Juan Ma</u> and Sijin Liu
<b>ID 86</b>	<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
<b>11:00 - 13:00</b>	<b>SESSION – 1C: Microplastics and nanoplastics – I (ROOM C)</b> <b>Chairpersons: TBA</b>
<b>ID 210 Keynote</b>	<b>Breaking down boundaries: the enzymatic degradation of designer polymers</b> <u>Patrick Shahgaldian</u>
<b>ID 14</b>	<b>Mie Scattering Method for In Situ and Rapid Detection of Trace Nanoplastics in Water</b> Lei Mou, Ruilong Li, Yaxian Zhu and <u>Yong Zhang</u>
<b>ID 37</b>	<b>Environmental fate and transport of tire wire micro- and nanoparticles</b> <u>Wei Chen</u>
<b>ID 132</b>	<b>Fate of nanoparticles and chemicals released from tire crumb rubber in model groundwater environments</b> <u>Georgina Kalogerakis</u> and Nathalie Tufenkji
<b>ID 97</b>	<b>Development of analytical methods for microplastics and nanoplastics</b> <u>Siyuan Jing</u> , Yanting Wang, Yunqian Chen and Thomas Wanger
	<b>FLASH ORAL PRESENTATIONS:</b>
<b>ID 05</b>	<b>Concurrence of microplastics and heat waves reduces rice yields and disturbs the agroecosystem nitrogen cycle</b> <u>Li Mu</u>
<b>ID 78</b>	<b>Classification and quantification of microplastics in the marine coastal environment of a sandy beach in the city of Chania</b> <u>Nikolaos Danis</u> and Eleftheria Katsivela
<b>13:00 - 14:30</b>	<b>LUNCH (Minoa Palace Hotel - Elia restaurant)</b>

<b>14:40 - 15:30</b>	<b>PLENARY LECTURE #4 – ROOM A</b> <b>Chairpersons: TBA</b>
<b>PL 03</b>	<i>Fate of airborne ultrafine particles and microfibers in the human respiratory tract and transport to the olfactory region</i> <b>Professor Mihalis Lazaridis</b> <i>Chemical &amp; Environmental Engineering, Technical University of Crete, Chania, Greece.</i>
<b>15:30 - 16:00</b>	<b>Coffee break &amp; Poster viewing (Session A)</b>

<b>16:00 - 18:30</b>	<b>SESSION - 2A: Toxicology and eco-toxicology of PTS – II (ROOM A)</b> <b>Chairpersons: TBA</b>
<b>ID K10 Keynote</b>	<b>Understanding the cell signaling dynamics by creating redox cell models</b> <u>Bin Yan</u>

<b>ID 53</b>	<b>New insights into decabromodiphenyl ethane induced male reproductive toxicity from multi-omic analysis: energy reprogramming in germ cells</b> <u>Lihua Yang</u> , Yindan Zhang, Jianghuan Hua and Bingsheng Zhou
<b>ID 68</b>	<b>Impact of anthropogenic nutrient inputs on mercury (Hg) transformation in water body and bioaccumulation by fish</b> <u>Jiajia Li</u> , Yongmin Wang, Tao Jiang, Cheng Zhang, Yuping Xiang and Dingyong Wang
<b>ID 106</b>	<b>Developmental and neurotoxic effects and mechanisms of perfluoroalkyl phosphinic acids on aquatic organisms</b> <u>Lingyan Zhu</u> , Tianxu Zhang, Wenjue Zhong, Shujun Yi and Yumin Zhu
<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> <u>Chaoyu Tong</u> and Jing Liu
<b>ID 143</b>	<b>Environmental Pollution Toxicity Research Based on Toxicology Big Data Analysis</b> <u>Renjun Yang</u> , Nuoya Yin and Francesco Faiola
<b>16:00 - 18:30</b>	<b>SESSION – 2B: Emerging contaminants of concern-II (ROOM B)</b> <b>Chairpersons: TBA</b>
<b>ID K151</b>	<b>Molecular Design of Polymer Materials for Capture of PFAS from Aqueous Media</b> Marina Tsianou, Dmitry Bedrov and <u>Paschaljs Alexandridis</u>
<b>ID 32</b>	<b>Photoinitiators: From Environmental Pollution to Human Exposure</b> Xiaomeng Ji, Jiefeng Liang and <u>Runzeng Liu</u>
<b>ID 118</b>	<b>Insights of Micropollutants in the Process of Reclaimed Water Replenishment in an Artificial Reservoir</b> Dan Qin, <u>Qian Sun</u> , Qiaoting Zeng and Habasi Patrick Manzi
<b>ID 147</b>	<b>Targeted, suspect and non-targeted screening of per- and polyfluoroalkyl substances in milk</b> <u>Yan Gao</u> , Yaoyao Li, Shenzheng Sun, Xiuqin Li, Shanjun Song and Qinghe Zhang
<b>ID 96</b>	<b>Intelligent Non-targeted Analysis of Perfluoroalkyl Substances</b> <u>Si Wei</u>
<b>ID 208</b>	<b>Attaining Parts Per Quadrillion (ppq) Level Quantitation of PFAS in Untreated Water and Drinking Water</b> <u>Huiyong Lian</u>
<b>ID 190</b>	<b>Fate of perfluorinated substances and benzotriazoles during anaerobic digestion of sewage sludge with the addition of conductive materials</b> <u>Michail Fountoulakis</u> , Michail Deligiannis, Evdokia Gkalipidou, Georgia Gatidou, Olga Arvaniti, Nikolaos Thomaidis, Ioannis Vyrides and Athanasios Stasinakis
	<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> <u>Bao Zhu</u> , Shuping Yang, Zhen Yang, Haiyan Zhang, Jianjie Fu and Guibin Jiang
<b>ID 199</b>	<b>Removal of antibiotic contaminants by microalgae</b> <u>Petroula Seridou</u> , Sofia Monogyiou, Evdokia Syranidou and Nicolas Kalogerakis
<b>ID 206</b>	<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
<b>16:00 - 18:30</b>	<b>SESSION – 2C: Microplastics and nanoplastics-II (ROOM C)</b> <b>Chairpersons: TBA</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 54</b>	<b>Single-cell Raman spectroscopy exploration of life in plastisphere: antibiotic resistant and plastic-responsive bacteria</b> <u>Li Cui</u> and Hongqin Guo
<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 55</b>	<b>Atmospheric transport of microplastics from land to sea is inefficient: Evidence from multimedia observations</b> <u>Xiangrong Xu</u>
<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> , Evi Syranidou and Nicolas Kalogerakis
<b>ID 158</b>	<b>Polystyrene microplastics facilitate the transfer of ZnO nanoparticles from the algae to daphnia in the aquatic food chain</b> <u>Fei Ge</u> , Na Liu, Qiting Xie, Ruohua Qu and Jingyi Guo
<b>19:00 - 21:00</b>	<b>DINNER (Athena Hall) sponsored by AGILENT TECHNOLOGIES</b> <b>Greetings by VP Agilent Technologies (China)</b>

## MONDAY (Sept 16, 2024)

<b>08:40 - 09:30</b>	<b>PLENARY LECTURE #4 – ROOM A</b> <b>Chairpersons: TBA</b>
<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>
<b>9:30 – 10:30</b>	<b>SESSION – 3A: Toxicology and eco-toxicology of PTS – III (ROOM A)</b> <b>Chairpersons: TBA</b>
<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
<b>19:00 – 20:30</b>	<b>SESSION – 3B: Sources, transport and fate of PTS – I (ROOM B)</b> <b>Chairpersons: TBA</b>

<b>ID K211 Keynote</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, Qingqing Zhu, Chunyang Liao and Guibin Jiang</u>
<b>FLASH ORAL PRESENTATIONS:</b>	
<b>ID 185</b>	<b>Fate of BDE47 in paddy soil</b> <u>Yao Yao</u>
<b>19:00 – 20:30</b>	<b>SESSION – 3C: Microplastics and nanoplastics – III (ROOM C)</b> <b>Chairpersons: TBA</b>
<b>ID K208 Keynote</b>	<b>Fate of (bio)plastics in the natural environment</b> <u>Evdokia Syranidou</u>
<b>ID 06</b>	<b>Using 14C-tracer to study the degradation of polystyrene</b> <u>Rong Ji</u>
<b>ID 189</b>	<b>Transport of plastic debris from land to deep seas</b> <u>Eddy Zeng, Lei Mai and Xiangfei Sun</u>
<b>10:30 - 11:00</b>	<b>Coffee break &amp; Poster viewing (Session A)</b>

<b>11:00 - 13:00</b>	<b>SESSION - 4A: Effects of PTS on human health – I (ROOM A)</b> <b>Chairpersons: TBA</b>
<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, Jinming Liu and Xing Jiang</u>
<b>ID 75</b>	<b>Association between human exposure to novel flame retardants and type II diabetes risk</b> <u>Gaoxin Zhang, Yingming Li and Qinghua Zhang</u>
<b>ID 77</b>	<b>Effects of Pyrethroid Insecticides on Gestational Diabetes Mellitus and Glucose Homeostasis</b> <u>Yubing Ma, Yile Wei and Jing Liu</u>
<b>ID 82</b>	<b>COPD-like Phenotypes in TBC-treated Mice Can be Effectively Alleviated via Estrogen Supplement</b> <u>Wenjuan Zhang, Ling Wang, Mengxi Cao, Huiming Cao and 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> <u>Song Jiayi, Zhang Jianqing and Xuan Zou</u>
<b>ID 139</b>	<b>The Evaluation of Persistent Toxic Substances' Adverse Health Effects through Stem Cell Toxicology</b> <u>Francesco Faiola, Nuoya Yin and Renjun Yang</u>
<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, Chunyang Liao and Guibin Jiang</u>
<b>11:00 - 13:00</b>	<b>SESSION - 4B: Sources, transport and fate of PTS – I (ROOM B)</b> <b>Chairpersons: TBA</b>
<b>ID K27 Keynote</b>	<b>N-Containing Organics Aerosol Formation by an on-line VACES</b> <u>Jianmin Chen, Xiaona Shanghai, Munira Abdumutallip, Zongwei Cai and Christian George</u>

<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</b>	<b>SESSION – 4C: Mitigation and remediation of PTS, emerging, and other contaminants – I (ROOM C)</b> <b>Chairpersons: TBA</b>
<b>ID 213 Keynote</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 39</b>	<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>
<b>13:00 - 14:30</b>	<b>LUNCH (Minoa Palace Hotel - Elia restaurant)</b>

14:40 - 15:30	<b>PLENARY LECTURE #4 – ROOM A</b> <b>Chairpersons: TBA</b>
<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>
15:30 - 16:00	<b>Coffee break &amp; Poster viewing (Session B)</b>
16:00 - 18:30	<b>SESSION - 5A: Effects of PTS on human health – II (ROOM A)</b> <b>Chairpersons: TBA</b>
<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>ID 165</b>	<b>Epigenetic effects of occupational exposure in european 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 52</b>	<b>Association of per- and polyfluoroalkyl substance (PFAS) levels in chinese adults with thyroid hormone homeostasis</b> <u>Yanan Xing</u> and <u>Jiayin Dai</u>
<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 111</b>	<b>Air pollution and olfactory impairment</b> <u>Ting Xu</u> , Yawen Chen, Xueping Guo and Daqiang Yin
<b>ID 191</b>	<b>The partitioning and distribution of neonicotinoid insecticides in human blood</b> <u>Quan Zhang</u> 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> <u>Quan Zhang</u> and <u>Zongqi Hu</u>
<b>ID 204</b>	<b>The role of tea rinsing process in the residues and expoure risks of neonicotinoid insecticides in six types of tea</b> <u>Haoyu Zhang</u> and <u>Quan Zhang</u>
<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 <u>Quan Zhang</u>
	<b>FLASH ORAL PRESENTATIONS:</b>
<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> <u>Jiajun Jing</u> , 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>
16:00 - 18:30	<b>SESSION – 5B: Sources, transport and fate of PTS – II (ROOM B)</b> <b>Chairpersons: TBA</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 92</b>	<b>Arsenic and cadmium contamination in rice and mitigation strategies</b> <u>Fang-Jie Zhao</u>
<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, Jiyan Liu and <u>Guibin Jiang</u>
<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 - 18:30</b>	<b>SESSION – 5C: Mitigation and remediation of PTS, emerging, and other contaminants – II (ROOM C)</b> <b>Chairpersons: TBA</b>
<b>ID K216 Keynote</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 unknown 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 Velloza 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 and <u>Lixiang Zhou</u>
<b>FLASH ORAL PRESENTATIONS:</b>	
<b>ID 01</b>	<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
<b>ID 181</b>	<b>Nanobiodegradation: Bionanoparticles from bioactive substances, bacteria and their use for PCB removal</b>

	Marcela Tlčíková, Hana Horváthová, Katarína Dercová, Katarína Turanská and Lubomír Jurkovič
19:00 - 23:00	GALA DINNER (busses leave at 18:45)

## TUESDAY (Sept 17, 2024)

08:40 - 09:15	<b>PLENARY LECTURE #4 – ROOM A</b> Chairpersons: TBA
PL 06	<i>The role of bioeconomy in the restoration of degraded lands and seas</i> <b>Professor Fabio Fava</b> <i>Department of Civil, Chemical, Environmental and Materials Engineering, Alma Mater Studiorum-Università di Bologna, Italy</i>

9:15 – 10:30	<b>SESSION – 6A: Analytical and bioanalytical methods – I (ROOM A)</b> Chairpersons: TBA
ID 28	Advancements in DNA Nanotechnology for Imaging and Modulating Key Molecules in Living Cells Aijiao Yuan, Wenjing Xie and <u>Hanyong Peng</u>
ID 46	Developing high-performance whole-cell biosensors for pollution monitoring using direct evolution of toxic metal transcription factors <u>Shaopeng Chen</u>
ID 94	Multidimensional characterization of particulate matter and molecular mechanism of degradation <u>Xiu Huang</u>
	<b>FLASH ORAL PRESENTATIONS:</b>
ID 168	Enrichment analysis of non-steroidal anti-inflammatory drugs in water and milk using cationic metal-organic framework membrane Hai-Long Jiang, Ru-Song Zhao and <u>Xia Wang</u>
ID 198	Quantification of pesticides without standard substances in biomonitoring through suspect screening analysis Chi Zhang, Dawei Chen and <u>Yan Bao</u>
ID 161	In-depth profiling of di(2-ethylhexyl) phthalate metabolic footprints in rats using click chemistry-mass spectrometry probes <u>Yuning Hu</u> , Jintao Zhan, Peirong Bai, Na An, Junjie Tan, Yanzhen Wang, Quanfei Zhu and Yuqi Feng
ID 176	Bilirubin analogues: nature-based solution to heavy metal chelation <u>Sadhna Mathura</u>
19:00 – 20:30	<b>SESSION – 6B: Nature-based solutions for tackling PTS contamination (ROOM B)</b> Chairpersons: TBA
ID K152 Keynote	Focusing on micro- to enhance the macro-scale (electro)bioremediation of oily wastewater <u>Argyro Tsipa</u>
ID 156	Transformation and degradaton of tebuconazole and its metabolites in vertical flow constructed wetlands with the colonization of arbuscular mycorrhizal fungi Yingrun Chen and <u>Zhongbing Chen</u>
ID 183	Catching PFAS: Engineering the plant microbiome for PFAS remediation <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>19:00 – 20:30</b>	<b>SESSION – 6C: Mitigation and remediation of PTS, emerging, and other contaminants – III (ROOM C)</b> <b>Chairpersons: TBA</b>
<b>ID K214 Keynote</b>	<b>Remediation of effluents from mining and metallurgical activities: challenges and opportunities</b> <u>Georgios Kolliopoulos</u>
<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>10:30 - 11:00</b>	<b>Coffee break &amp; Poster viewing (Session B)</b>
<b>11:00 - 13:00</b>	<b>SESSION - 7A: Analytical and bioanalytical methods – II (ROOM A)</b> <b>Chairpersons: TBA</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 215</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 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>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>ID 175</b>	<b>Development and application of high-throughput toxicity screening assays for emerging contaminants</b> <u>Xiaoxi Yang</u> , Qunfang Zhou, Guangbo Qu and Guibin Jiang
<b>11:00 - 13:00</b>	<b>SESSION - 7B: Risk assessment of PTS, and modeling their fate and toxicity (ROOM B)</b> <b>Chairpersons: TBA</b>
<b>ID TBA</b> Keynote	
<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 49</b>	<b>Integrating Multiple Bacterial Phenotypes and Bayesian Network for Analyzing Health Risks of Pathogens in Plastisphere</b> <u>Hong-Zhe Li</u> , Li Cui and Yong-Guan Zhu
<b>ID 108</b>	<b>Contribution of Continued Dermal Exposure of PFAS-containing Sunscreens to Internal Exposure: Extrapolation from in Vitro and in Vivo Tests to Physiologically Based Toxicokinetic Models</b> <u>Shujun Yi</u> , Qiaoying Chen and Lingyan Zhu
<b>ID 153</b>	<b>Predicting Acute Toxicity of Organic Compounds Using Graph Neural Networks</b> <u>Wei Wang</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>13:00 - 14:30</b>	<b>LUNCH (Minoa Palace Hotel - Elia restaurant)</b>

14:40 - 15:30	<b>PLENARY LECTURE #7 – ROOM A</b> <b>Chairpersons: TBA</b>
PL 07	<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>
15:30 - 16:15	<b>Coffee break &amp; Poster viewing (Session B)</b>

16:15 – 16:45	<b>PLENARY LECTURE #8 – ROOM A</b> (sponsored by AGILENT TECHNOLOGIES)
16:45 – 17:30	<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)
17:30 – 17:50	<b>CLOSING CEREMONY</b>
17:50 – 18:10	<b>Presentation by Fabio Fava of upcoming ISPTS-2026</b>
19:00 - 21:00	<b>DINNER (Minoa Palace Hotel, Athena Hall)</b>

<b>WEDNESDAY (Sept 18, 2024)</b>	
08:00 - 18:00	<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>
19:00 - 21:00	<b>DINNER (Minoa Palace Hotel, Athena Hall)</b>

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

# Detailed Programme

## POSTER PRESENTATIONS

(as of August 06, 2024)



## POSTER PRESENTATIONS

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

### Sources, transport and fate of PTS

ID 17	<b>Photodegradation of halogenated derivatives of emerging contaminants under simulated sunlight</b> <u>Dong Wan</u> , Yonghong Bi and Yong Chen
ID 61	<b>Unexpected Dioxin Formation During Digestion of Soil with Oxidizing Acids</b> Wenjing Xie, <u>Pu Wang</u> , Yanfen Hao, Xiaoguang Wang, Bolei Chen, Ligang Hu and Yong Liang
ID 185	<b>Fate of BDE47 in paddy soil</b> <u>Yao Yao</u>
ID 194	<b>Research on Bromination of bisphenolic Pollutants in Plants</b> <u>Chunguang Liu</u>
ID 62	<b>Distribution and metabolism of organophosphate triesters and diesters in C56BL/6 mice via oral gavage exposure</b> <u>Haiyan Zhang</u>
ID 155	<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
ID 116	<b>The effects of co-existing acridine on adsorption-desorption behavior of carbazole in soils</b> Xueqi Zhang, Mengting Li and <u>Qiming Xian</u>

<b>ID 135</b>	<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>
<b>ID 164</b>	<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
<b>ID 173</b>	<b>Light-independent degradation of methylmercury in aquatic ecosystems</b> <u>Jiating Zhao</u> and Yuxi Gao
<b>ID 178</b>	<b>Targeted screening and quantitative analysis of new pollutants in several wastewater treatment plants</b> <u>Chaofei Zhu</u> , Wenlong Yang, Haoran Liu, Wanyi Wang, Yan Wang, Yezhu Yin, Jingchen Li, Bing Du and Meiling Lu
<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>Emerging Contaminants of Concern</b>	
<b>ID 180</b>	<b>Lung megakaryocytes engulf inhaled airborne particles to promote intrapulmonary inflammation and extrapulmonary distribution</b> Jiahuang Qiu, <u>Juan Ma</u> and Sijin Liu
<b>ID 86</b>	<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
<b>ID 177</b>	<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
<b>ID 199</b>	<b>Removal of antibiotic contaminants by microalgae</b> Petroula Seridou, Sofia Monogyiou, Evdokia Syranidou and Nicolas Kalogerakis
<b>ID 25</b>	<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
<b>ID 33</b>	<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>
<b>ID 51</b>	<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
<b>ID 117</b>	<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
<b>ID 150</b>	<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>
<b>ID 192</b>	<b>Application of solubility parameters for microplastic analysis from complex environmental matrices</b> <u>Shanjun Song</u> , Zhuo Han, Xiaofei Wei and Yan Gao
<b>ID 202</b>	<b>Pesticide and plastic degradation by soil microorganisms</b> <u>Sofia Monogyiou</u> , Katerina Karkanorachaki, Evdokia Syranidou, Petroula Seridou and Nicolas Kalogerakis
<b>ID 206</b>	<b>The Environmental Risks Associated with Lithium Pollution in the Context of Carbon Neutrality Strategies</b>

Xuezhi Yang, Haiyan Zhang, Jianjie Fu, Qian Liu and Guibin Jiang

## Toxicology and Eco-toxicology of PTS

<b>ID 13</b>	<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
<b>ID 22</b>	<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>
<b>ID 24</b>	<b>An ABCG-type transporter intensifies ametryn catabolism by phase iii reaction mechanism in rice</b> Yuxin Qiao and <u>Hong Yang</u>
<b>ID 35</b>	<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>
<b>ID 50</b>	<b>The metabolic disrupting effects of novel brominated flame retardants on zebrafish</b> <u>Yuxi Zhou</u> , Kaiyu Fu, Lihua Yang and Bingsheng Zhou
<b>ID 90</b>	<b>Exploring the neurotoxic mechanism of PM<sub>2.5</sub> from the olfactory system perspective</b> <u>Daqiang Yin</u> , Yiqing Cao, Weihai Pang and Xueping Guo
<b>ID 95</b>	<b>Environmentally relevant concentrations of 2,3,7,8-TCDD induced inhibition of multicellular alternative splicing and transcriptional dysregulation</b> <u>Xinyan Li</u>
<b>ID 105</b>	<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
<b>ID 109</b>	<b>Heterogeneous accumulation of Hg and Pb mixture in aquatic unicellular organism using mass cytometry</b> <u>Guangbo Qu</u> and Qi Wu
<b>ID 121</b>	<b>Bio-effects of Arsenic-contaminated Soil in the tailing area, China</b> <u>Ying Zhang</u> , Yueran Wang, Xiaoping Zhu and Xianghao Hou
<b>ID 131</b>	<b>Biochemical and Molecular Responses of Maize (<i>Zea mays</i> L.) to TBEC Diastereomers</b> <u>Honglin Huang</u> , Dong Cao, Fanglan Geng, Ziyu Rao and Yuehui Kang
<b>ID 195</b>	<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
<b>ID 65</b>	<b>Effects of Difenoconazole 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>
<b>ID 63</b>	<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
<b>ID 73</b>	<b>Effects of Multiple Novel Bisphenol S Analogs on Adipogenesis in 3T3-L1 Cells</b> <u>Zhendong Sun</u> , Qunfang Zhou and Guibin Jiang
<b>ID 167</b>	<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
<b>ID 171</b>	<b>Disruptions of Lipid Metabolism and SET-53BP1 Regulatory Axis in Hexavalent Chromium-Induced Lung Cancer</b> <u>Shuai Jiang</u> , Mingyang Zuo, Haofeng Lin, Xuerao Lan and Xiaohu Ren



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

## POSTER PRESENTATIONS

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

### Analytical and Bioanalytical Methods

<b>ID 168</b>	<b>Enrichment analysis of non-steroidal anti-inflammatory drugs in water and milk using cationic metal-organic framework membrane</b> <u>Hai-Long Jiang</u> , <u>Ru-Song Zhao</u> and <u>Xia Wang</u>
<b>ID 198</b>	<b>Quantification of pesticides without standard substances in biomonitoring through suspect screening analysis</b> <u>Chi Zhang</u> , <u>Dawei Chen</u> and <u>Yan Bao</u>
<b>ID 70</b>	<b>Characterization of metal nanoparticles in biological samples by ICP-MS technique</b> <u>Lihong Liu</u> , <u>Qinfei Zhou</u> , <u>Bin He</u> , <u>Ligang Hu</u> and <u>Guibin Jiang</u>
<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> , <u>Li Xu</u> , <u>Songyan Zhang</u> and <u>Bin Zhao</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> , <u>Jintao Zhan</u> , <u>Peirong Bai</u> , <u>Na An</u> , <u>Junjie Tan</u> , <u>Yanzhen Wang</u> , <u>Quanfei Zhu</u> and <u>Yuqi Feng</u>
<b>ID 175</b>	<b>Development and application of high-throughput toxicity screening assays for emerging contaminants</b> <u>Xiaoxi Yang</u> , <u>Qunfang Zhou</u> , <u>Guangbo Qu</u> and <u>Guibin Jiang</u>
<b>ID 19</b>	<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>
<b>ID 26</b>	<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> , <u>Shuang Zhao</u> , <u>Baowei Chen</u> and <u>Tiangang Luan</u>
<b>ID 31</b>	<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> , <u>Ru-Song Zhao</u> and <u>Xia Wang</u>
<b>ID 74</b>	<b>Expanding the Concerned List of Priority Polycyclic Aromatic Compounds Utilizing High-Resolution Mass Spectrometry Assisted by In Silico Predictions</b> <u>Tingyu Li</u> , <u>Ting Ruan</u> and <u>Guibin Jiang</u>
<b>ID 98</b>	<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> , <u>Yunyun Yang</u> and <u>Tiangang Luan</u>
<b>ID 100</b>	<b>Platinum Nanoparticle Assemblies for ultra-sensitive Detection of Mercury ion</b> <u>Fan Zhang</u> , <u>Tianyu Guo</u> and <u>Tigang Luan</u>
<b>ID 110</b>	<b>Developing a robust method integrating with selective membrane-based preconcentration and signal amplification for field virus detection</b> <u>Tiangang Luan</u> and <u>Ruohong Chen</u>

<b>ID 149</b>	<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
<b>ID 169</b>	<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>
<b>Risk assessment of PTS, and modeling their fate and toxicity</b>	
<b>ID 107</b>	<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
<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>Mitigation and Remediation of PTS, Emerging, and Other Contaminants</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 39</b>	<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>
<b>ID 01</b>	<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
<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>ID 43</b>	<b>New barrier role of iron plaque: producing interfacial hydroxyl radicals to degrade rhizosphere pollutants</b> <u>Guo-Ping Sheng</u> and Xin Zhang
<b>ID 76</b>	<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
<b>ID 79</b>	<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>
<b>ID 112</b>	<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
<b>ID 122</b>	<b>Insights into the Sunlight-Induced Photodegradation Mechanisms of Methamphetamine in Surface Water driven by NO<sub>3</sub><sup>-</sup>, HCO<sub>3</sub><sup>-</sup> and Fe<sup>3+</sup></b> <u>Lijuan Luo</u>
<b>ID 130</b>	<b>Bioremediation of heavy metals by deep seafloor Penicillium funiculosum 14R-2-F01</b> Changhong Liu, <u>Yarong Xue</u> , Fayun Feng, Shuang Leng and Dongxu Li
<b>ID 140</b>	<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

<b>ID 146</b>	<b>Organic and mineral materials as factors reducing the effect of diesel oil on trace element content in soil</b> <u>Mirosław Wyszowski</u> and Natalia Kordala
<b>ID 179</b>	<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>
<b>Effects of PTS on Human Health</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 67</b>	<b>Proteomic Insights from Extracellular Vesicles into the Molecular Mechanisms of Health Effects Induced by Per- and Polyfluoroalkyl Substances</b> Yanping Li, <u>Nali Zhu</u> , Yawei Wang and Guibin Jiang
<b>ID 127</b>	<b>Analysis of environmental contaminants exposure and potential pathogenicity of primary membranous nephropathy</b> <u>Jingping Yang</u>
<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 166</b>	<b>Epigenetic alterations induced by occupational exposure in the chromium industry</b> <u>Jelle Verdonck</u> , Katrien Poels, Manosij Ghosh, Lode Godderis, Beata Janasik, Wojciech Wasowicz, Paul Scheepers, Sophie Ndaw, Radia Bousoumah, An van Nieuwenhuysse, Radu Corneliu Duca, Susana Viegas, Henriqueta Louro, Maria João Silva, Simo Porras and Tiina Santonen
<b>ID 174</b>	<b>Daily personal exposure and dose to particulate matter of Chania residents</b> Eleni Mammi Galani and Mihalis Lazaridis
<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>Nature-based Solutions for Tackling PTS Contamination</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 Błazalek, 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>