



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



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UNIVERSITÀ DI BOLOGNA

DEPARTMENT
OF CIVIL, CHEMICAL,
ENVIRONMENTAL, AND
MATERIALS ENGINEERING



环境化学与环境毒理
全国重点实验室
State Key Laboratory of Environmental
Chemistry and Toxicology



20th International Symposium on Toxic Substances and Health ISPTS 2026

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3rd International Conference on Eco-Environment & Health ICEEH 2026

Bologna, 9-13 September 2026

Scientific Programme

General information

Congress Venue

Belmeloro University Complex

Via Beniamino Andreatta, 8
40125 Bologna, Italy

<https://maps.app.goo.gl/LAUuV31sKNCvAb8KA>

Ground Floor

Secretariat Desk | Room A | Room G

1st Floor

Room C | Room D | Poster Exhibition

Registration Desk Opening Hours

Wednesday, 9th September: 14:30–18:30

Thursday, 10th September: 08:30–18:30

Friday, 11th September: 08:30–18:30

Saturday, 12th September: 08:30–14:30

Registration Process and Congress Name Badge

All congress participants will receive their electronic badge by email before the congress.

Please have your electronic badge ready on your mobile phone when you arrive at the venue.

At the registration desk you will:

1. scan the bar code on your electronic badge to register your attendance
2. print your congress name badge
3. collect your congress kit.

We kindly ask you to wear your name badge throughout the conference, including during the social events, to facilitate identification and help us welcome you at the various events.

Certificate of Attendance

The certificate of attendance will be available for download online via a dedicated QR code that will be provided at the congress venue.

Bologna Walking Tour | Saturday, 12th September

14:30 Departure from the congress venue

Please note: The conference venue will close on Saturday afternoon at the end of the conference. Therefore, it will not be possible to leave luggage or personal belongings at the venue for participants joining the Bologna Walking Tour.

We recommend leaving your luggage at your hotel.

Ravenna City Tour | Sunday, 13 September

08:45 Meeting point

Departure and return at the Department of Mathematics - University of Bologna, Piazza di Porta San Donato, 5.

<https://maps.app.goo.gl/bRSSCLqhPVNzpWKB9>

Please make sure to arrive on time.

For any assistance during the congress, please contact us at:

Email: ispts2026@ispts2026.com - Mobile / WhatsApp: +39 348 311 2295

Programme at a glance

9th September 2026

14:30	Registration open
16:30–17:15 Room A – Ground Floor	Plenary lecture Prof. Frank Kelly – Imperial College, London, UK Existing and emerging air pollution challenges to human health
17:15–19:00	Welcome cocktail

10th September 2026

9:00-9:30 Room A – Ground Floor	Opening Ceremony Welcome by the Co-chairs and Prof. Stefano Fanti (Deputy Rector for Research, University of Bologna)			
9:30-10:15 Room A – Ground Floor	Plenary lecture Prof. Pedro Alvarez – Rice University, Houston, TX, US Merits and Limitations of Various Advanced Oxidation Processes for PFAS Degradation			
10:15-11:00 Room A – Ground Floor	Plenary lecture Prof. Werner Brack – Helmholtz Centre for Environmental Research, Leipzig Germany Toxic Chemical Mixtures in Global Water Resources. Initiative for a Global Chemical Monitoring and Assessment.			
11:00-11:30	Coffee Break & Poster Viewing			
	Room A Ground Floor	Room C 1 st Floor	Room D 1 st Floor	Room G Ground Floor
11:30-13:00	SFM-1 Sources, transport, fate and (bio)analytical methods for PTS Keynote: ID 34 – Hongwen Sun Regular orals: ID 138, ID 43, ID 36, ID 8	MP-1 Microplastics and nanoplastics Keynote: ID 46 – Gan Zhang Regular orals: ID 87, ID 185, ID 198, ID 15	RISK-1 Risk assessment of PTS, modeling their fate and toxicity Keynote: ID 122 – Haiyan Zhang Regular orals: ID 120, ID 175, ID 176, ID 11	ICEEH Session 1
13:00-14:15	Lunch break & Agilent lunch seminars (Room A, starting 13:30)			
14:15-14:45 Room A – Ground Floor	Plenary lecture (sponsored by Agilent) Dr. Lorenzo Zingaro – Agilent Technologies, Milano, Italy New approaches for the analysis of emerging contaminants			
	Room A Ground Floor	Room C 1 st Floor	Room D 1 st Floor	Room G Ground Floor
14:45–16:30	MIT-1 Mitigation, remediation and NBS for PTS Keynote: ID 97 – Jiandong Jiang Regular orals: ID 7, ID 12, ID 50, ID 204, ID 101	HUM-1 Effects of PTS on human health Keynote: ID 123 – Lijun Wu Regular orals: ID 4, ID 83, ID 189, ID 222	TOX-1 Toxicology and ecotoxicology of PTS Keynote: ID 70 – Yang Song Regular orals: ID 60, ID 32, ID 80	ICEEH Session 2
16:30–17:00	Coffee Break & Poster Viewing			
17:00–18:30	MIT-2 Mitigation, remediation and NBS for PTS Regular orals: ID 214, ID 215, ID 139, ID 213, ID 55	MP-2 Microplastics and nanoplastics Regular orals: ID 84, ID 9, ID 51, ID 115, ID 119, ID 130	TOX-2 Toxicology and ecotoxicology of PTS Keynote: ID 228 – Davide Degli Esposti Regular orals: ID 145, ID 23, ID 162	ICEEH Session 3 & Editorial Board Meeting of Eco-Environment & Health

11th September 2026

9:00-9:45 Room A - Ground Floor	Plenary lecture Prof. Nicolas Kalogerakis – Technical University of Crete, Chania, Crete, Greece Challenges in combatting microplastic pollution in the marine environment			
9:45-10:30 Room A – Ground Floor	Plenary lecture Prof. Chris Le – University of Alberta, Edmonton, Alberta, Canada Innovative techniques and molecular assays for microbial pathogens of health concern			
10:30-11:00	Coffee Break & Poster Viewing			
	Room A Ground Floor	Room C 1 st Floor	Room D 1 st Floor	Room G Ground Floor
11:00–13:00	TOX-3 Toxicology and ecotoxicology of PTS Keynote: ID 223 – Robin Kyclyt Regular orals: ID 3, ID 5, ID 6, ID 22	ECC-1 Emerging contaminants of concern Keynote: ID 134 – Xing-Fang Li Regular orals: ID 35, ID 72, ID 118, ID 137, ID 151, ID 126	ET-1 Emerging technologies for monitoring, mitigating and removing PTS Keynotes: ID 76 – Jingwen Chen Regular orals: ID 183, ID 26, ID 27	ICEEH Session 4
13:00–14:00	Lunch break			
14:00–14:45 Room A - Ground Floor	Plenary lecture Prof. Jianmin Chen – Fudan University, Shanghai, China Evolution of Nitroaromatics and Tire Antioxidants in Aerosol and Clouds			
	Room A Ground Floor	Room C 1 st Floor	Room D 1 st Floor	
14:45–16:30	SFM-2 Sources, transport, fate and (bio)analytical methods for PTS Keynote: ID 73 – Yong Cai Regular orals: ID 77, ID 117, ID 168, ID 225	HUM-2 Effects of PTS on human health Keynote: ID 132 – Francesco Faiola ID 154 – Chunyang Liao Regular orals: ID 174, ID 179, ID 112	MIT-3 Mitigation, remediation and NBS for PTS Keynote: ID 227 – Abraham Esteve Núñez Regular orals: ID 221, ID 102, ID 135, ID 143, ID 202	
16:30–17:00	Coffee Break & Poster Viewing			
17:00–18:30	SFM-3 Sources, transport, fate and (bio)analytical methods for PTS Keynote: ID 39 – Jing You Regular orals: ID 98, ID 121, ID 67	MP-3 Microplastics and nanoplastics Keynote: ID 172 – Yan He Regular orals: ID 10, ID 88, ID 203, ID 206	RISK-2 Risk assessment of PTS, modeling their fate and toxicity Keynote: ID 226 – Antonio Marcomini Regular orals: ID 64, ID 105, ID 144	
20:00-24:00	Gala Dinner Palazzo Gnudi Via Riva di Reno, 77 (https://maps.app.goo.gl/phWeNRsZrHtoGHwd8)			

12th September 2026

	Room A Ground Floor	Room C 1 st Floor	Room D 1 st Floor
09:00–11:00	SFM-4 Sources, transport, fate and (bio)analytical methods for PTS Keynote: ID 196 – Hanyong Peng Regular orals: ID 164, ID 182, ID 54, ID 45, ID 208, ID 218	ECC-2 Emerging contaminants of concern Keynote: ID 140 – Lingyan Zhu Regular orals: ID 20, ID 169, ID 149, ID 173	ET-2 Emerging technologies for monitoring, mitigating and removing PTS Keynote: ID 170 – Daniel Schlenk Regular orals: ID 47, ID 49, ID 171, ID 13, ID 195
11:00–11:30	Coffee Break & Poster Viewing		
11:30–12:15 Room A – Ground Floor	Plenary lecture Dr. Serenella Sala – European Commission, Joint Research Centre, Ispra, Italy Designing the Future: Implementing the safe and sustainable by design chemicals framework for a Toxic-Free Economy		
12:15–13:30 Room A – Ground Floor	Closing ceremony and Awards		
13:30–14:30	Lunch break		
14:30–18:30	Conference Excursion (Bologna Walking Tour) 14:30: Meet at the Congress Venue		

13th September 2026

9:00–18:00	Conference Excursion (Ravenna Guided Tour) 8:45: Meet at the Mathematics School of the University of Bologna Piazza di Porta San Donato, 5 https://maps.app.goo.gl/bRSSCLqhPVNzpWKB9
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Detailed programme

9th September 2026

14:30–18:30	Registration desk open
16:30–17:15	Plenary lecture Room A Chairpersons: Giulio Zanaroli, Rong Ji Existing and emerging air pollution challenges to human health Prof. Frank Kelly School of Public Health – Faculty of Medicine, Imperial College ~ London ~ UK
17:15–19:00	Welcome cocktail

10th September 2026

9:00–9:30	Opening Ceremony Room A Welcome by the co-chairs – Giulio Zanaroli, Guibin Jiang Greetings by Prof. Stefano Fanti – Deputy Rector for Research, University of Bologna
9:30–10:15	Plenary lecture Room A Chairpersons: Guibin Jiang, Giulio Zanaroli Merits and Limitations of Various Advanced Oxidation Processes for PFAS Degradation Prof. Pedro Alvarez Department of Civil and Environmental Engineering, Rice University ~ Houston, TX ~ US
10:15–11:00	Plenary lecture Room A Chairpersons: Nicolas Kalogerakis, Rong Ji Toxic Chemical Mixtures in Global Water Resources. Initiative for a Global Chemical Monitoring and Assessment Prof. Werner Brack Department Exposure Science and Department Environmental Analytical Chemistry, Helmholtz Centre for Environmental Research ~ Leipzig ~ Germany

11:00–11:30	Coffee Break & Poster Viewing
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11:30–13:00	SFM-1 Sources, transport, fate and (bio)analytical methods for PTS – 1 Room A Chairpersons: Hongwen Sun, Jiyan Liu	
11:30–11:55	ID 34 (Keynote)	Environmental behavior of plastic-derived emerging contaminants in agricultural systems Hongwen Sun* Nankai University ~ Tianjin ~ China
11:55–12:10	ID 138	Long-term stability and release risks of non-extractable residues of emerging contaminants in soil Feifei Sun*^[1], Songfeng Wang^[2], Rong Ji^[3] ^[1] School of Environmental Science and Engineering, Hainan University ~ Haikou ~ China, ^[2] Institute of Botany, Jiangsu Province and Chinese Academy of Sciences ~ Nanjing ~ China, ^[3] School of the Environment, Nanjing University ~ Nanjing ~ China
12:10–12:25	ID 43	Covalently active metabolites of bisphenol A via three-dimensional liquid chromatography-mass spectrometry: new insight into its adverse effects Na Li, Jian-Lin Wu* Macau University of Science and Technology ~ Macao ~ China
12:25–12:40	ID 36	The occurrence of PAHs and halogenated PAHs (x-PAHs) in the soil of typical industrial area in central China Dazhou Ren, Jiyan Liu*, Guibin Jiang State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China; School of Environment, Hangzhou Institute for Advanced Study, UCAS, Hangzhou ~ China
12:40–12:55	ID 8	Identification and characterization of degradation products from halogenated organic pollutants Qianqian Li*, Mingge Wu, Guijin Su Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
11:30–13:00	MP-1 Microplastics and nanoplastics – 1 Room C Chairpersons: Gan Zhang, Hailin Wang	
11:30–11:55	ID 46 (Keynote)	Airborne plastics contribute to the atmospheric fate of chlorinated paraffins Gan Zhang*, Jianchu Ma, Shizhen Zhao Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China
11:55–12:10	ID 87	Nanoparticles adsorption and its interactions with liquid-liquid phase separation Hailin Wang*, Xiaoting Ling Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China

12:10–12:25	ID 185	Solubility parameter-indicated precipitation and cryogenic milling for preparation of polystyrene microplastic reference materials Shanjun Song* National institute of metrology, China ~ Beijing ~ China
12:25–12:40	ID 198	Machine-learning-driven single-particle sensing for multidimensional characterization of micro- and nanoplastics Hong-Shuang Li* ^[1] , Jiaqi Zuo ^[2] , Siyu Tian ^[1] , Dan Luo ^[1] , Chao Zhang ^[1] , Siqi Wang ^[1] , Kaipei Qiu ^[1] ^[1] East China University of Science and Technology ~ Shanghai ~ China, ^[2] East China Normal University ~ Shanghai ~ China
12:40–12:55	ID 15	Analytical characterization of interactions between micro- and nanoplastics and biomacromolecules and their molecular mechanisms Xiu Huang ^{*(1)} , Qian Liu ^[2] , Guibin Jiang ^[2] ^[1] Sichuan University ~ Chengdu ~ China, ^[2] Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
11:30–13:00	RISK-1 Risk assessment of PTS, modeling their fate and toxicity – 1 Room D Chairpersons: Haiyan Zhang, Elena Semenzin	
11:30–11:55	ID 122 (Keynote)	Differential bioaccumulation and metabolic fate of organophosphate esters across multi-route exposure Haiyan Zhang* School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China
11:55–12:10	ID 120	Anaerobic soils as hidden hotspots of chlorinated pollutant risk: linking national residues, soil dechlorinators, and methanogenic interactions Shuyao Li* , Yan He Zhejiang University ~ Hangzhou ~ China
12:10–12:25	ID 175	AI-driven species sensitivity distribution (AI-4-SSD) framework for predicting aquatic ecological risks of chemical pollutants in global near-coastal environments Yongle Zhu* , Peiling Han , Xuehua Li Dalian University of Technology ~ Dalian ~ China
12:25–12:40	ID 176	High-throughput analysis and health risk prediction of emerging contaminants Xuehua Li* , Yongle Zhu , Peiling Han Dalian University of Technology ~ Dalian ~ China
12:40–12:55	ID 11	From metadata to decisions: advancing human risk assessment with IATAS and NAMS Stefania Sabella* College of Environment, Hangzhou Institute of Advanced Studies, University of Chinese Academy of Science (UCAS) ~ Hangzhou, Zhejiang ~ China
11:30–13:00	ICEEH session 1 Room G Chairpersons: Dandan Yu (Nanjing Institute of Environmental Sciences, MEE), Guotao Peng (Tongji University)	
11:30–11:45	ICEEH 1	Mercury transformations in organisms: the occurrence, mechanisms and significance Huan Zhong* School of Environment, Nanjing University ~ Nanjing ~ China
11:45–12:00	ICEEH 2	Integrated modelling and monitoring of active pharmaceutical ingredient sources, pathways, and environmental fate in the northern Adriatic sea Loris Calgaro* , Elisa Giubilato , Alessandro Bonetto , Pier Paolo Guolo , Laura Pagnin , Mattia Negrisolo , Elena Semenzin , Antonio Marcomini Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice ~ Mestre-Venezia ~ Italy
12:00–12:15	ICEEH 3	Identification of potential core targets for PFOA and its alternative GenX in the comorbidity of IBD and MASLD Guotao Peng ^{*(1)[2]} College of Environmental Science and Engineering, Tongji University ~ Shanghai ~ China, ^[2] Key Laboratory of Yangtze River Water Environment, Tongji University ~ Shanghai ~ China
12:15–12:30	ICEEH 4	Metabolic transformation pathways of neonicotinoid insecticides in rice and mechanisms underlying the induced metabolic perturbations Na Liu ^{*(1)[2]} , Jianjian Wu ^{[1][2]} , Jiawen Huang ^{[1][2]} ^[1] Department of Environment, College of Environment and Resources, Xiangtan University ~ Xiangtan ~ China, ^[2] Key Laboratory of Environmental and Ecological Health, Hunan, College of Environment and Resources, Xiangtan University ~ Xiangtan ~ China
12:30–12:45	ICEEH 5	A risk-nexus approach to systemic resilience: integrating biodiversity-climate interactions into multi-hazard governance Dandan Yu* Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment

12:45–13:00	ICEEH 6	Diet-driven accumulation of per- and polyfluoroalkyl substances in a sentinel seabird Jiachen Sun ^[1] , Jinye Cheng ^[1] , Jiansong Chu ^[1] , Yanhui Dai ^[2] , Zhenyu Wang ^[3] ^[1] College of Marine Life Sciences, Ocean University of China ~ Qingdao ~ China, ^[2] Institute of Coastal Environmental Pollution Control, Key Laboratory of Marine Environment and Ecology (Ministry of Education), Ocean University of China ~ Qingdao ~ China, ^[3] Institute of Environmental Processes and Pollution Control, and School of Environment and Ecology, Jiangnan University ~ Wuxi ~ China
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13:00–14:15	Lunch & Agilent seminars (starting 13:30) Room A	
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14:15 – 14:45	Plenary lecture (Sponsored by Agilent) Room A Chairpersons: Minghui Zheng, Rong Ji New approaches for the analysis of emerging contaminants Dr. Lorenzo Zingaro Agilent Technologies ~ Milano ~ Italy	
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14:45–16:30	MIT-1 Mitigation, remediation and NBS for PTS – 1 Room A Chairpersons: Jiandong Jiang, Zhongbing Chen	
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14:45–15:10	ID 97 (Keynote)	Complete reductive dechlorination of 4-hydroxy-chlorothalonil by a novel <i>Dehalogenimonas</i> strain and identification of the key reductive dehalogenase Guiping Liu, Wenjing Qiao, Jiandong Jiang* Department of Microbiology, College of Life Sciences, Nanjing Agricultural University, Key Laboratory of Agricultural and Environmental Microbiology, Ministry of Agriculture and Rural Affairs ~ Nanjing ~ China
15:10–15:25	ID 7	Facet-controlled TiO₂ loaded noble metals degrade emerging organochlorine exhaust pollutants Bohua Sun, Qianqian Li, Guijin Su* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
15:25–15:40	ID 12	Arbuscular mycorrhizal fungi enhance phytoremediation of hexabromocyclododecane via plant-microbe synergism Zhongbing Chen ^[1] , Bo Hu ^[2] ^[1] Czech University of Life Sciences Prague ~ Prague ~ Czech Republic, ^[2] Zhejiang Normal University ~ Jinhua ~ China
15:40–15:55	ID 50	Formation mechanism of brominated dioxins during thermal disposal of hexabromocyclododecane-containing wastes Bingcheng Lin* Hangzhou Institute for Advanced Study, UCAS ~ Hangzhou ~ China
15:55–16:10	ID 204	Autochthonous bioaugmentation for the biodegradation of mixed hydrocarbons in industrially contaminated soil: from lab to field testing and assessment Eliana Musmeci ^[1] , Elena Biagi ^[1] , Marco Rigato ^[1] , Maria Alejandra Decima ^[2] , Magdalena Dibdiaková ^[3] , Caterina Bosticco ^[1] , Davide Pinelli ^[1] , Fabio Fava ^[1] , Robin Kyclet ^[3] , Mauro Barompriori ^[2] , Giulio Zanaroli ^[1] ^[1] Dept. of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, Italy ~ Bologna ~ Italy, ^[2] EniRewind, Italy ~ Ferrara ~ Italy, ^[3] ABITEC, s.r.o., Prague, Czech Republic ~ Prague ~ Czech Republic
16:10–16:25	ID 101	Life INBIOSOIL: in-situ advanced biological treatment of the unsaturated soil zone Asia Rosatelli ^[1] , Carmen Lázaro Sánchez ^[1] , Laura Del Val Alonso ^[1] , Carme Bosch Suades ^[1] , Gabriel Grases Feo ^[2] , Lionel Counet ^[3] , Sha Gao ^[4] , Mathias Ketele ^[4] , Jaume Abad-Vilà ^[4] , Caroline Zaoui ^[4] , Sònia Jou Claus ^[1] ^[1] Water, Air and Soil Unit, Eurecat, Centre Tecnològic de Catalunya ~ Manresa ~ Spain, ^[2] Tecnoambiente ~ Cerdanyola ~ Spain, ^[3] Injectis ~ Deinze ~ Belgium, ^[4] Novobiom ~ Ottignies-Louvain-la-Neuve ~ Belgium

14:45–16:30	HUM-1 Effects of PTS on human health – 1 Room C Chairpersons: Lijun Wu, Wei Jiang	
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14:45–15:10	ID 123 (Keynote)	Impaired intestinal stem cell fate commitment originating from endoderm disruption by antibacterial agents Xiaowen Cheng ^[1] , Shengmin Xu ^[2] , Lijun Wu ^[2] ^[1] Institute of Environmental Hefei Comprehensive National Science Center ~ Hefei ~ China, ^[2] Institutes of Physical Science and Information Technology, Anhui University ~ Hefei ~ China
15:10–15:25	ID 4	Serpina1 deficiency sensitizes alveolar type II cells to particulate matter-induced chronic obstructive pulmonary disease exacerbation Junhan Yang* , Nuoya Yin , Francesco Faiola , Renjun Yang , Hanyue Li Research Center for Eco-Environmental Sciences Chinese Academy of Sciences ~ Beijing ~ China
15:25–15:40	ID 83	Ultrashort-chain PFAS in human milk and lactational hepatotoxicity of the dominant congener TFMS in neonatal mice Xinchen Miao* , Yitao Pan , Nan Sheng , Jiayin Dai School of Environmental Science and Engineering, Shanghai Jiao Tong University ~ Shanghai ~ China

15:40–15:55	ID 189	HFPO-TA and PFOA induce lipid accumulation in HepG2 cells by directly targeting APOE Wei Jiang* , Qi Liu Shandong University ~ Qingdao ~ China
15:55–16:10	ID 222	Human biomonitoring for environmental risk assessment in high anthropogenic pressure areas: an exposome-based approach Flavia Conte ^[1] , Alessandra Marano ^[2] , Antonella Giarra ^[2] , Carolina Fontanarosa ^[2] , Gennaro Battaglia ^[2] , Michele Spinelli ^[2] , Angela Amoresano ^[2] , Marco Trifuoggi ^[2] , Luigi Montano ^[3] ^[1] Scuola Superiore Meridionale ~ Napoli ~ Italy, ^[2] Department of Chemical Sciences - University of Naples Federico II ~ Napoli ~ Italy, ^[3] Andrology Unit and Service of Lifestyle Medicine in UroAndrology, Local Health Authority (ASL) Salerno ~ Salerno ~ Italy
14:45–16:30	TOX-1 Toxicology and ecotoxicology of PTS – 1 Room D Chairpersons: Yang Song, Jian Han	
14:45–15:10	ID 70 (Keynote)	The adverse effects and molecular pathways triggered by particulate matter exposure Yang Song* Beijing ~ China
15:10–15:25	ID 60	Particulate matters reshape cutaneous microbiome and metabolome and elevate barrier dysfunction Shuping Zhang* , Bo Jiao Shandong First Medical University & Shandong Academy of Medical Sciences ~ Jinan ~ China
15:25–15:40	ID 32	Toxicity assessment of organophosphate esters based on two human lung models Shuxian Zhang* , Renjun Yang , Nuoya Yin , Francesco Faiola Research Center for Eco-Environmental Sciences ~ Beijing ~ China
15:40–15:55	ID 80	Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate induces IBD-like pathology via the gut microbiota-arachidonic acid axis with protective role of <i>Akkermansia muciniphila</i> Yuxi Zhou , Jian Han* , Bingsheng Zhou Institute of Hydrobiology, Chinese Academy of Sciences ~ Wuhan ~ China
14:45–16:30	ICEEH session 2 Room G Chairpersons: Kaipei Qiu (East China University of Science and Technology), Feiran Chen (Nanjing Forestry University)	
14:45–15:00	ICEEH 7	From wastewater treatment plants to receiving waters: transmission mechanisms and risks of antibiotic resistance genes carried by microplastics Na Wang* Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment
15:00–15:15	ICEEH 8	Small materials, big impact: nanomaterials for stress-resilient and sustainable forestry Feiran Chen* , Shengzuo Fang State Key Laboratory for Development and Utilization of Forest Food Resources, Nanjing Forestry University ~ Nanjing ~ China, Co-Innovation Center for the Sustainable Forestry in Southern China, Nanjing Forestry University ~ Nanjing ~ China
15:15–15:30	ICEEH 9	Principles of nano-bioremediation technology for emerging pollution Jie Hou* Zhejiang University
15:30–15:45	ICEEH 10	Artificial intelligence driven single-entity environmental analytical chemistry for new contaminants Kaipei Qiu* East China University of Science and Technology
15:45–16:00	ICEEH 11	Carbon dynamics and ecological restoration in subtropical shallow lakes: implications for China's carbon neutrality and the beautiful rivers and lakes initiative Lei Hong* Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment
16:00–16:10	ICEEH 12	A data- and knowledge-driven intelligent decision-making system for multiple objectives of wastewater quality risk control Mengyuan Zhu* , Bing Wua State Key Laboratory of Pollution Control and Resource Reuse, School of Environment, Nanjing University ~ Nanjing ~ China
16:10–16:20	ICEEH 13	Climate-mediated land use effects on soil organic carbon storage in karst ecosystems Haiyang Guan ^[1] , Yunchao Zhou ^[2] , Zhenming Zhang ^[1] , Yunxing Bai ^[2] , Zaike Gu ^[3] , Li Qin ^[3] ^[1] College of Resources and Environmental Engineering, Guizhou University ~ Guiyang ~ China, ^[2] Institute for Forest Resources & Environment of Guizhou, Guizhou Key Laboratory of Forest Cultivation in Plateau Mountain, College of Forestry, Guizhou University ~ Guiyang ~ China, ^[3] Guizhou Provincial Monitoring Station of Soil and Water Conservation ~ Guiyang ~ China
16:20–16:30	ICEEH 14	Deciphering the dominant in vivo pathway of a multi-target contraceptive: mifepristone skews zebrafish population sex ratio via progesterone receptor Xuan Liu* , Hongxia Yu , Hongling Liu State Key Laboratory of Water Pollution Control and Green Resource Recycling, School of the Environment, Nanjing University ~ Nanjing ~ China

16:30-17:00	Coffee Break & Poster Viewing	
17:00-18:30	MIT-2 Mitigation, remediation and NBS for PTS – 2 Room A Chairpersons: Zhiqiang Zhu, Elena Biagi	
17:00-17:15	ID 214	Hydrolysis-mineralization relay: a synergistic mechanism for a two-strain composite agent to efficiently degrade PAES and alleviate phytotoxicity Haoyu Li* , Yi Jiang , Qiaoyun Huang , Wenli Chen Huazhong Agricultural University ~ Wuhan ~ China
17:15-17:30	ID 215	Cadmium bioremediation and oxidative stress mitigation of acid-tolerant microbial strain in rice based on pan-genomic analysis Lipeng Zhao* , Yi Jiang , Wenli Chen , Qiaoyun Huang Huazhong Agricultural University ~ Wuhan ~ China
17:30-17:45	ID 139	Metagenomic analysis of bacterium-mediated microbiome reconstruction and HGT-associated metabolic regulation for heavy metal phytoremediation Xiaoyan Sun , Dong Li , Zhiqiang Zhu* Hainan University ~ Haikou ~ China
17:45-18:00	ID 213	Microbially induced carbonate precipitation balances bacterial survival and function: heavy metal remediation and plant growth promotion by <i>Enterobacter ludwigii</i> N15 Chang Qu* , Qiaoyun Huang , Wenli Chen Huazhong Agricultural University ~ Wuhan ~ China
18:00-18:15	ID 55	Photochemical transformation mechanisms of PFAS mediated by Fe(III) and Fe(III)-citrate complex in wastewater Ying Huang* , Boyuan Fan , Jianjie Fu , Guibin Jiang Hangzhou Institute for Advanced Study, UCAS ~ Hangzhou ~ China
17:00-18:30	MP-2 Microplastics and nanoplastics – 2 Room C Chairpersons: Min Zhan, Aijun Miao	
17:00-17:15	ID 84	Aggregation and bioavailability of PE and PLA nanoplastic ingested via paper cup Hee-Jin Park* , Dana Fahad Ms Mohamed , Jungmin Jo , Jung-Hwan Kwon Korea University ~ Seoul ~ Republic of Korea
17:15-17:30	ID 9	Microplastic pollution and control in drinking water treatment plants: from particle removal to platisphere risk management Min Zhan* Korea University ~ Seoul ~ Republic of Korea
17:30-17:45	ID 51	Investigating potential pathogenic factors underlying the adverse effects of microplastics on endothelial cells Yuzhu Zhang* , Shanjuan Song National Institute of Metrology, China ~ Beijing ~ China
17:45-18:00	ID 115	Emerging threat from green plastics: toxicological assessment of PHB microplastics in human vascular endothelial cells Dong Ni Wu* ^[1] , Hsiu-Feng Hung ^[2] , Bo-Ruei Huang ^[3] , Yen-Ping Peng ^[1] , Si-Yu Li ^[4] , Chia-Hua Lin ^[3] ^[1] National Sun Yat-sen University ~ Kaohsiung City ~ Taiwan ~ China, ^[2] National Chi Nan University, ~ Puli Township, Nantou County ~ Taiwan ~ China, ^[3] National Formosa University, ~ Huwei Township, Yunlin County ~ Taiwan ~ China, ^[4] National Chung Hsing University ~ Taichung City ~ Taiwan ~ China
18:00-18:15	ID 119	Changing climate and environmental pollution may be linked to infertility in Africa: a discrete choice reports on microplastics and pathogenic microbes detected in human semen Kenneth Yongabi* Imo State University ~ Owerri ~ Nigeria
18:15-18:30	ID 130	Impaired microbiota-liver axis reduces hepatic susceptibility to polystyrene micro- and nanoplastics in inflammatory bowel disease mice Guotao Peng* Tongji University ~ Shanghai ~ China
17:00-18:30	TOX-2 Toxicology and ecotoxicology of PTS – 2 Room D Chairpersons: Davide Degli Esposti, Bingsheng Zhou	
17:00-17:25	ID 228 (Keynote)	Contribution of experimental studies for understanding the toxicity of chemical substances: a personal one health perspective Davide Degli Esposti* Cesare Maltoni Cancer Research Centre, Ramazzini Institute ~ Bologna ~ Italy
17:25-17:40	ID 145	Environmental pollution toxicity research based on toxicology big data analysis Renjun Yang* , Nuoya Yin , Francesco Faiola Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
17:40-17:55	ID 23	Comparative reproductive and offspring developmental toxicity of RDP and <i>para</i>-OH-TPHP in zebrafish Xiangyi Huang* , Quan Zhang Zhejiang University of Technology ~ Hangzhou ~ China

17:55–18:10	ID 162	The endocrine disrupting effects of parabens Jiefeng Liang ^[2] , Runzeng Liu ^[2] , Qunfang Zhou ^[1] , Guibin Jiang ^[1] ^[1] State Key Laboratory of Environmental Chemistry and Toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China, ^[2] Shandong Key Laboratory of Environmental Processes and Health, School of Environmental Science and Engineering, Shandong University ~ Qingdao ~ China
17:00–18:00	ICEEH session 3 Room G Chairpersons: Haiyan Chu (Nanjing Medical University), Yide He (Nanjing Tech University)	
17:00–17:15	ICEEH 15	TCIPP mediated macrophage CTSK via cell crosstalk induces pulmonary fibrosis Meiyu Zhou ^[1] , Ruiyang Tian ^[1] , Xiaoyu Gao ^[1] , Xiaoting Li ^[2] , Yan Lu ^[3] , Huanhuan Zhu ^[4] , Wenjun Shi ^[1] , Ziwei Dong ^[1] , Yungang Sun ^[5] , Haiyan Chu ^[1] ^[1] Department of Environmental Genomics, School of Public Health, The Affiliated Taizhou People's Hospital of Nanjing Medical University, Taizhou School of Clinical Medicine, Nanjing Medical University ~ Nanjing ~ China, ^[2] Department of Nutrition and Food Safety, School of Public Health, Nanjing Medical University ~ Nanjing ~ China, ^[3] Department of Chronic non-communicable diseases, Suzhou Center for Disease Control and Prevention ~ Suzhou ~ China, ^[4] School of Public Health, Zhejiang International Science and Technology Cooperation Base of Air Pollution and Health, Zhejiang Chinese Medical University ~ Hangzhou ~ China, ^[5] Department of Thoracic Surgery, Nanjing Chest Hospital, Affiliated Nanjing Brain Hospital, Nanjing Medical University ~ Nanjing ~ China
17:15–17:30	ICEEH 16	Chronic reproductive impairment in zebrafish at environmental gabapentin levels far below conventional safety thresholds Yide He ^{[1][2]} , Cheng Wang ^{[1][2]} , Rosa Freitas ^[3] , Yongjun Zhang ^{[1][2]} ^[1] School of Environmental Science and Engineering, Nanjing Tech University ~ Nanjing ~ China, ^[2] Sino-Portuguese Joint International Laboratory of Aquatic Toxicology, Nanjing Tech University ~ Nanjing ~ China, ^[3] Sino-Portuguese Joint International Laboratory of Aquatic Toxicology, University of Aveiro ~ Aveiro ~ Portugal
17:30–17:45	ICEEH 17	Gut microbiota mediates maternal PM2.5 exposure-induced neurodevelopmental disorder in offspring via disturbing the glutamate metabolism: evidence from multiomics analysis Bin Pan ^{[1][2]} , Yuanting Xie ^[1] , Wenpu Shao ^[1] , Xinyi Fang ^[1] , Dongyang Han ^[1] , Jingyu Li ^[1] , Xiaoqing Hong ^[1] , Wenyue Tu ^[1] , Muchen Xu ^[1] , Jiayi Shi ^[2] , Mingjun Yang ^[2] , Fang Tian ^[2] , Minjie Xia ^[2] , Jingying Hu ^[2] , Jianke Ren ^[2] , Katja Kanninen ^[3] , Haidong Kan ^[1] , Weihua Li ^[2] , Yanyi Xu ^[1] ^[1] Department of Environmental Health, School of Public Health, Fudan University ~ Shanghai ~ China, ^[2] NHC Key Lab of Reproduction Regulation, Shanghai Engineering Research Center of Reproductive Health Drugs and Devices, Shanghai Institute for Biomedical and Pharmaceutical Technologies, School of Pharmacy, Fudan University ~ Shanghai ~ China, ^[3] A.I. Virtanen Institute for Molecular Sciences, University of Eastern Finland ~ Finland
17:45–18:00	ICEEH 18	Deep learning driven high-throughput hazard identification reveals cardiac and developmental toxicity of liquid crystal monomers towards zebrafish Chao Li [*] School of Environment, Northeast Normal University ~ Changchun ~ China
18:00–18:30	Editorial Board Meeting of <i>Eco-Environment & Health</i> Room G Chairpersons: Huan Zhong (Nanjing University)	
18:00–18:30	Progress of Eco-Environment & Health Xiezhong Yu [*] Nanjing University Free discussion	

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9:00–9:45	Plenary lecture Room A Chairpersons: Jung-Hwan Kwon, Giulio Zanaroli Challenges in combatting microplastic pollution in the marine environment Prof. Nicolas Kalogerakis School of Chemical and Environmental Engineering, Technical University of Crete ~ Chania, Crete ~ Greece
9:45–10:30	Plenary lecture Room A Chairpersons: Yong Cai, Francesco Faiola Innovative techniques and molecular assays for microbial pathogens of health concern Prof. Chris Le Department of Laboratory Medicine and Pathology, Faculty of Medicine and Dentistry, University of Alberta ~ Edmonton, Alberta ~ Canada

10:30–11:00	Coffee Break & Poster Viewing
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11:00–13:00	TOX-3 Toxicology and ecotoxicology of PTS – 3 Room A Chairpersons: Robin Kyclt, Quan Zhang	
11:00–11:25	ID 223 (Keynote)	Integrated approach to evaluate bioremediation efficiency: accounting for persistent and toxic intermediates Robin Kyclt* ABITEC, s.r.o. ~ Prague ~ Czech Republic
11:25–11:40	ID 3	Reproductive and developmental toxicity of herbicide L-glufosinate: from placental dysfunction to cardiac toxicity in offspring Bixia Peng* , Jing Liu Zhejiang University ~ Hangzhou ~ China
11:40–11:55	ID 5	Seed coating transfers neonicotinoid risk to pollinators more efficiently than conventional sprays: a field study in rice production Yixiang Wang* ^[1] , Zongqi Hu ^[1] , Rui Wang ^[1] , Zeteng Ying ^[1] , Chensheng Lu ^[2] , Yuanyuan Lu ^[1] , Quan Zhang ^[1] ^[1] College of Environment, Zhejiang University of Technology ~ Hangzhou ~ China, ^[2] College of Resources and Environment, Southwest University ~ Chongqing ~ China
11:55–12:10	ID 6	S-dinotefuran exhibits higher toxicity in an earthworm-soil system via enantioselective persistence, bioaccumulation, and metabolic stress Quan Zhang* , Shitao Hu College of Environment, Zhejiang University of Technology, Hangzhou ~ Hangzhou ~ China
12:10–12:25	ID 22	Thiamethoxam exposure impairs neuromuscular function through thyroid hormone-linked mitochondrial dysfunction in <i>Pelophylax nigromaculatus</i> Yuxuan Wang* , Quan Zhang Zhejiang University of Technology ~ Hangzhou ~ China
11:00–13:00	ECC-1 Emerging contaminants of concern – 1 Room C Chairpersons: Xing-Fang Li, Guangbo Qu	
11:00–11:25	ID 134 (Keynote)	Addressing challenges in nontargeted analysis of halogenated contaminants in water Tingting Zhao , Qiming Shen , Kn Minh Chau , Tongtong Xiang , Xing-Fang Li* University of Alberta ~ Edmonton ~ Canada
11:25–11:40	ID 35	Emerging aryl-organophosphate esters in coastal sediments: comprehensive screening and transformation insights from the Beibu gulf, China Li Zhang* Fourth Institute of Oceanography, MNR ~ Beihai ~ China
11:40–11:55	ID 72	Photoinitiators as new pollutants: from environmental identification to human exposure Runzeng Liu* Shandong University ~ Qingdao ~ China
11:55–12:10	ID 118	Metabolic responses of crops to phthalates and their associated health toxicological risks Na Liu* , Jianjian Wu , Xi Fan , Zihao Huang Xiangtan University ~ Xiangtan ~ China
12:10–12:25	ID 137	Toxicological effects of plastic extracts assessed via effect-directed analysis Guangbo Qu* Research Center for Eco- Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China

12:25–12:40	ID 151	Human-consumption of clays in Africa pose potential human health risks to dioxins and dioxin-like persistent organic pollutants Guorui Liu ^[2] , Junhao Tang ^[1] , Roland Weber ^[3] ^[1] Hangzhou Institute for Advanced Study, UCS ~ Hangzhou ~ China, ^[2] College of Geography and Environmental Sciences, Zhejiang Normal University ~ Jinhua ~ China, ^[3] Lindenfirststr. 23; 73527 Schwäbisch Gmünd, Germany ~ Schwäbisch ~ Germany
12:40–12:55	ID 126	Collaborative ai agent enables scientific discovery of emerging organic pollutants and risk signatures in PM2.5 Xinyan Lu [*] , Si Wei Nanjing University ~ Nanjing ~ China
11:00–13:00	ET-1 Emerging technologies for monitoring, mitigating and removing PTS – 1 Room D Chairpersons: Jingwen Chen, Lixia Zhao	
11:00–11:25	ID 76 (Keynote)	AI-empowered intelligent computational toxicology for the prediction and control of chemical risks Jingwen Chen [*] , Haobo Wang Dalian University of Technology ~ Dalian ~ China
11:25–11:50	ID 183	From AI-assisted to AI-native environmental analytical chemistry: rewiring chemical measurements for environmental complexity Kaipei Qiu [*] , Hong-Shuang Li East China University of Science and Technology ~ Shanghai ~ China
11:50–12:05	ID 26	Spontaneous generation of reactive oxygen species induced by collision at the water-solid interface Jin Xu , Lixia Zhao [*] , Yawei Wang Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
12:05–12:20	ID 27	Design of green alternatives to PFAS surfactants based on generative AI and Pareto optimization theory Haobo Wang [*] , Jingwen Chen Dalian University of Technology ~ Dalian ~ China
11:00–13:00	ICEEH session 4 Room G Chairpersons: Aijun Miao (Nanjing University), Shizhen Zhao (Guangzhou Institute of Geochemistry, Chinese Academy of Sciences)	
11:00–11:15	ICEEH 19	Size-dependent translocation of polystyrene nanoplastics across biological barriers in mammals Aijun Miao [*] , Zhang Hongjie , Ji Rong School of Environment, Nanjing University ~ Nanjing ~ China
11:15–11:30	ICEEH 20	Microplastics pollution in mountainous lakes Yixin He [*] Chengdu Institute of Biology, Chinese Academy of Sciences
11:30–11:45	ICEEH 21	Study of tire wear particles and associated chemicals in the urban atmosphere Shizhen Zhao [*] , Lele Tian , Gan Zhang State Key Laboratory of Advanced Environmental Technology, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China
11:45–12:00	ICEEH 22	An analytical framework for microplastic research Wenke Yuan ^{[1][2][3]} , Yuyi Yang ^{[4][5]} ^[1] Hubei Key Laboratory of Wetland Evolution & Ecological Restoration, Wuhan Botanical Garden, Chinese Academy of Sciences ~ Wuhan ~ China, ^[2] Key Laboratory of Lake and Watershed Science for Water Security, Wuhan Botanical Garden, Chinese Academy of Sciences ~ Wuhan ~ China, ^[3] Danjiangkou Wetland Ecosystem Field Scientific Observation and Research Station, Chinese Academy of Sciences & Hubei Province ~ Wuhan ~ China, ^[4] Hubei Key Laboratory of Microbial Transformation and Regulation of Biogenic Elements in the Middle Reaches of the Yangtze River, School of Environmental Ecology and Biological Engineering, Wuhan Institute of Technology ~ Wuhan ~ China, ^[5] State Key Laboratory of Green and Efficient Development of Phosphorus Resources, Wuhan Institute of Technology ~ Wuhan ~ China
12:00–12:15	ICEEH 23	Environmental behavior of microplastics and scientific use technology of plastic film in southwest karst region Dongfu Huang [*] , Lixi Zeng , Zhenming Zhang College of Resources and Environmental Engineering, Guizhou University ~ Guiyang ~ China
12:15–12:25	ICEEH 24	Global distribution of microplastic pollution in lakes Xintong Mei [*] Chengdu Institute of Biology, Chinese Academy of Sciences
12:25–12:35	ICEEH 25	The occurrence characteristics and ecological risk assessment of microplastics at the mountainous headwater Xin Liu [*] Chengdu Institute of Biology, Chinese Academy of Sciences
12:35–12:45	ICEEH 26	New insights into multi-endpoint toxicological profiles and potential molecular mechanisms for display-related organic light-emitting materials Mingxia Tang [*] , Wendong Wu , Yufei Wang , Xin Liu , Chao Li State Environmental Protection Key Laboratory of Wetland Ecology and Vegetation Restoration, Engineering Lab for Water Pollution Control and Resources Recovery, School of Environment, Northeast Normal University ~ Changchun ~ China

13:00–14:00	Lunch	
14:00–14:45	Plenary lecture Room A Chairpersons: Chris Le, Francesco Faiola Evolution of Nitroaromatics and Tire Antioxidants in Aerosol and Clouds Prof. Jianmin Chen Department of Environmental Science and Engineering, Institute of Atmospheric Sciences, Fudan University ~ Shanghai ~ China	
14:45–16:30	SFM-2 Sources, transport, fate and (bio)analytical methods for PTS – 2 Room A Chairpersons: Yong Cai, Runzeng Liu	
14:45–15:10	ID 73 (Keynote)	Iron redox cycling and dark mercury reduction at the sediment-water interface: emerging perspectives on reaction pathways and environmental significance Mazharul Islam, Guangliang Liu, Samuel Ogunsola, Yong Cai* Florida International University ~ Miami ~ United States of America
15:10–15:25	ID 77	Analysis of metal nanoparticles in biological samples and its application Lihong Liu*, Bin He, Ligang Hu, Guibin Jiang Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
15:25–15:40	ID 117	Bacterial interactions inhibit methylmercury production via EPS-reduced mercury bioavailability Xinyi Su*^[1], Yangyi Ke^[1], Yuping Xiang^[1], Yongguang Yin^[2], Yongmin Wang^[1], Jiajia Li^[1], Xiaojun Shi^[1], Dingyong Wang^[1] ^[1] Southwest University ~ Chongqing ~ China, ^[2] Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
15:40–15:55	ID 168	Identification of novel antimony species and their environmental implications Zhipeng Yin* Institute of Quality Standard and Testing Technology, Beijing Academy of Agriculture and Forestry Sciences ~ Beijing ~ China
15:55–16:10	ID 225	Tillage systems reshape contamination, source apportionment, and health risks of phthalate esters (PAEs) in agricultural soils Shuxin Tan*, Nihong Yao, Qiaoyun Huang, Wenli Chen Huazhong Agricultural University ~ Wuhan ~ China
14:45–16:30	HUM-2 Effects of PTS on human health – 2 Room C Chairpersons: Francesco Faiola, Chunyang Liao	
14:45–15:10	ID 132 (Keynote)	A 3D lung cancer stem cell tumoroid platform reveals pollutant-specific mechanisms of tumorigenesis Junhan Yang, Nuoya Yin, Renjun Yang, Francesco Faiola* State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
15:10–15:35	ID 154 (keynote)	Human exposure to phthalate esters and associated toxicological effects Jingcun Dong, Xueyu Weng, Jia Yin, Xianping Wei, Jing Ren, Qingqing Zhu, Chunyang Liao*, Guibin Jiang Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
15:35–15:50	ID 174	Global cancer burden associated with long-term exposure to ambient air pollution Gaoxin Zhang, Yingming Li*, Qinghua Zhang, Guibin Jiang Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
15:50–16:05	ID 179	Investigating the molecular mechanisms of 6PPD-Q in promoting non-alcoholic steatohepatitis (NASH) progression through ZBP1 protein Ming Gao* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
16:05–16:20	ID 112	Prenatal PCB and DDT exposures in 1960's Oakland California are linked to neighborhood disparity, age of menarche, midlife obesity, allostatic load, and Alzheimer plasma markers in black women through DNA methylation gene networks George Kuodza^[1], Sylvia Holesinger^[1], Nickilou Krigbaum^[2], Piera Cirillo^[2], Akilah Shahid^[3], Lianna Hartmour^[3], Bruce Link^[4], Pam Factor--Litvak^[5], Isha Mhatre--Winters^[6], Jason Richardson^[6], Barbara Cohn^[2], Janine Lasalle^[1] ^[1] University of California, Davis ~ Davis ~ United States of America, ^[2] Public Health Institute ~ Berkeley ~ United States of America, ^[3] Collaborative for Health & Environment ~ Bolinas ~ United States of America, ^[4] University of California, Riverside ~ Riverside ~ United States of America, ^[5] Columbia University ~ New York ~ United States of America, ^[6] University of Georgia ~ Athens ~ United States of America
14:45–16:30	MIT-3 Mitigation, remediation and NBS for PTS – 3 Room D Chairpersons: Abraham Esteve Núñez, Dario Frascari	
14:45–15:10	ID 227 (Keynote)	New trends for sustainable removal of emerging pollutants: giving water a safe second life Abraham Esteve Núñez* University of Alcalá & IMDEA WATER ~ Alcalá ~ Spain

15:10–15:25	ID 221	Unraveling the self-purification mechanisms of nature-based solutions for antibiotic mitigation Yujie He ^[1] , Xiaoming Yun ^[2] , Bin Wang ^[2] , Longxue Jiang ^[2] , Wenji Wang ^[2] , Wenhui Zhang ^[2] , Rong Ji ^[2] ^[1] Chongqing University ~ Chongqing ~ China, ^[2] Nanjing University ~ Nanjing ~ China
15:25–15:40	ID 102	From monitoring to modelling: predicting micropollutant removal and guiding quaternary treatment design Sara Piraldo ^[1] , Jessica Ianes ^[1] , Simona Olivi ^[2] , Francesco Avolio ^[2] , Fabio Polesel ^[3] , Enrico Remigi ^[3] , Beatrice Cantoni ^[1] , Manuela Antonelli ^[1] ^[1] Politecnico di Milano, Department of Civil and Environmental Engineering (DICA) - Environmental Section ~ Milano ~ Italy, ^[2] Hera SpA ~ Bologna ~ Italy, ^[3] DHI A/S ~ Hørsholm ~ Denmark
15:40–15:55	ID 135	Removal of UWWTD indicator micropollutants by the addition of PAC to a full-scale membrane bioreactor and environmental risk assessment of the residual pollutant load Paola Verlicchi ^[1] , Vittoria Grillini ^[1] , Giulia Dosso ^[1] , Marina Gutiérrez ^[2] , Dragana Mutavdžić Pavlović ^[3] , Paolo Morelli ^[4] , Laura De Lellis ^[4] , Marcello Zanella ^[5] , Francesco Avolio ^[5] ^[1] Department of Engineering, University of Ferrara ~ Ferrara ~ Italy, ^[2] R&D Department. AGALEUS MEDIO AMBIENTE Y ENERGIA S.L ~ Polígono Torrelarragoiti, Zamudio ~ Spain, ^[3] Department of Analytical Chemistry, University of Zagreb, Faculty of Chemical Engineering and Technology ~ Zagreb ~ Croatia, ^[4] Laboratory, Heratech srl ~ Bologna ~ Italy, ^[5] Water Direction, Hera SpA ~ Bologna ~ Italy
15:55–16:10	ID 143	Development of an adsorption & regeneration process to remove pharmaceutical micropollutants from municipal wastewater Dario Frascari [*] , Davide Pinelli , Elisa Girometti University of Bologna ~ Bologna ~ Italy
16:10–16:25	ID 202	Membrane-aerated biofilm reactor process for the biodegradation of pharmaceuticals downstream a wastewater adsorption treatment Elena Biagi [*] , Caterina Bosticco , Eliana Musmeci , Nicola Lasagna , Fabio Fava , Davide Pinelli , Giulio Zanolli University of Bologna ~ Bologna ~ Italy

16:30–17:00	Coffee Break & Poster Viewing	
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17:00–18:30	SFM-3 Sources, transport, fate and (bio)analytical methods for PTS – 3 Room A Chairpersons: Wei Chen, Yujie He	
17:00–17:25	ID 39 (Keynote)	Accelerating EDA through constructing EDT-screening HRMS libraries for nontarget toxicants Fei Cheng ^[2] , Huizhen Li ^[1] , Jing You ^[1] ^[1] Jinan University ~ Guangzhou ~ China, ^[2] Guangzhou Institute of Geochemistry, CAS ~ Guangzhou ~ China
17:25–17:40	ID 98	Development and application of reference materials for non-targeted analysis by liquid chromatography-high resolution mass spectrometry Yan Gao [*] , Jinglei Hu , Hongzheng Zheng , Qinghe Zhang National Institute of Metrology, China ~ Beijing ~ China
17:40–17:55	ID 121	Development and application of an EAD-based nontarget screening strategy for organochlorine and organobromine compounds Kan Xu [*] , Siqin Wang , Nanyang Yu , Si Wei Nanjing University ~ Nanjing ~ China
17:55–18:10	ID 67	A rapid on-site sampling device based on dispersive solid-phase extraction for screening emerging contaminants in water samples Yang Mei ^[2] , Huang Kai ^[2] , Jie Fu ^[2] , Jianjie Fu ^[1] ^[1] State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China, ^[2] Zhejiang Key Laboratory of Environment and Health of New Pollutants, School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China
17:00–18:30	MP-3 Microplastics and nanoplastics – 3 Room C Chairpersons: Yan He, Eliana Musmeci	
17:00–17:25	ID 172 (Keynote)	Cascading ecological risks from aging microplastics and co-occurring persistent toxic substances in soil-water systems Yan He [*] , Xin Su , Yiwen Xu , Shuyao Li , Jianming Xu State Key Laboratory of Soil Pollution Control and Safety, College of Environmental and Resource Sciences, Zhejiang University ~ Hangzhou ~ China
17:25–17:40	ID 10	Spatial distribution pattern and ecological risk effect of microplastics in soil Li Mu [*] Institute of Agro-Environmental Protection ~ Tianjin ~ China

17:40–17:55	ID 88	Temporal succession in freshwater plastispheres shapes polymer transformation and environmental fate Yadar Tadar* , Jung-Hwan Kwon Korea University ~ Seoul ~ Republic of Korea
17:55–18:10	ID 203	Microbial colonization and biodegradation of bioplastics in the marine environment at the water-sediment interface Eliana Musmeci^[1] , Rosaria Capuozzo ^[1] , Elena Maria Pedone ^[1] , Arianna Mancuso ^[2] , Erika Zamboni ^[1] , Caterina Bosticco ^[1] , Annamaria Celli ^[1] , Fabio Fava ^[1] , Stefano Goffredo ^[2] , Elena Biagi ^[1] , Giulio Zanaroli ^[1] ^[1] Dept. of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy ~ Bologna ~ Italy, ^[2] Dept. of Biological, Geological and Environmental Sciences – BIGEA, University of Bologna, Italy. ~ Bologna ~ Italy
18:10–18:25	ID 206	Interactions between marine microalgae and micro/nanoplastics: implications for stress response and water remediation Zhu Yang* Hong Kong Baptist University ~ Hong Kong ~ China
17:00–18:30	RISK-2 Risk assessment of PTS, modeling their fate and toxicity – 2 Room D Chairpersons: Antonio Marcomini, Fabrizio Passarini	
17:00–17:25	ID 226 (Keynote)	From long to short and ultrashort chain PFAS in the environment: sources, trends and implications for human health Antonio Marcomini* Department of Environmental Sciences, Informatics and Statistics, University of Venice Ca' Foscari ~ Venice ~ Italy
17:25–17:40	ID 64	Pollution characteristics and health risk of ultrashort - chain PFAS in cow's milk associated with feed and drinking water exposure Lei Zhang^[1] , Shiyi Chen ^[2] , Ziwei Pei ^[1] , Ashlyn Zhimei Xiao ^[1] , Jingguang Li ^[1] , Xin Liu ^[2] , Yongning Wu ^[1] ^[1] NHC Key Lab of Food Safety Risk Assessment ~ Beijing ~ China, ^[2] College of Food Science and Engineering, Wuhan Polytechnic University ~ Wuhan ~ China
17:40–17:55	ID 105	Assessment of per- and polyfluoroalkyl substances in disposable feminine hygiene products Dana Fahad Ms Mohamed* , Jung-Hwan Kwon Korea University ~ Seoul ~ Republic of Korea
17:55–18:10	ID 144	Ecotoxicological effects and risks of PFOA and PFOS alternatives in soil Jing Meng* , Haiming Li, Guijin Su Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
20:00–24:00	Gala Dinner Palazzo Gnudi Via Riva di Reno, 77 (https://maps.app.goo.gl/phWeNRsZrHtoGHwd8)	

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9:00 – 11:00	SFM-4 Sources, transport, fate and (bio)analytical methods for PTS – 4 Room A Chairpersons: Hanyong Peng, Yali Shi	
09:00–09:25	ID 196 (Keynote)	CRISPR nanotechnology for imaging and modulating key molecules in living cells Hanyong Peng* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
09:25–09:40	ID 164	Atmospheric transport and deposition of PFAS in east antarctica: evidence from snow transect measurements and a multidecadal record Xiaotong Li , Yali Shi* , Yaqi Cai , Guibin Jiang State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
09:40–09:55	ID 182	Standard-free single-molecule sensing of per- and polyfluoroalkyl carboxylic acids Kaipei Qiu* , Hong-Shuang Li , Jiaqi Zuo East China University of Science and Technology ~ Shanghai ~ China
09:55–10:10	ID 54	Quantifying the trophic transfer process and dietary source of legacy and emerging per- and polyfluoroalkyl substances in the food web in Bohai sea Deming Han* Zhejiang Key Laboratory of Environment and Health of New Pollutants, School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China
10:10–10:25	ID 45	Highly volatile POPs in urban air: dominance and transformation of volatile methylsiloxanes Shizhen Zhao* , Yuwei Xiao , Gan Zhang Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China
10:25–10:40	ID 208	Emerging contaminants from smartphone OLED screens: chemical inventories, indoor dust occurrence, and release pathways Yanna Liu* ^[1] , Yunhe Guo ^[2] , Yi Wang ^[3] , Guangbo Qu ^[1] , Guibin Jiang ^[1] ^[1] Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China, ^[2] Zhejiang University ~ Hangzhou ~ China, ^[3] Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Beijing ~ China
10:40–10:55	ID 218	Methylmercury degradation in straw-turned paddy soils during reoxygenation: insights into hydroxyl radical-mediated processes Xinyi Ke* , Yongmin Wang , Yuping Xiang , Tao Jiang , Xiaojun Shi , Dingyong Wang Southwest University ~ Chongqing ~ China
9:00 – 11:00	ECC-2 Emerging contaminants of concern – 2 Room C Chairpersons: Lingyan Zhu, Hui Li	
09:00–09:25	ID 140 (Keynote)	Characterization of human exposome and risk of reproductive hormone disruption by integrating GC-HRMS non-target analysis, molecular networking and knowledge transfer learning Xin Chen ^[1] , Rouyi Wang ^[1] , Hongyu Xie ^[2] , Jonathan Martin ^[3] , Lingyan Zhu* ^[1] ^[1] MOE Key Laboratory of Pollution Processes and Environmental Criteria, College of Environmental Science and Engineering, and Academy for Advanced Interdisciplinary Studies, Nankai University ~ Tianjin ~ China, ^[2] Department of Environmental Science, Stockholm University ~ Stockholm ~ Sweden, ^[3] National Facility for Exposomics, Metabolomics and Exposomics Platform, Science for Life Laboratory, Stockholm University ~ Stockholm ~ Sweden
09:25–09:40	ID 20	Hot-contact food packaging as a nonnegligible PFAS exposure pathway in China's fast-food market Xiaomin Li* ^[1] , Nannan Zhao ^[1] , Yuxin Liu ^[1] , Jianjie Fu ^[2] , Guibin Jiang ^[2] ^[1] Institute of Quality Standards and Testing Technology for Agro-Products, Chinese Academy of Agricultural Sciences ~ Beijing ~ China, ^[2] Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
09:40–09:55	ID 169	One-health framework of per- and polyfluoroalkyl substances in agricultural environments Hui Li* Michigan State University ~ East Lansing, Michigan ~ United States of America
09:55–10:10	ID 149	Fate and transformation of psychotropic drugs in urban wastewater systems and receiving rivers via the integration of targeted and suspect screening analysis An-Guo Wang* ^[1] , Jin-Na Zhang ^[2] , Mei-Ying Xu ^[3] , Zhi-Qiang Yu ^[1] ^[1] Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China, ^[2] South China Normal University ~ Guangzhou ~ China, ^[3] Institute of Microbiology, Guangdong Academy of Sciences ~ Guangzhou ~ China
10:10–10:25	ID 173	Temperature modulates the dissolved organic matter-mediated triplet and singlet oxygen formation: implications for ractopamine photodegradation Shiqin Mao ^[1] , Weiming Xiang ^[1] , Dong Wan ^[2] , Ruijun Lv ^[1] , Gaoqi Zheng ^[1] , Ziwen Nie ^[1] , Fan Luo ^[1] , Yong Chen* ^[1] ^[1] Huazhong University of Science and Technology ~ Wuhan ~ China, ^[2] Institute of Hydrobiology, Chinese Academy of Sciences ~ Wuhan ~ China

9:00 – 11:00 ET-2 Emerging technologies for monitoring, mitigating and removing PTS – 2 Room D Chairpersons: Daniel Schlenk, Wei Wang		
09:00–09:25	ID 170 (Keynote)	Machine learning-based automated digital histopathology increases throughput and provides new insights into biomonitoring Daniel Schlenk ^[1] , Pierre Liboureau ^[2] , Kristy Forsgren ^[3] , Daniela M Pampanin ^[2] ^[1] University of California, Riverside ~ Riverside ~ United States of America, ^[2] University of Stavanger ~ Stavanger ~ Norway, ^[3] California State University Fullerton ~ Fullerton ~ United States of America
09:25–09:40	ID 47	MCGPCR: a multimodal learning framework with applicability domain characterization for predicting GPCR affinity of chemicals Wenjia Liu [*] , Jingwen Chen Dalian University of Technology ~ Dalian ~ China
09:40–09:55	ID 49	Engineered whole-cell and cell-free microbial sensors for environmental pollutants: a proof-of-concept expansion toward gut metabolite-based toxicity assessment Xinyi Wan [*] , Aiai Wang , Qingyu Wang , Jiujuan Zhao , Minglu Li , Yingying Lu Hainan University ~ Haikou ~ China
09:55–10:10	ID 171	Integrated ecological risk predictions platform: advancing aquatic ecological risk assessment Peiling Han ^[1] , Jingwen Chen ^[1] , Yongle Zhu ^[1] , Jingyuan Yang ^[1] , Willie Peijnenburg ^[2] , Xuehua Li ^[1] ^[1] Laboratory of Industrial Ecology and Environmental Engineering (Ministry of Education), Dalian Key Laboratory on Chemicals Risk Control and Pollution Prevention Technology, School of Environmental Science and Technology, Dalian University of Technology ~ China, ^[2] Institute of Environmental Sciences (CML), Leiden University ~ Leiden ~ Netherlands
10:10–10:25	ID 13	The application of 3D printing for environmental analysis Dingyi Wang [*] , Guibin Jiang Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
10:25–10:40	ID 195	Electron beam-based remediation and detoxification of refractory organic pollutants Wei Wang [*] , Jiageng Yu , Jay Gan Zhejiang University ~ Hangzhou ~ China

11:00 – 11:30	Coffee Break & Poster Viewing
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11:30 – 12:15	Plenary lecture Room A Chairpersons: Fabio Fava, Rong Ji Designing the Future: Implementing the safe and sustainable by design chemicals framework for a Toxic-Free Economy Dr. Serenella Sala European Commission, Joint Research Centre, Directorate D – Sustainable Resources, Sustainable Supply Chains and Bioeconomy Unit (D3) ~ Ispra ~ Italy
12:15 – 13:30	Closing ceremony and Awards Room A Young scientist awards Best oral and poster awards Presentation of the ISPTS 2027 conference – Prof. Jing You Presentation of the ISPTS 2028 conference – Prof. Abraham Esteve Nunez Closing remarks by conference co-chairs

13:30 – 14:30	Lunch
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14:30 – 18:30	Conference Excursion (Bologna Walking Tour) 14:30: Meet at the Congress Venue
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13th September 2026

9:00 – 18:00	Conference Excursion (Ravenna Guided Tour) 8:45: Meet at the Mathematics School of the University of Bologna Piazza di Porta San Donato, 5 https://maps.app.goo.gl/bRSSCLqhPVNzpWKB9
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Posters - ISPTS 2026 topics

SFM | Sources, transport, fate and (bio)analytical methods for PTS

Panel No.	Abstract ID	Title
1	ID 38	Environmental parameter-calibrated models for predicting sediment-water partitioning behaviors of diverse emerging contaminants in lotic waterways Huizhen Li* , Jing You Jinan University ~ Guangzhou ~ China
2	ID 44	Hollow Co/Zn-bimetallic ZIF-derived nanoporous carbons with enhanced stability for in-situ solid phase microextraction of halogenated polycyclic aromatic hydrocarbons in fish muscle Jijie Kong ^[2] , Cheng Sun ^{*[1]} , Huan He ^[2] ^[1] School of Environment, Nanjing University ~ Nanjing ~ China, ^[2] School of Environment, Nanjing Normal University ~ Nanjing ~ China
3	ID 61	Monsoon-driven transboundary transport of organophosphate esters from Nepal to the Tibetan plateau Yiyao Pan , Ruiqiang Yang* State Key Laboratory of Environmental Chemistry and Toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
4	ID 68	One-step synthesis of defect-rich molecularly imprinted ZR-MOF for selective capture and trace detection of alternariol in cereals Rusong Zhao* , Lu Liu , Ling--Xi Zhao , Xia Wang Shandong Analysis and Testing Center ~ jinan ~ China
5	ID 78	Spatiotemporal distribution, source apportionment, and ecological risk of bisphenol analogues in a highly urbanized river basin Xin Qian* , Sheng Zhang Nanjing University ~ Nanjing ~ China
6	ID 86	Unrecognized role of photosynthetic bacteria in aquaculture water purification: producing singlet oxygen to degrade residual pharmaceuticals Guo-Ping Sheng* University of Science and Technology of China ~ Hefei ~ China
7	ID 90	Geochemical modeling of arsenic partition in soil Xueyuan Gu* Nanjing University, School of Environment ~ Nanjing ~ China
8	ID 99	Ionic liquids accelerate the crystallization of a magnetic fluorine-functionalized 3D covalent organic framework for efficient capture of trace benzoylurea insecticides in juices and beverages Liu Lu* , Zhao Rusong , Zhao Lingxi Shandong Analysis and Test Center ~ Jinan ~ China
9	ID 100	Efficient degradation of fluconazole by No-Ni LDH@NF activated peracetic acid: performance, mechanism, and toxicity assessment bimetallic hydroxide Lingxi Zhao* , Rusong Zhao , Lu Liu Shandong Analysis and Test Center ~ jinan ~ China
10	ID 107	Single-zygote M6A epitranscriptome Rui Zhang ^{*[1]} , Sijie Mei ^[2] , Hailin Wang ^[2] ^[1] Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China, ^[2] State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
11	ID 110	Soot as a mass spectrometry probe for simple, rapid and cost-effective high-throughput screening of multiple environmental new pollutants Zhao Shu* , Qian Liu , Guibin Jiang Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, State Key Laboratory of environmental chemistry and environmental toxicology ~ Beijing ~ China
12	ID 113	Occurrence and transport of legacy hexabromocyclododecanes at a decommissioned production site Bing Du ^{*[1]} , Li Qi ^[1] , Jing Yang ^[2] ^[1] State Environmental Protection Key Laboratory of Dioxin Pollution Control, National Research Center for Environmental Analysis and Measurement ~ Beijing ~ China, ^[2] Hangzhou Institute for Advanced Study, UCAS ~ Hangzhou ~ China; State Environmental Protection Key Laboratory of Dioxin Pollution Control, National Research Center for Environmental Analysis and Measurement, Beijing ~ China; University of Chines

13	ID 128	Research on pre-treatment methods and development of single-particle characterization techniques for micro- and nano-plastics in the environment Gang Li* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
14	ID 156	Tissue-specific bioaccumulation and temporal trends of legacy and emerging PFAS in common dolphins (<i>Delphinus delphis</i>) from 2002 to 2023 Sieun Hwang , Haejin Im , Sori Mok , Mangong Shin , Hyo-Bang Moon* Hanyang University ~ Ansan ~ Korea, Republic of
15	ID 159	Occurrence and ecological risks of PPCPs in surface water of Baiyangdian lake, China Yuting Ling , Xingyu Chen , Linyan Huang , Yaxian Zhao* , Qin Zhang State Environmental Protection Key Laboratory of Environmental Pollutant Metrology and Reference Materials, Institute for Environmental Reference Materials, Environment Development Centre of the Ministry of Ecology and Environment ~ Beijing ~ China
16	ID 191	Regional variation in the concentrations and compositional profiles of per- and polyfluoroalkyl substances (PFAS) in road dust from Korea and Vietnam Myeong-Cheol Kim* , Wonsik Shin , Dat Thanh Pham , Dana Fahad Mohamed Salman Mohamed , Jung-Hwan Kwon Korea University ~ Seoul ~ Korea, Republic of
17	ID 192	A reversible lithium sensitive probe enables visualization of lithium dynamics and reveals mitochondrial toxicity in living human cells Gong Cheng^[1] , Yin Liu^[1] , Xuezhi Yang^[1] , Songyan Zhang^[2] , Bin Zhao^{*[1]} ^[1] School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ HANGZHOU ~ China, ^[2] Hangzhou Tox-sense Biotechnology Co., Ltd ~ Hangzhou ~ China
18	ID 194	Analysis of vehicle-related non-exhaust PM10 and emerging pollutants in Beijing with machine-learning Sha Chen* , Yuxin Liu , Zhanxia Du Beijing University of Technology ~ Beijing ~ China
19	ID 224	Progress on environmental behaviors of ultrashort-chain perfluoroalkyl substances Wang Yawei* , Jiang Guibin Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China

ECC | Emerging contaminants of concern

Panel No.	Abstract ID	Title
20	ID 2	Biological effects of nano-enabled agrochemicals on tomato seedlings: case study of propiconazole Ying Zhang* , Gang Su , Xie Quan Dalian University of Technology ~ Dalian ~ China
21	ID 28	Cationic covalent organic framework as solid-phase microextraction fiber coating for rapid and sensitive determination of legacy and novel brominated flame retardants in water Fang Zhu* , Tianning Chen SUN YAT-SEN ~ Guangzhou ~ China
22	ID 41	Toward a risk-oriented planetary boundary for novel entities: a life cycle perspective Fan Wu* Jinan University ~ Guangzhou ~ China
23	ID 58	Naturally aged mulch films alter soil nitrogen availability through carbon metabolism and microbial interactions Yuanfei Gao^[1] , Rui Yang^[1] , Shuhan Li^[1] , Yuchen Guo^[1] , Feifan Ren^[1] , Lusheng Zhu^[1] , Lanjuan Wang^[1] , Yibo Gao^[1] , Yuhan Ye^[1] , Young Mo Kim^[2] , Jinhua Wang^{*[1]} ^[1] Shandong Agricultural University ~ Taian ~ China, ^[2] Hanyang University ~ Seongdong-gu, Seoul 04763, Republic of Korea ~ Korea, Republic of
24	ID 74	An integrated hazard framework for evaluating legacy and alternative plasticizers at the polymer-biofilm interface Dana Fahad Ms Mohamed* , Jiyul An , Jung-Hwan Kwon Korea University ~ Seoul ~ Korea, Republic of
25	ID 81	Mass balance analysis of extractable fluorine in Chinese drinking water: significant contributions from unidentified organofluorine and inorganic fluorinated anions Enmiao Jiao , Yanling Qiu* , Daqiang Yin , Li Xie , Weihai Pang , Zhiliang Zhu Key Laboratory of Yangtze River Water Environment, College of Environmental Science and Engineering, Tongji University ~ Shanghai ~ China
26	ID 92	Widespread occurrence of tire wear <i>p</i>-phenylenediamines and their quinones in cloud water Runqi Zhang , Jianmin Chen* Fudan university ~ Shanghai ~ China

27	ID 93	Occurrence and transformation of antioxidants in rubberized asphalt Xiaoyun Liu* , Wenlong Zhu , Yanli Wang , Runzeng Liu Shandong University ~ Qingdao ~ China
28	ID 136	Formation mechanisms of persistent organic pollutants intermediated by organic free radicals Yang Lili* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
29	ID 142	Integrated target, suspect, and non-target analysis combined with machine learning-assisted semi-quantification for comprehensive PFAS characterization in wastewater treatment plants Junho Jeon ^[2] , Sangdon Kim ^[1] ^[1] Department of Environment and Energy Engineering, GIST ~ Gwangju ~ Korea, Republic of, ^[2] School of Smart and Green Engineering, Changwon National University ~ Changwon, Gyeongsangnamdo ~ Korea, Republic of
30	ID 150	Fate and transformation of psychotropic drugs in urban wastewater systems and receiving rivers via the integration of targeted and suspect screening analysis An-Guo Wang ^[1] , Jin-Na Zhang ^[2] , Mei-Ying Xu ^[3] , Zhi-Qiang Yu ^[1] ^[1] Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China, ^[2] South China Normal University ~ Guangzhou ~ China, ^[3] Institute of Microbiology, Guangdong Academy of Sciences ~ Guangzhou ~ China
31	ID 163	Organophosphate esters and their metabolites in commercially available pre-prepared dishes: occurrence, migration from food contact materials, and dietary exposure Zhixiong Shi* , Minghao Sun , Sai Fan Capital Medical University ~ Beijing ~ China
32	ID 184	Certification of 11 perfluoroalkyl substances in water reference material Linyan Huang , Xingyu Chen* , Yaxian Zhao , Yanhui Zhao , Gang Yang , Haiping Liu , Bingwen Lu 1. Institute for Environmental Reference Materials, Environmental Development Centre of the Ministry of Ecology and Environment 2. Key Laboratory of Eco-Environmental Pollutant Metrology and Reference Materials ~ Beijing ~ China
33	ID 197	Development and application of analytical methods for the identification of emerging contaminants and their transformation products Xiaoxia Feng* Shandong University ~ Qingdao ~ China
34	ID 207	Characterization of chemical additives in daily clothing regarding human exposure and environmental emissions Xiaomeng Ji* , Xingchen Zhao , Runzeng Liu Shandong University ~ Qingdao ~ China

MP | Microplastics and nanoplastics

Panel No.	Abstract ID	Title
35	ID 18	Differential effects of PE and PLA microplastics on alfalfa-soil interactions Mei Li* , Zhanling Wang Nanjing University ~ Nanjing ~ China
36	ID 52	An overlooked contributor to data heterogeneity in M/NPS laboratory research: unintended transformation of polystyrene commercial reference materials Qinzhou Zhang ^[1] , Ruiling Li ^[2] , Chaoxian Wei ^[2] , Yaxian Zhu ^[3] , Yong Zhang ^[1] ^[1] Xiamen University ~ Xiamen ~ China, ^[2] Environmental and Plant Protection Institute, Chinese Academy of Tropical Agricultural Sciences ~ Haikou ~ China, ^[3] Chemistry and Chemical Engineering ~ Xiamen ~ China
37	ID 66	The dual roles of carbon black in the photoaging process of black mulch films Shixiang Gao* , Wen Shao Nanjing University ~ Nanjing ~ China
38	ID 127	Leaf absorption contributes to accumulation of microplastics in plants Ye Li* , Lei Wang Nankai University ~ Tianjin ~ China
39	ID 147	Size-dependent translocation of polystyrene nanoplastics across biological barriers in mammals Hongjie Zhang , Rong Ji , Aijun Miao* Nanjing University ~ Nanjing ~ China

TOX | Toxicology and eco-toxicology of PTS

Panel No.	Abstract ID	Title
40	ID 14	Comparison of the combined toxicity of PFOA and emerging alternatives: a comprehensive evaluation of oxidative damage, apoptosis and immunotoxicity in zebrafish embryo and adult Chengbo Lu , Xiaole Wang , Jingwen Zhang , Lusheng Zhu* , Jinhua Wang College of Resources and Environment, Shandong Agricultural University ~ Taian ~ China
41	ID 17	Comparative developmental toxicity of trifluoroacetic acid (TFA) and trifluoromethanesulfonic acid (TFMS) in zebrafish embryos at environmentally relevant concentrations Jiayin Dai* , Nan Sheng Key Laboratory of Environmental Health Impact Assessment of Emerging Contaminants, Ministry of Ecology and Environment; State Key Laboratory of Green Papermaking and Resource Recycling; School of Environmental Science and Engineering, Shanghai Jiao Tong U
42	ID 56	Tetrabromobisphenol A induces neurotoxicity and hepatic insulin resistance in zebrafish: insights from pollutant–diet interactions Bingsheng Zhou* , Xinxin Ren , Yuxi Zhou Institute of Hydrobiology, Chinese Academy of Sciences ~ Wuhan ~ China
43	ID 57	Effect and mechanism of renal toxicity induced by sodium <i>p</i>-perfluorooctanesulfonate (OPS) in mice Wenjue Zhong* , Yang Lyu , Lingyan Zhu Nankai University ~ Tianjin ~ China
44	ID 59	Investigation of the pulmonary toxicity of environmental pollutants using a lung cancer stem cell model Junhan Yang* , Nuoya Yin , Renjun Yang , Francesco Faiola Research Center for Eco-Environmental Sciences Chinese Academy of Sciences ~ Beijing ~ China
45	ID 75	Polyphosphate as an indicator of persistent toxic substances' toxicity to algae Liuyan Yang* Nanjing University ~ Nanjing ~ China
46	ID 91	Salinity modulates hormetic responses of the estuarine diatom <i>Chaetoceros muelleri</i> to short-chain chlorinated paraffins: insights from physiology and transcriptomics Keran Xu , Dali Wang* , Huizhen Li , Jing You College of Environment and Climate, Jinan University ~ Guangzhou ~ China
47	ID 141	Activation of mitochondrial unfolded protein response conferred cadmium resistance in <i>Caenorhabditis elegans</i> Shunchang Wang* , Tianjiao Liu , Dandan Zhu Huainan Normal University ~ Huainan ~ China
48	ID 153	Toxicity and defense mechanism of microalgae under carbamazepine and fluoxetine stress Lin Xiao* Nanjing University ~ Nanjing ~ China
49	ID 187	Paternal preconception calcitriol intervention rescues DBDPE-induced transgenerational developmental and visual toxicity in zebrafish Lihua Yang* ^[1] , Yindan Zhang ^[2] , Jian Han ^[2] , Bingsheng Zhou ^[2] ^[1] Huazhong Agricultural University ~ Wuhan ~ China, ^[2] Institute of Hydrobiology, Chinese Academy of Sciences ~ Wuhan ~ China
50	ID 188	The coupling toxicity of PFOS and small molecule Shujuan Zhang* Nanjing University ~ Nanjing ~ China
51	ID 220	Prenatal and postnatal Pb exposure induce cell-specific neurotoxicity and dysregulated microglia-neuron communication in mice brain Xuting Liu* Hangzhou Institute for Advanced Study, UCAS ~ Hangzhou ~ China

HUM | Effects of PTS on human health

Panel No.	Abstract ID	Title
52	ID 96	Mixture effects of prenatal antibiotic exposure on gestational diabetes mellitus and the mediating role of serum lipopolysaccharide Jing Liu* Zhejiang University ~ Hangzhou ~ China

53	ID 108	Extracellular vesicles as critical mediators of PFAS hepatotoxicity: proteomic evidence for enhanced sensitivity and PPAR pathway activation Zanzan Qin , Nali Zhu* , Yawei Wang , Guibin Jiang School of Environment, Hangzhou Institute for Advanced Study, UCAS ~ Hangzhou ~ China
54	ID 111	Endocrine-disrupting chemicals promote spontaneous abortion by inhibiting the production of estrogen Qingqing Zhu* , Yu Hu , Chunyang Liao , Guibin Jiang State Key Laboratory of Environmental Chemistry and Toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
55	ID 125	Analysis of environmental contaminants exposure and potential pathogenicity of primary membranous nephropathy Jingping Yang* Nanjing University ~ Nanjing ~ China
56	ID 205	Promotion of Environment & Health (E&H) Suqin Liu* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China

RISK | Risk assessment of PTS, and modeling their fate and toxicity

Panel No.	Abstract ID	Title
57	ID 148	Global burden and estrogenic risk of per- and polyfluoroalkyl substances in cetaceans Kai Huang ^[1] , Fuxing Wu ^[2] , Jie Fu ^[1] , Jianjie Fu ^[3] , Guibin Jiang ^[3] ^[1] Zhejiang Key Laboratory of Environment and Health of New Pollutants, School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China, ^[2] Third Institute of Oceanography, Ministry of Natural Resources, Xiamen, 361005, China ~ Xiamen ~ China, ^[3] State Key Laboratory of Environmental Chemistry and Toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
58	ID 219	An integrated NAM-based alveolar platform for the safety assessment of inhalable two-dimensional materials Andrea Bertacca* , Francesca Gatto , Saverio Caporalini , Pier Paolo Pompa , Stefania Sabella Italian Institute of Technology ~ Genoa ~ Italy

MIT | Mitigation, remediation and Nature Based Solutions for tackling PTS contamination

Panel No.	Abstract ID	Title
59	ID 1	Exploring treatment technology of spent lithium-ion battery discharging wastewater with MBR under increasing salinity Hui Guo , Yuxiu Zhang* School of Chemical and Environmental Engineering, China University of Mining and Technology-Beijing ~ Beijing ~ China
60	ID 16	Biodegradation of sulfonamide antibiotics by a soil bacteria enrichment and the impacts of soil organic matter Qilin Wang ^[1] , Feifei Sun ^[2] , Philippe Corvini ^[3] , Rong Ji ^[1] ^[1] State Key Laboratory of Water Pollution Control and Green Resource Recycling, School of the Environment, Nanjing University ~ Nanjing ~ China, ^[2] Key Laboratory of Agro-Forestry Environmental Processes and Ecological Regulation of Hainan Province, School of Environmental Science and Engineering, Hainan University ~ Haikou ~ China, ^[3] Institute for Chemistry and Bioanalytics, School of Life Sciences, University of Applied Sciences and Arts Northwestern Switzerland ~ Muttenz ~ Switzerland
61	ID 19	Synthetic consortia of endophytic bacteria efficiently remediate soil cadmium pollution in pepper planting via multiple mechanisms Qiuling Li , Kaiheng Lu , Yarong Xue , Changhong Liu* QL ~ Nanjing ~ China
62	ID 25	Nanotechnology-enabled green remediation of legacy and emerging groundwater contamination at complex industrial clusters Wei Chen* Nankai University ~ Tianjin ~ China
63	ID 69	Mitigating ecological risks: role of arbuscular mycorrhizal symbiosis in translocation and transformation of per- and polyfluoroalkyl substances in constructed wetlands Yuchen Wang ^[1] , Shanshan Hu ^[1] , Fengxiang Zhu ^[1] , Xue Li ^[1] , Lexing You ^[1] , Zhongbing Chen ^[2] , Bo Hu ^[1] , Feng Zhao ^[3] ^[1] College of Geography and Environmental Sciences, Zhejiang Normal University ~ Jinhua ~ China, ^[2] Czech University of Life Sciences Prague ~ Prague ~ Czech Republic, ^[3] State Key Laboratory of Advanced Environmental Technology, Institute of Urban Environment, Chinese Academy of Sciences ~ Xiamen ~ China

64	ID 103	Simultaneous deep dehalogenation and mineralization of refractory halogenated organics: a synergistic reduction-oxidation process in the ZVI-water system Wenjun Zhou, Lisha Yang* Zhejiang university ~ Hangzhou ~ China
65	ID 133	Thyroid disruption by low-dose pollutant mixtures at children's serum levels Mengying Teng* ^[1] , Jianhui Zhuang ^[1] , Lili Yang ^[1] , Yu Chen ^[1] , Yinuo Chen ^[1] , Yi Gao ^[1] , Cong Tan ^[1] , Yubin Zhang ^[1] , Melvin E Andersen ^[2] , Qiang Zhang ^[3] , Weidong Qu ^[1] ^[1] Fudan University ~ Shanghai ~ China, ^[2] ScitoVation ~ Durham ~ United States of America, ^[3] Emory University ~ Atlanta ~ United States of America
66	ID 152	A missing reduction pathway of Hg(II) by coupled reactions in mineral-Hg-DOM ternary systems Ruiyang Sun, Jiating Zhao* ZHEJIANG UNIVERSITY ~ HANGZHOU ~ China
67	ID 177	Coupling noncovalent C-F bond activation with interfacial electron transfer for ambient PFAS defluorination Lidan Zhang* ^[1] , Yuhong Huang ^[1] , Jieping Wang ^[2] , Jianjie Fu ^[2] , Rong Ji ^[1] , Guibin Jiang ^[3] ^[1] State Key Laboratory of Water Pollution Control and Green Resource Recycling, School of the Environment, Nanjing University ~ Nanjing ~ China, ^[2] School of Environment, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China, ^[3] State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
68	ID 199	Development of sustainable chitosan/graphene oxide hybrid systems for wastewater remediation Marco Fiore* , Ludovica Scorzafave , Marcello Greco , Manuela Curcio , Francesca Iemma , Giuseppe Cirillo , Fiore Pasquale Nicoletta University of Calabria ~ Rende ~ Italy
69	ID 216	Environmental performance in treating landfill leachate pollution: comparison between two industrial-scale treatment plants and challenges in PFAS removal efficiency Federico Bedogni* ^[1] , Massimo Facchini ^[2] , Claudia Fantozzi ^[2] , Fabrizio Passarini ^[1] ^[1] Department of Industrial Chemistry "Toso Montanari", University of Bologna ~ Bologna ~ Italy, ^[2] Herambiente S.p.A ~ Bologna ~ Italy
70	ID 217	Phytoremediation of microplastic-heavy metal co-contaminated farmland under microbial enhancement Dong Li* Hainan University ~ Haikou ~ China
71	ID 229	Bioelectrochemical strategies for biodegrading and biosensing emerging contaminants in urban wastewater Belén Barroeta* ^[2] , Silvia Blázquez ^[3] , Mario Jiménez ^[3] , Sheila de Pablo-Casas ^[1] , Anna Salvian ^[2] , Antonio Berná ^[2] , Jesús Vázquez ^[4] , Juan Manuel Ortiz ^[2] , Ramiro Blasco ^[3] , Abraham Esteve-Núñez ^{[1][2]} ^[1] Universidad de Alcalá ~ Madrid ~ Spain, ^[2] IMDEA WATER ~ Madrid ~ Spain, ^[3] METfilter ~ Madrid ~ Spain, ^[4] Nanoelectra ~ Madrid ~ Spain

ET | Emerging technologies (e.g., AI, Biotech, advanced materials) for monitoring, mitigating and removing PTS and other contaminants

Panel No.	Abstract ID	Title
72	ID 21	Sustainable 102 generation mediated by NICU-LDH oxygen vacancies for effectively degrading tetracycline at normal temperature and pressure: lattice oxygen consumption and regeneration Kang Zhang, Yin Xu* Xiangtan University College of Environment and Resources ~ Xiangtan ~ China
73	ID 29	Emergent toxicity pathways in complex environmental mixtures characterized by informatics entropy of AHR-AOPN Fei Cheng* Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China
74	ID 31	Mechanistic insights into dichloromethane adsorption by nitrogen-functionalized biochar Jinjing Luo* , Mingming Peng XIAMEN UNIVERSITY ~ XIAMEN ~ China
75	ID 40	Forecasting mercury emissions in the Americas with a dual-stream Koopman-wave network Di Gao* , Yuhua Zheng , Nali Zhu , Chonghui Zheng , Hongyu Li Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences ~ Hangzhou ~ China
76	ID 79	Photocatalytic WO3/CTF-1 for ciprofloxacin degradation Wenfeng Jiang* Dalian University of Technology ~ Dalian ~ China

77	ID 82	Efficient sulfonamides quantification in aquatic and in vivo samples by SPME-LC-MS/MS based on hyper-crosslinked porous polymer Pengfei Ye, Tianning Chen, Wenhong Ruan*, Fangzhu Zhu, Gangfeng Ouyang Sun Yat-sen University ~ Guangzhou ~ China
78	ID 95	Development of an integrated pre-concentration system for waterborne bacterial monitoring: preliminary validation using <i>Helicobacter pylori</i> Maria Moyseos*^[1], Christina Rein^[2], Panayiota Demosthenous^[1], Michael Seidel^[2] ^[1]Cyprus Research and Innovation Center Ltd (CYRIC) ~ NICOSIA ~ Cyprus, ^[2]Technical University of Munich (TUM) ~ Munich ~ Germany
79	ID 109	Toxicity testing biosensor: a NAMS technology for chemical toxicity testing and toxicological investigation Lianghong Guo* Hangzhou Institute for Advanced Study, UCAS ~ Hangzhou ~ China
80	ID 124	Pseudodata-based molecular structure generator to reveal unknown chemicals Nanyang Yu, Si Wei* Nanjing University ~ Nanjing ~ China
81	ID 158	Development of electrochemical biosensors and their applications in water toxicity monitoring Jingting Wang* Chengdu Institute of Biology, Chinese Academy of Sciences ~ Chengdu ~ China
82	ID 161	3D bioprinting of bacteria-laden living materials for the determination of mercury in water Xudong Guo, Bin He*, Ligang Hu, Guibin Jiang State Key Laboratory of Environmental Chemistry and Toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences ~ Beijing ~ China
83	ID 180	Broad-spectrum defluorination via electronic strain of carbon-fluorine bonds: a 'biomimetic fluorophilic' zero-valent metal system Lisha Yang* Zhejiang University ~ Hangzhou ~ China
84	ID 193	A knowledge Graph-Bayesian network-driven suspect screening strategy for phthalate exposure assessment Zhiqiang Yu* Guangzhou Institute of Geochemistry, Chinese Academy of Sciences ~ Guangzhou ~ China

Posters - ICEEH 2026

Panel No.	Abstract ID	Title
85	ICEEH P1	A phosphate-cycling bacterium enhances antimonate biomineralization and phosphate activation through organic acid metabolism in riparian sediments Rongna Liu^[1], Chunguang Liu^{*[1][2]}, Yujiang Li^[1] ^[1]Shandong Key Laboratory of Environmental Processes and Health, School of Environmental Science and Engineering, Shandong University ~ Qingdao ~ China, ^[2]Laboratory of Marine Ecological Environment in Universities of Shandong, Shandong University, ~ Qingdao ~ China
86	ICEEH P2	Dinotefuran exposure induces glucose and lipid metabolism disorders in mice by disrupting gut microbiota: a multi-omics study Axia Wang^{[1][3]}, Xin Ren^[2], Manni Wu^[1], Haoyu Liu^[3], Zenglong Chen^{*[1]} ^[1]State Key Laboratory of Animal Biodiversity Conservation and Integrated Pest Management, Institute of Zoology, Chinese Academy of Sciences ~ Beijing ~ China, ^[2]National Grain Industry Highland Barley Deep Processing Technology Innovation Center, School of Food and Health, Beijing Technology and Business University ~ Beijing ~ China, ^[3]School of Life Sciences, Hebei University ~ Baoding ~ China
87	ICEEH P3	Polystyrene nanoplastics impairs the osmotic adaption capacity of an estuarine species <i>Perinereis aibuhitensis</i> during acute salinity fluctuations Dali Wang[*], Jing You Guangdong Key Laboratory of Environmental Pollution and Health, College of Environment and Climate, Jinan University ~ Guangzhou ~ China
88	ICEEH P4	Conventional and biodegradable microplastics distinctly regulate cadmium accumulation and lipid homeostasis in maize Huijun Li^[1], Yichao Huang^[2], Chuanxin Ma^[3], Jian Zhao^{[4][5]}, Xiaochen Huang^{*[1]} ^[1]Guangdong Provincial Key Laboratory of Plant Stress Biology, School of Agriculture and Biotechnology, Shenzhen Campus of Sun Yat-sen University ~ Shenzhen ~ China, ^[2]Department of Toxicology, School of Public Health, Key Laboratory of Environmental Toxicology of Anhui Higher Education Institutes, Anhui Medical University ~ Hefei ~ China, ^[3]Guangdong Basic Research Center of Excellence for Ecological Security and Green Development, Key Laboratory for City Cluster Environmental Safety and Green Development of the Ministry of Education, School of Ecology, Environment and Resources, Guangdong University of Technology ~ Guangzhou ~ China, ^[4]Institute of Coastal Environmental Pollution Control, Key Laboratory of Marine Environment and Ecology (Ministry of Education), Ocean University of China ~ Qingdao ~ China, ^[5]Laboratory for Marine Ecology and Environmental Science, Qingdao Marine Science and Technology Center ~ Qingdao ~ China
89	ICEEH P5	Arbuscular mycorrhizal fungi (AMF) coupled with hyphosphere bacteria for remediation of Cr(VI)-contaminated soil Xia Wang[*] Sichuan Normal University
90	ICEEH P6	Effects of co-occurring PFASs and CAHs on microbial communities in soil and groundwater: ecological niches and implications for bioremediation Changxun Dong[*] College of Sciences, Nanjing Agricultural University ~ Nanjing ~ China

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- Targeting & Non-Targeted Analysis
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- **Impact Factor: 13.4 (Q1)**
- **CiteScore: 23.6**
- **China Excellence Action Plan: High Starting Point Journals**
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PROFILE

EEH is an international and multidisciplinary peer-reviewed journal designed for publications on the frontiers of the ecology, environment and health as well as their related disciplines. EEH focuses on the concept of "One Health" to promote green and sustainable development, dealing with the interactions among ecology, environment and health, and the underlying mechanisms and interventions. EEH has been indexed in 15 databases including **ESCI**, Scopus, DOAJ, CSCD, and PubMed Central.

SCOPES

- **ECOLOGY AND BIODIVERSITY CONSERVATION**
 - Biodiversity
 - Ecological Restoration
 - Ecological Safety
 - Protected Areas
- **ENVIRONMENTAL BEHAVIORS AND BIOPROCESSES OF EMERGING CONTAMINANTS**
 - Environmental Microbiology
 - Environmental Behavior
 - Environmental Processes



- **HUMAN EXPOSURE AND HEALTH EFFECTS**
 - Environmental Epidemiology
 - Human Health Risk
 - Environmental Exposure
 - Environmental Toxicology
- **EVALUATION, MANAGEMENT, AND REGULATION OF ENVIRONMENTAL RISKS**
 - Health Economics
 - Environmental Remediation
 - Chemical Safety
 - Environmental Policy
 - Health Policy
- **AI-EMPOWERED ECO-ENVIRONMENTAL AND HEALTH PROTECTION**
 - AI Empowered Eco-Environmental Quality Prediction
 - Intelligent Toxicology and Risk Control
 - New Approach Methodologies for Chemicals Risk Assessment
 - Agents and Embodied Intelligence for Ecological, Environmental, and Health Protection
 - AI Empowered Pollution Control Technology
 - Big Data for Ecological, Environmental, and Health Protection



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