

The 5th **International Conference on Environmental Pollution, Restoration, and Management**

March 9-12, 2026, ICISE, Quy Nhon, Vietnam



Auburn University, SETAC AP, VAST, and ICISE Joint Conference



Conference theme: Environmental science-education-management: bridging Asia and the world

Introduction

The International Conference on Environmental Pollution, Restoration, and Management (ICEPORM) is a conference series first organized in Vietnam in 2010. The purpose of the conference is to gather environmental scientists and managers to discuss environmental problems, share experience, and develop collaborations towards environmental protection and management to support sustainability, especially in Southeast Asian countries that are under rapid development; however, facing environmental challenges. In many Southeast Asian countries, pollution caused by chemicals, nutrients, plastic use, and other industrial emissions is a big environmental problem. Fragmentation of natural habitat due to development of manufacturing and shelters for humans has resulted in biodiversity loss and altered ecosystem functioning and services. The rapid urbanization has resulted in changes in land use that directly affect water resources and ecosystems. Surface water and ground water in some countries have been contaminated with both organic and inorganic substances. In big cities and industrial areas, the air is polluted with chemicals emitted from industrial facilities. This directly affects public health. Global warming and climate change have affected coastal environments in most Southeast Asian countries. Many areas in the Mekong Delta are contaminated with sea salt due to seawater intrusion because of seawater rise and reduced water and sediment flows due to hydropower dams in the upper stream. This heavily affects rice cultivation in the Mekong Delta.

To resolve environmental problems, increasing public awareness and the effectiveness of environmental management are vitally important, especially in developing countries in need of improved and enhanced environmental management. As environmental problems, especially in some Asian countries, continue to increase, the need for global education and proper management of natural resources becomes imperative.

The goals of this 5th ICEPORM conference are to gather scientists from around the world in Quy Nhon to share research results and management experiences, discuss environmental issues, and continue to strengthen collaborations for research and education between scientists in developed and developing countries. The conference plans to meet and discuss with environmental managers of Vietnam at the meeting to develop collaborations to support management and sustainable development in Vietnam. The conference has an attendance and presentation of over 100 scientists from 20 countries around the world. The presentations cover a broad field of environmental science, including general environmental pollution, toxicology, public health, risk assessment, remediation, technology, management, and policy.



Tham Hoang (Chair)



Bryan Brooks (Co-Chair)



Hiroshi Yamamoto (Co-Chair)



Zuzanna Neziri (Co-Chair)

Conference Committee

Tham Hoang (Chair), Auburn University, USA

Bryan Brooks (Co-Chair), Baylor University, USA

Hiroshi Yamamoto (co-Chair), National Institute for Environmental Studies, President of SETAC Asia-Pacific, Japan

Zuzanna Neziri (co-Chair), SETAC AP Executive Director, Singapore

Koji Arizono, Kumamoto University, Japan

Damia Barcelo, Institute of Environmental Assessment and Water Research, IDAEA-CSIC, Spain

Joe Bisesi, University of Florida, USA

Andrew Barrick, Auburn University, USA

John Carriger, Carriger Analytics Group, USA

Minh Quang Bui, Center for High Technology Research and Development, Vietnam Academy of Science and Technology, Vietnam

Kyungho Choi, Seoul National University, South Korea

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Vincent Pettigrove, RMIT University, Australia

Rachel Pryor, National Oceanic and Atmospheric Administration, USA

Mark Robson, Rutgers University, USA

Daniel Schlenk, University of California Riverside, USA

Alena Sevcu, Technical University of Liberec, Czech Republic

Ross Smith, Hydrobiology Inc. Australia

Minh Tu, Hanoi University of Natural Sciences, Vietnam

Martin Tsui, Chinese University of Hong Kong, China

Adalberto Luis Val, INPA/MCTI, Brazil

Plenary speakers

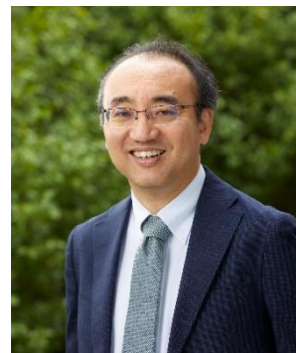
Emerging Environmental Contaminants: Comprehensive Risk Assessment and Asia-Pacific Collaboration

Hiroshi Yamamoto

National Institute for Environmental Studies, Japan

President of SETAC AP

Hiroshi Yamamoto received his M.S. from the Graduate School of Global Environmental Engineering at Kyoto University in 1997 and his Ph.D. in Environmental and Water Resources Engineering from the University of Texas at Austin in 2002. He served as an assistant professor and later an associate professor at Tokushima University between 2004 and 2016. He joined the National Institute for Environmental Studies (NIES) in April 2016, where he became Head of the Ecotoxicity Section in the Center for Health and Environmental Risk Research. He was promoted to Deputy Director in 2019 and became Director of the Division of Health and Environmental Risk in April 2024. His expertise lies in the fate and ecological risk assessment of micropollutants such as pharmaceuticals, pesticides, surfactants, and other industrial chemicals, and more recently, plastics. He is also a visiting professor at the Graduate School of Frontier Sciences, The University of Tokyo. He has contributed to the international standardization of ecotoxicity testing methods and hazard assessment under the Organization for Economic Co-operation and Development (OECD). He has also been involved in chemical environmental risk assessment in Japan for more than 20 years, mostly under the Ministry of the Environment. He has served as a board member of SETAC Asia-Pacific for more than four years and became its President in 2024. He has also been a Vice President of SETAC Japan since 2022.



Mapping Resistance in Vietnam: Wastewater Resistomes Along Socio-Economic and Infrastructure Gradients

Sean Norman

University of South Carolina, USA

Dr. R. Sean Norman is an Associate Professor in the Department of Environmental Health Sciences at the Arnold School of Public Health, University of South Carolina. Trained as a microbiologist, Dr. Norman leads an interdisciplinary research program focused on understanding how microorganisms influence ecosystem function and human health across coupled socio-ecological systems. His laboratory specializes in molecular and genomic approaches, including high-throughput metagenomic and genomic DNA sequencing, to support wastewater-based surveillance for the detection, modeling, and forecasting of infectious disease outbreaks. A major focus of his work is the environmental dissemination of antibiotic resistance, particularly the occurrence and spatial distribution of antibiotic resistance genes across wastewater infrastructure, urban and rural communities, and diverse socio-economic settings. Dr. Norman's research has contributed to advancing wastewater-based epidemiology as a public health tool and to improving understanding of how human activity, infrastructure, and environmental pathways shape antibiotic resistance locally and globally. His work has been supported by the U.S. Centers for Disease Control and Prevention, the National Science Foundation, and the National Institutes of Health, and has been published in journals such as *Environmental Science & Technology*, *ES&T Water*, and *Science of the Total Environment*.



Deforestation challenges at cop30, Belem, Brazil.

Charles CC Lee

University of Newcastle, Australia

Dr Lee has more than 30 years' experience in environmental research, teaching and consulting in North America, and Asia-Pacific countries. His experience encompasses consulting at one of the top environmental consulting firms in the USA, R&D at the Agency for Science Technology and Research (A*Star, Singapore), and academic teaching and research at the University of Newcastle (Australia). He is an Associate Professor, Director of the Centre for Sustainable Development, Program Coordinator for the Master of Environmental Management and Sustainability, and Program Convenor for the Bachelor of Environmental and Occupational Health & Safety program. His research and training areas include environmental sustainability, restoration of degraded land (mining, agriculture and peatlands), environmental health, and alignment with UN SDGs.



Acknowledgement

The conference would like to thank all participants from 20 countries around the world for attending the conference. Their attendance and presentation contributed to the success of the meeting. The conference is grateful to the committee for their time and efforts to organize the meeting. The sponsorship and support of the following organizations are greatly acknowledged. Their sponsorship helped support plenary speakers and students and scientists from developing countries to attend the conference.



Rencontres du Vietnam



Society of
Environmental
Toxicology and
Chemistry in Asia-
Pacific Region



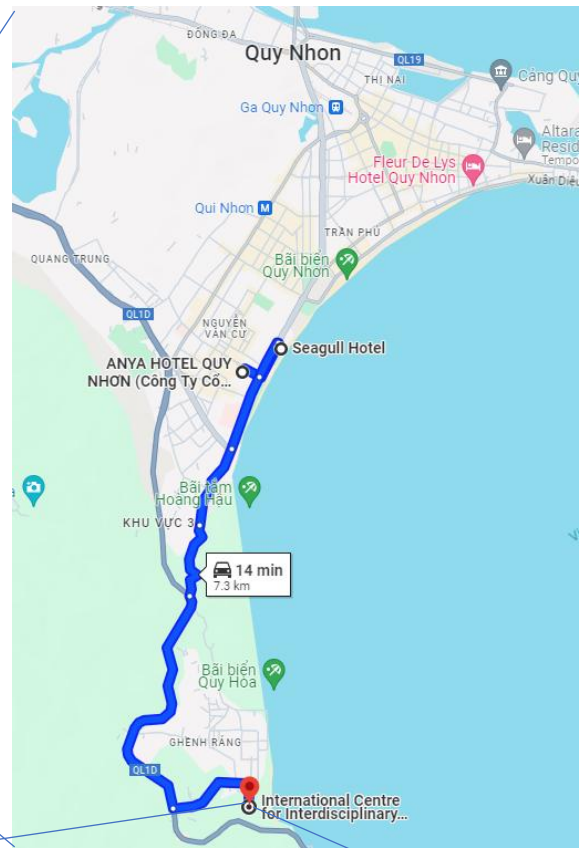
International Centre for
Interdisciplinary Science
and Education



Meeting Center and hotels

The meeting will be at the International Center for Interdisciplinary Science and Education (ICISE). It is about 7.5 km from Seagull Hotel. Transportation between Seagull Hotel and ICISE will be provided daily. Shuttle buses will take conference participants from Seagull Hotel to ICISE at 7:45 and back to Seagull Hotel after the meeting.

Meeting Room 1 is on the first floor of the ICISE building. Meeting Rooms 2 and 3 are on the second floor of the ICISE building.



MEETING PROGRAM

TIME	SUNDAY (MARCH 8)
1:00	Registration checks in (Seagull Hotel)
1:30	Shuttle bus takes short course participants from Seagull Hotel to ICISE
2:00 - 5:00	Short course 1 (Room 2): Environmental risk assessment (Prof. Bryan Brooks, Baylor University, USA)
2:00 - 5:00	Short course 2 (Room 3): Analysis of microplastics in water (Dr. Andrew Barrick, Auburn University, USA)
5:05	Shuttle bus takes short course participants back to Seagull Hotel
6:00	Informal gathering at Seagull Hotel, cocktails will be provided

TIME	MONDAY (MARCH 9)	
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE	
8:00	Registration check-in, poster setup	
	Room 1 (1 st floor)	
8:30	Opening Welcome speech Speech of the SETAC AP Speech of ICISE/VAST Speech of the People Committee of Gia Lai Province	
	Plenary presentation: Emerging Environmental Contaminants: Comprehensive Risk Assessment and Asia-Pacific Collaboration <i>Prof. Hiroshi Yamamoto, President of SETAC AP</i>	
9:30	Break, group photo	
	Room 1 (1 st floor)	Room 2 (2 nd floor)
	Session 1: Metal bioavailability and toxicity to organisms-I <i>Chairs: Dr. Delia Shelton, Dr. Tham Hoang</i>	Session 2: Microplastics in the environment and uptake by aquatic organisms <i>Chairs: Dr. Vera Slaveykova; Dr. Charles Lee</i>
10:10	Sensitivity of Juvenile Endemic Alabama Prosobranch Gastropod Species to Nickel, Potassium and Chloride Exposure <i>Sean Parham</i>	Advancing Microplastic Research and Monitoring: Building a Portable Prototype Sensor for Identification of Microplastics in Various Field Settings <i>Anthony Vedral</i>

10:30	The Effects of Water Quality on Copper Toxicity to the Marsh Ramshorn Snail <i>Ellis Nabi</i>	Microplastics Assessment in the Lower St. Johns River, in Jacksonville, Florida <i>Gretchen Bielmyer-Fraser</i>
10:50	Hotspots and Flux of Mercury and Methylation in Coastal Wetland <i>Shaoyi Wang</i>	Discovery of microplastics in the Alabama River: distributions, transport and loads, sources, and relative comparison with world rivers <i>Safeer Islam Hashmi</i>
11:10	Effect of Mercury and Antibiotics Co-occurrence on Dissolved Mercury, Dissolved Organic Matter, and Mercury Methylation Potential in Aquatic Environments <i>Kendric Aaron</i>	Small Size, Big Problem: Microplastics in our Fresh water and Terrestrial Systems in Southeast Asia <i>Melissa Lenczewski</i>
11:30	Cadmium Ripples Through Generations: Transgenerational Effects of Chronic Dietary Cadmium in Zebrafish <i>Delia Shelton</i>	Microplastic Contamination in Aquatic Organisms from Plastic Recycling Craft Villages in Northern Vietnam <i>Thao Nguyen</i>
12:00	Lunch	Lunch
	Session 3: Metal bioavailability and toxicity to organisms-II <i>Dr. Martin Tsui, Dr. Hiroshi Yamamoto</i>	Session 4: Fate and effects of organic pollutants <i>Dr. Kyungho Choi, Dr. Cong Nguyen</i>
1:30	Influence of water quality and organism age on copper toxicity to largemouth bass (<i>Micropterus salmoides</i>) <i>Pabasari Mallikarachchi</i>	Chronic Environmentally Relevant Exposure to Pharmaceutical and Personal Care Product Mixtures Induces Tissue Accumulation and Endocrine Disruption in Zebrafish <i>Naima Hamid</i>
1:50	Assessing the Impact of Green-Synthesized Nano silver on Freshwater Copepod Populations <i>Thi Hong Pham</i>	Occurrence and Human Health Risk Assessment of PFAS and Legacy Organic Pollutants in Commercial Marine Fish from the United Arab Emirates <i>Fatin Samara</i>
2:10	Roles of biofilms in mercury transformations in aquatic ecosystems <i>Ganxing Liu</i>	Thyroid Disruption by Organic UV filters and their Binary Mixtures in Zebrafish and its Public Health Implications <i>Kyungho Choi</i>
2:30	Methylmercury Biomagnification in Subtropical Forested Ecosystems <i>Long Hei Cheng</i>	Effects of applying insecticide containing quinalphos and fenobucarb for rice on cholinesterase of fingerling snakehead fish (<i>Channa striata</i>) in the Mekong delta <i>Cong Nguyen</i>
2:50	Mercury pollution studies in Southeast Asia <i>Martin Tsui</i>	Investigating Alternative Treatment Strategies for Harmful Algal Blooms <i>Andrew Barrick</i>
3:10	Coffee break and poster presentations	
5:10	Leave ICISE for Seagull Hotel	
	Dinner on your own	

TIME		TUESDAY (MARCH 10)	
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE		
	Room 1 (1 st floor)		
8:00	Plenary presentation: Mapping Resistance in Vietnam: Wastewater Resistomes Along Socio-Economic and Infrastructure Gradients <i>Prof. Sean Norman, University of South Carolina, USA</i>		
	Room 1 (1 st floor)		Room 2 (2 nd floor)
	Session 5: Contamination removal and remediation technology <i>Dr. Benny Chefetz, Dr. Minh Tu</i>		Session 6: Effects of microplastics on aquatic organisms <i>Dr. Andrew Barrick, Dr. Nhung Nguyen</i>
8:50	Agricultural Water Reuse: The Good, the Bad, and the Ugly <i>Benny Chefetz</i>		Challenges in Microplastic Hazard Assessment <i>Andrew Barrick</i>
9:10	Pretreated biochar to mitigate methylmercury formation in coastal sediments <i>Zhengchen Yu</i>		From Nanobeads to Reality: How Human Microglia Respond to Real-World Micro- and Nanoplastics. <i>Priscila Falagan Lotsch</i>
9:30	Synthesis of Highly Crystalline Zinc Oxide Nanowire Array on Flexible Substrate for Effective Degradation of Emerging Contaminants <i>Surajit Ghosh</i>		Cytotoxicity of Textile-Derived Microfibers in Fish Gill Cells Following OECD-TG249 Guideline <i>Beverly Thomas</i>
9:50	Process Intensification in Membrane-Based Systems for Resource-Efficient Wastewater Treatment and Bioethanol Separation <i>Md Oayes Midda</i>		Beyond Microbeads: Toxicity of Cryomilled Consumer Plastic Microplastics in Fathead Minnow Larvae <i>Alisha Janiga-MacNelly</i>
10:10	Break		Break
10:50	Assessment of antibiotic removal efficiency of hospital wastewater treatment technologies and associated ecological risks in receiving surface waters in Vietnam <i>Minh Bui</i>		Effects of chronic exposure to environmentally realistic microplastics on <i>Daphnia magna</i> : importance of particle size and morphology and implications for risk assessments <i>Safeerul Islam Hashmi</i>
11:00	Influence of Cotton Stalk Biochar Amendment on Atrazine Sorption and Groundwater Leaching Potential <i>Prasanta Majee</i>		Entanglement versus Ingestion: Unravelling Micro- and Nano-Plastic Impacts in Freshwater Zooplankton <i>Vera Slaveykova</i>
11:20	Isolation and Characterization of Halotolerant IAA- and EPS-Producing Plant Growth-Promoting Bacteria with Potential for Saline Soil Rehabilitation <i>Hong Pham Thi</i>		Multi-layered analysis of neurotoxicity in zebrafish exposed to low concentrations of tire-derived chemicals <i>Ki-tae Kim</i>
11:40			Microplastics as Vectors for Antibiotic Resistance Genes in Urban Rivers: A Case Study from Hanoi, Vietnam <i>Huong Ngo</i>
12:00	Lunch		
1:30	Visit Nhon Ly Island and observation of coral reefs		
7:00-9:00	Conference gala dinner in ICISE		

TIME		WEDNESDAY (MARCH 11)	
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE		
	Room 1 (1 st floor)		
8:00	Plenary presentation: Deforestation challenges at cop30, Belem, Brazil <i>Prof. Charles CC Lee, University of Newcastle, Australia</i>		
	Room 1 (1 st floor)	Room 2 (2 nd floor)	
	Session 7: Agriculture activities and environment: Chemical fate and impacts <i>Dr. Latif Kalin, Dr. Vin Pettigrove</i>	Session 8: Air pollution, analysis technique, and risk assessment <i>Dr. Bryan Brooks, Dr. Laura Langan</i>	
8:50	The efficacy of the copper bioavailability approach for controlling harmful algal blooms: laboratory to aquaculture pond system <i>Md. Sayem Ahmed</i>	Comprehensive Chemical Speciation and PMF Source Apportionment of PM2.5 in Hanoi for 2022–2023 <i>Huong Le</i>	
9:10	Influence of Water Quality on Copper Toxicity to Channel Catfish (<i>Ictalurus punctatus</i>) <i>John Ikyoive</i>	Urban Air Pollution in Indian Megacities: Trends and Climate Linkages <i>Prashant Kumar</i>	
9:30	Acute and chronic toxicity of ammonia on the endemic freshwater mussel <i>Cambarunio nebulosus</i> (Alabama Rainbow) <i>Ellis Nabi</i>	Enhancing the Risk Assessment of Per- and Polyfluoroalkyl Substances (PFASs) through Sorption Characterization Using Online Soil Column Chromatography Coupled with Mass Spectrometry <i>T. Ngoc Anh Do</i>	
9:50	Simulating Pesticide Fate and Transport in Non-Floodplain Wetlands <i>Latif Kalin</i>	Nickel oxide decorated carbon fiber nanocomposite: A robust electrocatalyst for the detection of vanillin food additive Janet Joshiba Ganesan	
10:10	Break	Break	
10:40	Surface Water Quality Dynamics in the Headwaters of the Mekong Delta: A Multivariate Statistical Approach for Pollution Source Apportionment and Monitoring Network Optimization <i>Xuan Lan Nguyen</i>	Occurrence of Dioxins, PCBs, and PAHs in Fly Ash from Metal Recycling Craft Villages in Northern Vietnam and Implications for Human and Environmental Health <i>Hung Bui</i>	
11:00	Integrated LC–MS/MS and Oxidative Workflows for Detecting Volatile and Overlooked PFAS <i>Tae-Kyoung Kim</i>	Initial determination of the chlorinated paraffin sources released into the environment in Vietnam <i>Minh Tu</i>	
11:20	Addressing the environmental impact of chemicals of concern: an example of attempts to address bifenthrin pollution to protect aquatic ecosystems in Melbourne, Australia <i>Vin Pettigrove</i>	Application, refinement and development of new approach methodologies to meet current needs to reduce animal testing: a focus on the aquatic environment <i>Laura Langan</i>	
11:40	Group discussion	Group discussion	
12:00	Lunch	Lunch	

1:30	Session 9: Effects of chemical pollutants: microbiology perspective <i>Dr. Alena Sevcu, Dr. Nhung Nguyen</i>	Session 10: Panel discussion: Creating an Interface amid Technology, Economy, Environment, and Well-being <i>Dr. Rob Krueger, Dr Patricio Langa</i>
1:50	Actionable data for notifiable diseases using wastewater-based surveillance: a case study with measles <i>Laura Langan</i>	The panel is open to all conference participants
2:10	Toxicogenetic Interactions between Microplastics and Selected Heavy Metals Alter Gut Microbiota and Reproductive Development in Marine Medaka (Oryzias melastigma). <i>Naima Hamid</i>	
2:30	Relative sensitivity of cyanobacteria to copper exposure <i>Md. Sayem Hamed</i>	
2:50	Antibiotic resistance genes are more abundant in biofilms formed on textile microplastics than on natural cotton in freshwater <i>Alena Sevcu</i>	
3:10	Break	
	Session 11: Graduate Programs and Scholarship Opportunities	Session 12: Panel discussion: Microplastic research and collaboration <i>Dr. Andrew Barrick, Dr. Naima Hamid</i>
3:40	Auburn University, USA <i>Latif Kalin</i>	The panel is open to all conference participants
3:50	Seoul National University, South Korea <i>Kyungho Choi</i>	
4:00	Baylor University, USA <i>Bryan Brooks</i>	
4:10	Worcester Polytechnic Institute, USA <i>Rob Krueger</i>	
4:20	University of Miami, USA <i>Delia Shelton</i>	
4:30	University of South Carolina, USA <i>Sean Norman</i>	
4:40	University of Geneva, Switzerland <i>Vera Slaveykova</i>	
5:00	Visit the Explorascience Space Center of Binh Dinh Province	
5:30	Leave ICISE for Seagull Hotel	

TIME	THURSDAY (MARCH 12)
8:00	Shuttle buses take conference participants from Seagull Hotel to ICISE
	Room 1 (1 st floor)
	Session 13: Environmental risk assessment and management <i>Chairs: Dr. Sandra Knuteson</i>
8:30	Waste sorting among UAE students: what are the main barriers? Preliminary results <i>Marie Waxin</i>
8:50	Counterfactual analysis in risk assessment: Possibilities and promise for causal attribution <i>John Carriger</i>
9:10	Bioeffects-Based Approach to Evaluate Attenuation of Stormwater Toxicity by Best Management Practices <i>Dalma Martinović</i>
9:30	Current Status and Emerging Strategies for Drinking Water Safety Management in South Korea <i>Tae-Yong Jeong</i>
9:50	Delivering effective EIAs: perspectives of private-sector consultants from the UAE <i>Sandra Knuteson</i>
10:10	Break
10:30	Closing and student presentation awards
11:00	Lunch

Poster Presentation

MONDAY (MARCH 9, 3:10 - 5:10 PM)

Number	Title	Presenter
1	Assessment of Health Impacts of Air Pollution Caused by Open Burning of Rice Straw in Several Provinces and Cities of Northern Vietnam	Tung Dao
2	Reducing odor pollution by bio-filter technology on sugar cane bagass filter bed	Thanh Nguyen
3	Total Mercury Burdens in Bridled Terns (<i>Onychoprion anaethetus</i>) Breeding in the Northern South China Sea	Chun Ting Chung
4	Influence of natural and synthetic textile fibers on gut microbes of invasive and native freshwater snails	Nhung Nguyen
5	Environmental Weathering of Polyethylene Microbeads Controls PFAS Interactions in Aquatic Sediments	Soleil Sklencar
6	Assessment of microplastics in the aquatic environment: importance of sampling techniques	Safeer Hashmi
7	Application of different regulatory assays and metabarcoding for measuring microbial growth potential and microbial communities using drinking water pipe products in South Korea	Tae-Yong Jeong
8	Three-Years-Long Monitoring and New Safety Criteria Development for Toluene, Ethylbenzen, Xylene Eluted from Drinking-Water-Contact Products in South Korea	Tae-Yong Jeong
9	Shallow Lake Remediation Practices on Tropical and Temperate Climates Towards Sustainability	Antonio Cavalcante Pereira
10	Effects of Polyethylene Terephthalate Co-processing with Orange Peel on the Formation of Peroxydisulfate Activators for Acetaminophen Degradation	Seok-Oh Ko
11	Microplastics Removal Potentials via Electrocoagulation Coupled with Dissolved Air Flotation	Tung Dang
12	Automated Flux Chamber for Quantifying Greenhouse Gas Emissions from Nhieu Loc–Thi Nghe Urban Canal Surface Waters	Tung Dang
13	Persistent toxic substances (PTS) associated with informal waste processing activities in northern Vietnam: Environmental analytical chemistry insights and management perspectives	Anh Hoang
14	Characterization of polycyclic aromatic hydrocarbons (PAHs) in source-related materials in Vietnam: Analytical chemistry and implications for source apportionment	Anh Hoang
15	Sustainable Biofuel Production from Eddoe (<i>Colocasia esculenta</i> var <i>antiquorum</i>) Tubers via Simultaneous Liquefaction, Saccharification, and Fermentation (SLSF)	Ronaldo Reyes, Alvin T. Rosare
16	Reproductive toxicity of tributyl phosphate (TBP) and its underlying mechanisms in zebrafish and fathead minnows	Ba Reum Kwon
17	Developing an Approach to Examine Hazards of Ingredients in Consumer Products: Application to cleaning products with and without green Labelling	Kiana Porter
18	Pharmaceuticals in Estuarine Systems Across a Gradient of Effluent Contributions to Base Flow: Influences of Population Socioeconomics	Adam Wronski
19	Seasonal Occurrence and Water Quality Hazards of Per- and Polyfluoroalkyl Substances in Estuarine Systems across a Gradient of Effluent Contributions to Base Flow	Hyeong Young Choi
20	Stability of Viral RNA in Wastewater: Freeze-Thaw Effects on RSV and Influenza for Wastewater-based Epidemiology	Charlotte Nwagwu

21	Microplastics as Toxic Metal Carriers in Vietnam's Red River Delta: A Hidden Threat to Aquatic Ecosystems and Human Health	Huong Ngo
22	Profiling the Surface Water Bacterial Communities of Riverine Mangroves of Placer, Surigao del Norte Using 16S rRNA eDNA Metabarcoding	Khenie Patagan
23	Paper Microfluidics for Detection of Heavy Metals in Water	Pooja Jangir
24	FL-MPA: An Open-Source Fluorescence Imaging Platform for Rapid Detection, Classification, and Size Estimation of Microplastics in Environmental Samples	Cao Son