

The 4th
**International Conference on
Environmental Pollution,
Restoration, and Management**

March 3-7, 2024, ICISE, Quy Nhon, Vietnam

Conference booklet



*Auburn University, SETAC AP, International Center for
Interdisciplinary Science and Education Joint Conference*



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

Introduction

The increase in demand for natural resources of the continuously growing human population has caused environmental consequences. The development of industry to supply human needs has increased pressure on the environment, especially in developing countries, in which natural resources are rapidly exploited for industrial and economic development. As a result, the world is facing many environmental problems. In developing countries, such as in Southeast Asia, environmental problems are increasing. Pollution caused by chemicals, nutrients, plastic use, and other industrial emissions is a big concern (Leung et al. 2020). 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, especially in Southeast Asia, has resulted in changes in land use that directly affect water resources and ecosystems. Surface water and ground water in some Asian 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.

This meeting is proposed to be the fourth of a decade-spanning series of meetings on environmental pollution, restoration, and management in Vietnam. The previous conferences were highly successful with the encouragement and attendance of more than 200 scientists and managers from academia, industry, and governmental institutions attending each and representation from over 40 different countries. There were more than 150 presentations at each conference that covered different areas of environmental science, including general environmental pollution, toxicology, public health, risk assessment, remediation, technology, management and policy, environmental economics. The conferences have initiated collaborations for research and education between scientists around the world. Many small, focused training workshops have been organized after the conferences to further exchange experiences and knowledge with scientists and managers in Vietnam to support environmental management and regulation in Vietnam.

The goals of this 4th 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. We expect to meet and discuss with environmental managers of Vietnam at the meeting to develop collaborations to support management and sustainable development in Vietnam.



Tham Hoang (Chair)



Bryan Brooks (Co-Chair)



Ross Smith (Co-Chair)

Conference Committee

Tham Hoang (Chair), Auburn University, USA
Bryan Brooks (Co-Chair), Baylor University, USA
Ross Smith (Co-Chair), Hydrobiology, SETAC AP, Australia
Koji Arizono, Kumamoto University, Japan
Damia Barcelo, Catalan Institute for Water Research, Spain
Joe Bisesi, University of Florida, USA
Chuleemas Boonthai Iwai, Khon Kaen University, Thailand
John Carriger, USEPA, USA
Fernando Carvalho, Nuclear and Technology Institute, Portugal
Nhan Dang, Institute of Nuclear Science and Technology, Vietnam
Jeffrey Gallagher, USEPA, USA
Latif Kalin, Auburn University, USA
Thorsten Knappenberger, Auburn University, USA
Sandra Knuteson, American University of Sharjah, Sharjah United Arab Emirates
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Hue Nguyen, University of Hawaii at Manoa, USA
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Son Tran, Quy Nhon University/ICISE, Vietnam
Martin Tsui, Chinese University of Hong Kong, China
Minh Tu, Hanoi University of Natural Sciences, Vietnam
Adalberto Luis Val, INPA/MCTI, Brazil
Kevin Wang, Auburn University, USA
Van Tran, ICISE, Vietnam (Conference advisor)

Plenary Speakers

Prof. Kyungho Choi, Seoul National University, Seoul, Korea

Dr. Kyungho Choi is an environmental health professor at Graduate School of Public Health, Seoul National University. He was trained in veterinary medicine (1993 DVM), and environmental health sciences (1995 MPH 1998 PhD). His research interests are focused on the environmental health of endocrine disrupting chemicals including consumer chemicals. He has published ~250 research articles in peer-reviewed journals in areas of environmental toxicology, exposure-risk assessment, and environmental epidemiology. He serves in editorial boards of several international journals including Environ Int (associate editor), Environ Toxicol Chem, Int J Hyg Environ Health, Environ Manag, Environ Sci Technol Let, Environ & Health. He is the director of Brain Korea Center for Sustainable and Healthy Environment (BK4SHE), SNU, and a vice president of Korean Society of Environmental Health.



Dr. Kathryn Gallagher, US Environmental Protection Agency, USA

Kathryn Gallagher is the Chief for the Ecological Risk Assessment Branch in EPA's Office of Water, leading a team of scientists in developing national Water Quality Criteria for the protection of aquatic life and aquatic-dependent wildlife, and in updating criteria derivation methods to reflect the current state-of-the-science.

EPA documents authored under her leadership include *A Summary of the Effects of Plastics Pollution on Aquatic Life and Aquatic-Dependent Wildlife*; *EPA's Framework for Human Health Risk Assessment to Inform Decision Making*; *EPA's Using Probabilistic Methods to Enhance the Role of Risk Analysis in Decision-Making*; the *EPA Nanotechnology White Paper*, and several National Ambient Water Quality Criteria to Protect Aquatic Life, including criteria for ammonia, selenium, cadmium, aluminum and draft PFOA and PFOS criteria. She has also authored a number of peer-reviewed journal articles.



She previously served as the Chief of the Science Support Branch in the Office of Pollution Prevention in Toxics, the Executive Director of the Risk Assessment Forum, Team Leader for the Science and Technology Policy Staff, Toxics Coordinator for the Chesapeake Bay Program, and as an ecological risk assessor in the Office of Pesticide Programs. Kathryn earned her Ph.D. in Marine Science at the Virginia Institute of Marine Science, where her research was focused on the occurrence and biochemical effects of organic chemicals in estuarine systems. Her postdoctoral research fellowship was at the National Institute of Environmental Health Sciences where she researched comparative molecular toxicology, examining the effects of mutagens on fish and mice containing the same gene.

Dr. Hoang Van THUC, Department of Environmental Pollution Control Department, Ministry of Natural Resources and Environment, Viet Nam

Dr. Hoang Van Thuc is the Director General of the Department of Pollution Control Department, MONRE which has the function of advising and assisting the Minister in performing the state management of pollution source control; waste and scrap management; environmental quality management; environmental treatment, improvement and restoration; preventing, responding to and overcoming the environmental incidents; environmental monitoring; management of persistent pollutants; certification or recognition of environmentally friendly products and services; organizing the performance of public services within the scope of state management of the Department under the provisions of the law.



With nearly 20 years of working in environmental management in Viet Nam, Dr. Thuc has a wealth of experience in developing National environmental technical regulations, environmental standards, technical process regulations, and warnings on environmental pollution nationwide. These regulations in Viet Nam have been legislated and amended over many periods. Currently, these regulations are continuing to be reviewed and edited to suit practical conditions and development needs in Viet Nam.

Dr Jennifer Stauber B.Sc, M.Sc, PhD, GAICD, FTSE, FAA, SETAC Fellow

Dr Jenny Stauber is a Chief Research Scientist at CSIRO Environment, Sydney, Australia and Adjunct Professor at La Trobe University, Victoria, Australia. She is a Fellow of the Australian Academy of Science and the Australian Academy of Technology and Engineering. She was formerly a Visiting Professor at the Environmental Research Institute, South China Normal University, Guangzhou, and at the Department of Biology and Chemistry, City University, Hong Kong.



Jenny is an aquatic ecotoxicologist with expertise in the bioavailability and toxicity of contaminants in marine and freshwater systems under climate change, environmental risk assessment including deep sea mining and deep-sea tailings placement, and the derivation of toxicant water and sediment quality guidelines. Jenny chairs and serves as expert ecotoxicologist on many national and international advisory committees including the Ecotoxicity Technical Advisory Panel for the International Metals Associations; Independent Expert Committee on Coal Seam Gas and Large Coal Mining Development; Reef Water Quality Independent Science Panel, and Australia's Industrial Chemicals Advisory Committee. She was a previous recipient of Australia's Land and Water Eureka Prize and has authored over 400 journal papers, book chapters and reports.

Prof. Elsie Sunderland, Harvard University, USA

Professor Elsie Sunderland is the Fred Kavli Professor of Environmental Chemistry and Professor of Earth and Planetary Sciences at Harvard University where she leads the Biogeochemistry of Global Contaminants Research Group. Her research aims to better understand how chemical pollutants interact with natural ecosystems and affect life. Her group quantitatively analyzes the entire exposure pathway for pollutants to identify key processes that have a large influence on their accumulation in living organisms. Her research combines environmental measurements with statistical and mechanistic simulation models to project chemical levels over space and time. This integrated approach allows better understanding of how human activities and climate change are affecting human and ecological health risks associated with exposure to environmental toxicants.



Prior to joining the Harvard Faculty, Prof. Sunderland spent five years at the headquarters for the U.S. Environmental Protection Agency working on regulatory impact assessments and developing guidance on how to best use environmental models to inform regulatory decisions. Over the past 20 years, she has collaborated extensively with indigenous groups, NGOs, and governmental organizations. Her work has informed strategies for managing risks associated with environmental chemical exposures from energy infrastructure such as coal-fired power plants and hydroelectric dams, and federal and international regulatory efforts for mercury and per- and polyfluoroalkyl substances (PFAS).

Professor Sunderland has mentored > 40 graduate students and postdoctoral fellows and is a Clarivate Web of Science Highly Cited Researcher. She is the Editor-in-Chief for the Royal Society of Chemistry journal Environmental Science: Processes and Impacts and is a member of the editorial advisory boards for several journals including Environmental Science & Technology and ACS Environmental Au. Prof. Sunderland received her B.Sc. from McGill University and Ph.D. from Simon Fraser University in Canada. Outside of science, she is interested in dogs (particularly if they have beards), running, being a soccer/sailing mom for her two kids, and coastal conservation.

Acknowledgement

The conference would like to thank all participants from 15 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. Their time and efforts helped organize the meeting successfully. 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.

METAL ENVIRONMENTAL RESEARCH ASSOCIATION



International Copper
Association

Nickel Producer
Environmental Research
Association

International Zinc
Association



Rencontres du Vietnam



Society of
Environmental
Toxicology and
Chemistry in Asia-
Pacific Region



International Centre for
Interdisciplinary Science
and Education



MEETING PROGRAM

TIME	SUNDAY (MARCH 3)
1:00	Registration checks in (Seagull Hotel)
1:30	Shuttle bus take short course participants from Seagull Hotel to ICISE
2:00 - 6:00	Short course 1 (Room 2): Environmental risk assessment (Prof. Bryan Brooks, Baylor University, USA)
3:00 - 6:00	Short course 2 (Room 3): Analysis of microplastics in water (Prof. Damia Barcelo, Catalan Institute for Water Research, Spain)
2:00 - 4:00	Short course 3 (Room 4, virtual): Human health risk assessment (Prof. Mark Robson, Rutgers University)
6:05	Shuttle bus takes short course participants back to Seagull Hotel
6:30	Welcome dinner (Sao Mai Restaurant, Seagull Hotel)

TIME	MONDAY (MARCH 4)
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE
8:00	Registration checks in, poster setup
	Room 1 (1st floor)
8:30	Opening Welcome speech: <i>Prof. Tham Hoang, Auburn University</i> Speech of the Ministry of Natural Resources and Environment of Vietnam: <i>Dr. Le Cong Thanh, Deputy Minister, MONRE</i> Speech of the People Committee of Binh Dinh Province Speech of the Ambassador of France: <i>Mr. Olivier Brochet, French Embassy in Vietnam</i> Speech of USAID: <i>Mr. Duong Nguyen, Office of Climate Change, Energy and Environment, USAID</i>
	Award ceremony (Plastic waste reduction project)
9:30	Break, group photo
10:00	Plenary presentation: Environmental pollution control in Vietnam: Status and Solution: <i>Dr. Hoang Van Thuc, Director General, Pollution Control Department, MONRE</i>
10:40	Plenary presentation: Aquatic Life Criteria Development at the US EPA for Metals and Other Toxic: <i>Dr. Kathryn Gallagher, USEPA</i>
11:20	Break for committee meeting with the Ministry of Natural Resources and Environment of Vietnam
12:00	Lunch

	Room 1 (1 st floor)	Room 2 (2 nd floor)
	Session 1: Microplastic pollution and impacts on the environment <i>Chairs: Dr. Nhung Nguyen, Dr. Andrew Barrick</i>	Session 2: Impacts of land use change on the environment and sustainable development need <i>Chairs: Latif Kalin, Dr. Bryan Brooks</i>
1:30	Consumption of environmental realistic microplastics by the Florida Apple Snail (<i>Pomacea paludosa</i>): influence of time, age, and plastic types <i>Erin Taggart</i>	Monitoring Lake Thermal Structure Using Coupled Streamflow-Water Temperature Models and Remote Sensing for U.S. Midwestern Inland Waters <i>Nhu Pham</i>
1:50	Study on Residues of Microplastics in Sediments of Dong Nai River and its Impact on the Ecological Environment <i>Luu Tran</i>	Growing Greener: Innovations in Climate-Resilient Farming Practices <i>Thorsten Knappenberger</i>
2:10	Plastic debris abundance and aquatic animal microplastic accumulation in Sai Gon and Dong Nai rivers <i>Bao-Son Trinh</i>	Understanding and improving the domestic solid waste management system based on community-led toward green tourism and sustainable development in Thieng Lieng Island <i>Toan Pham</i>
2:30	Toxicokinetic and behavioral effects of environmentally realistic microplastics <i>Andrew Barrick</i>	Proposing circular economy solutions for sustainable economics in cold-rolling steel production: a case study of pickling process <i>Huyen Do</i>
2:50	Break	Break
3:10	Micro-bioplastics enrich the transfer rate of antibiotic resistance genes in environmental bacteria <i>Nhung Nguyen</i>	A new integrated MCDM model for optimal site selection in sustainable solar power farm development: a case study of the Mekong Delta, Vietnam <i>Truong Hoang</i>
3:30	Distribution of some heavy metals and microplastics in the surface sediment along Thai Binh coastal <i>Hien Do</i>	Impact of Land Use/Cover and Human Activities on Water Quality/Quantity Nexus: A Southern US Perspective <i>Latif Kalin</i>
4:00	Poster presentation	
5:30	Leave ICISE for Seagull Hotel	
	Dinner on your own	

TIME		TUESDAY (MARCH 5)	
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE		
	Room 1 (1 st floor)		
8:30	Plenary presentation: How much do we understand about the ocean’s role as the terminal sink for anthropogenic pollution? <i>Prof. Elsie Sunderland of Harvard University, USA</i>		
	Room 1 (1 st floor)		Room 2 (2 nd floor)
	Session 3: Metal contamination and effects on living organisms <i>Chairs: Dr. Ross Smith, Dr. Jenny Stauber</i>		Session 4: Environmental remediation and technology <i>Chairs: Dr. Hue Nguyen, Dr. Alena Sevcu</i>
9:20	Variations of methylmercury in a mangrove wetland sediments: insights from subtropical ecosystems in Hong Kong <i>Chaoyi Wang</i>		Soil Health Improvement with Biochar: A Review <i>Hue Nguyen</i>
9:40	Biomagnification of mercury and the risk characterization of shorebirds in a subtropical wetland ecosystem in Hong Kong, China <i>Tsun Hung Cheung</i>		Potential of Fungi <i>Pycnoporus sanguineus</i> (NUOL-PKK02) in Bioremediation of Pesticide Contaminated Soil <i>Nuttaya Xasydavong</i>
10:00	Break		Break
10:20	Accumulation of mercury in rice plants collected from paddy field around Nam Son landfill, Hanoi, Vietnam <i>Quynh Nguyen</i>		Developing a synergistic approach for bioremediation of aged Dioxin contaminated soils in Vietnam <i>Thi Xa Le</i>
10:40	Influences of microplastics on mercury cycling in forested ecosystems <i>Ming Jin Yau</i>		Wetland: An effective system for clean-up of hexachlorocyclohexane polluted creek <i>Alena Sevcu</i>
11:00	Sensitivity of Alabama Endemic Snail Species to Nickel Exposure <i>Andrew Barrick</i>		Strategy for former heavy metals mine bioremediation and critical element exploitation using microorganisms <i>Veronika Hlavackova</i>
11:20	Chronic Toxicity of Binary-Metal Mixtures of Copper, Cadmium, and Chromium to <i>Daphnia magna</i> <i>Lauren Hou</i>		Study on the removal efficiency of synthetic wastewater containing 3,4-Dichlorophenol in a Sponge-Membrane Bioreactor <i>Nhu Nguyet Phan</i>
11:40	Exploring Low-Dose Effects of Gold Nanoparticles on Mitochondrial Function and Cellular Health: Implications for Biomedical Applications and Nanotoxicity <i>Priscila Falagan Lotsch</i>		Floating treatment wetlands for diffuse pollution remediation <i>Thanh Bui</i>
12:00	Lunch		

TIME		TUESDAY (MARCH 5)	
	Room 1 (1 st floor)	Room 2 (2 nd floor)	
	Session 5: Environmental monitoring on water, soil, air, and biota <i>Chairs: Dr. Minh Tu, Dr. Damia Barcelo</i>	Session 6: Ecological and health risk assessments <i>Chairs: Dr. Fernando Carvalho, Dr. Nhan Dang</i>	
1:30	Metals in the Sediment of the Great Lakes the Great Lakes <i>An Li</i>	RISK21: A Transparent & Approachable Risk Assessment Framework <i>Michelle Embry</i>	
1:50	Methylmercury biomagnification in subtropical forest food webs <i>Long Hei Cheng</i>	A screening level risk assessment of metal and organic contaminants in the Everglades National Park, Biscayne National Park, and Big Cypress National Preserve (South Florida, USA) <i>John Carriger</i>	
2:10	How can environmental non-targeted analysis be applied outside of the mass spectrometric community? Communicating the HPLC-HRMS analysis results to scientists from other fields, monitoring, and regulatory authorities in examples <i>Roman Grabic</i>	Ecological Risk assessment for metal contamination in the Chicago River sediment <i>Cameron McCoy</i>	
2:30	Integrating dynamic road segmentation and geostatistical techniques for monitoring transportation related PM2.5 <i>Ngoc Tuyen Nguyen</i>	Potential health risk of 2,3,7,8 TCDD from contaminated soil in A Luoi district in central Vietnam <i>Hai Le Le</i>	
2:50	Break	Break	
3:10	A Remote Sensing-Based Approach for Investigating the Plant Tolerance Ability to Air Pollution <i>Chamila Priyankara Hetti Arachchige</i>	Environmental radioactivity and its relevance to public health <i>Fernando Carvalho</i>	
3:30	Comparison of source contribution of organic aerosols in PM2.5 during summer and winter at an urban site and a rural site <i>Yan Zhang</i>	Public dose assessment from external and internal radiation exposure in an elevated-level natural radiation area of Dong Pao (Lai Chau province) in Vietnam <i>Dung Nguyen</i>	
3:50	Visit the Explorascience Space Center of Binh Dinh Province		
5:20	Back to ICISE		
5:30	Participants own activities: Beach walk/swimming, exploring ICISE landscape, group discussion, etc.		
7:00	Conference dinner in ICISE		
9:00	Shuttle buses take conference participants back to Seagull Hotel		

TIME		WEDNESDAY (MARCH 6)	
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE		
	Room 1 (1 st floor)		
8:30	Plenary presentation: Endocrine disrupting chemicals in children: Proposing global biomonitoring network <i>Prof. Kyungho Choi of Seoul National University, Korea</i>		
	Room 1 (1 st floor)		Room 2 (2 nd floor)
	Session 7: Fate and effects of pesticides and POPs <i>Chairs: Dr. Daniel Schlenk, Dr. Daniela Pampanin</i>		Session 8: Emerging contaminants: fate and effects <i>Chairs: Dr. Marc Benedetti, Dr. Cong Nguyen</i>
9:20	Effects of oil exposure on gut microbial communities and predicted health consequences in juvenile Atlantic cod (<i>Gadus morhua</i>) <i>Daniela Pampanin</i>		Radium (226Ra) toxicity to <i>Oncorhynchus mykiss</i> and <i>Catostomus commersonii</i> from fertilization to swim up <i>Edgar Perez</i>
9:40	Structural differences in oxygenated PAH developmental toxicity <i>Daniel Schlenk</i>		In-situ investigation of the influence of municipal pollution on the early life stages of fish <i>Tomas Randak</i>
10:00	Break		Break
10:20	Interactions between heavy metal exposure and blood biochemistry in an urban population of the black swan (<i>Cygnus atratus</i>) in Australia <i>Damien Nzabanita</i>		Sublethal effects of the pharmaceutical, carbamazepine, to early life stage zebrafish (<i>Danio rerio</i>) development <i>Jason Magnuson</i>
10:40	Different sensitivity of cholinesterase in early stages of snakehead fish (<i>Channa striata</i>) to insecticide diazinon <i>Cong Nguyen</i>		Concentrations of PFAS in estuarine fishes and the potential dietary health risks <i>Erin Pulster</i>
11:00	Ecological risks and health risks of some groups of persistent organic pollutants in the environment of the main red river estuary <i>Diep Do</i>		Titanium nanoparticles fate in small-sized watersheds under different land-uses <i>Marc Benedetti</i>
	Room 2 (2 nd floor)		
11:25	Graduate program introduction (Prof. Mark Robson, Rutgers University, USA, virtual)		
11:40	Graduate program introduction (Prof. Hue Nguyen, University of Hawaii at Manoa, USA)		
11:55	Graduate program introduction (Prof. Bryan Brooks, Baylor University, USA)		
12:10	Lunch		
1:30	Visit Bird Island (leaving from Seagull Hotel)		
5:30	Back to Seagull Hotel, dinner on your own		

TIME	THURSDAY (MARCH 7)
7:45	Shuttle buses take conference participants from Seagull Hotel to ICISE
	Room 1 (1 st floor)
8:00	Plenary presentation: Assessing the risk of metal contaminants in aquatic systems <i>Dr. Jenny Stauber of CSIRO, Australia</i>
	Session 9: Climate change and environmental impacts and management <i>Chairs: Dr. Dal Val, Dr. Sandra Knuteson</i>
8:40	Predicting Microbial Roles in Marine Organic Carbon Transport <i>Trang Nguyen</i>
9:00	Study on the biodegradable decomposition of plant-based organic waste by <i>Hermetia illucens</i> larvae <i>Diep Yen Nga Dang</i>
9:20	Investigating the shrimp farming wastewater treatment by microalgae-bacteria symbiosis under different operational conditions <i>Thi Kim Quyen Vo</i>
9:40	Break
10:00	Management of Environmental Quality of Beaches in Northern Emirates of the UAE <i>Sandra Knutson</i>
10:20	Measuring Impact: when too much information becomes a problem <i>Ross Smith</i>
10:40	Fish of the Amazon in the Anthropocene <i>Adalberto Val</i>
11:00	Break
11:20	Closing and student presentation awards
11:40	Lunch

Poster Presentation

MONDAY (MARCH 4, 4:00 - 5:30PM)

Number	Title	Presenter
1	Multivariate statistical analysis for evaluating ambient air quality in Tien Giang, Viet Nam	Toan Pham
2	Enhancing environmental responsibility: an improved framework for recognizing and rewarding green enterprises in Vietnam towards fairness and sustainability	Tram Ly
3	Structural measures as primary approaches for saltwater intrusion in the Vietnamese Mekong Delta: priority and impact, a case study in the Travinh Province.	Hung Nguyen
4	Application of GIS and SWMM model to assess urban flooding in Hung Phu 1 Residential Area of Cai Rang District	Ngan Nguyen
5	Estimation of Chlorophyll-a concentration in the Mekong River, Vietnam utilizing physicochemical parameters and remote sensing data	Trang Nguyen
6	The toxicity of cartap hydrochloride pesticide on the fingerling of silver barb (<i>Barbonymus gonionotus</i> , Bleeker, 1849)	Tam Nguyen
7	Intoxication of pharmaceutical drugs (clofibric acid and diclofenac) in the indian major carp <i>Cirrhinus mrigala</i> : responses of blood, gill, liver, and kidney	Manoharan Saravanan
8	Toxicity effect of some rare earth elements (Eu, La, Sm, Lu, Ce) on a marine model species <i>Tigriopus fulvus</i> (Crustacea, Copepoda)	Ermelinda Prato
9	Integrated biomarker response in signal crayfish <i>Pacifastacus leniusculus</i> exposed to diphenhydramine and diclofenac	Vladimir Zlabek
10	Human health risk assessment of mercury-contaminated soils in alebediah mining community, Sudan	Ahmed Elwaleed
11	Effect of ozone nanobubbles on common carp embryo development	Trang Vu
12	Evaluation of carbon stable isotope composition ($\delta^{13}\text{C}$) in some types of microplastic	Lan Anh Ha
13	Ingestion and trophic transfer of microplastics through aquatic to terrestrial organisms	Tham Hoang
14	Ingestion and accumulation of microplastics in small marine fish and potential human exposure: case study of Binh Dinh, Vietnam	Hoa Nguyen
15	The utilization of a bamboo-based unsaturated constructed wetland as a greenroof for enhancing urban greening space coupled with treating grey wastewater	Dan Nguyen
16	Using vermicompost and organic amendments on organic black pepper production	Thanyakan Sengkhrua
17	Characterization of dibenzofuran degrading bacteria and related biosurfactant producing bacteria in contaminated soils	Kieu Oanh Nguyen
18	Research on decomposition of organic compounds methyl orange by photocatalyst tio2	Le Hai Le
19	Application of <i>Vernonia elliptica</i> and <i>Campis radicans</i> for green roof systems to greywater treatment: A case study in Ho Chi Minh City	Sac Tran
20	Biomass recovery and environmentally friendly bioplastic production which is potential for making value-added products	Pham-Yen Nhi Tran
21	Evaluation of the nutrient removal performance of the revolving algae biofilm reactor in different nitrogen loading rates using co-culture of algae-bacteria	Thi-Yen-Phuong Nguyen
22	<i>Aloe vera</i> waste biomass-based adsorbents for the removal of diesel oil in water	Trang Luong
23	Study on activated biochar for eliminating multiple toxic elements from contaminated water	Thuy Dang
24	Polymerization bicontinuous microemulsion coating to reduce membrane fouling in Anaerobic membrane bioreactor (AnMBR) for seafood processing wastewater	Luu Tran
25	Environmental applications of kaolinite: case study of South Vietnam	Thuy Hoang