


# Science of The Total Environment

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## About the journal

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[Abstracting and indexing](#)

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## Co-Editors-in-Chief



Damià Barceló

Institute of Environmental Assessment and Water Research, Barcelona, Spain

Environmental analysis, Water and soil quality, Organic mass spectrometry, Emerging organic contaminants, Nanomaterials, Biosensors for, Analysis, Fate and Risk of Emerging Pollutants such as Pharmaceuticals and Nanomaterials in the Environment Water Pollution Control and Protection Bridging analytical chemistry with ecotoxicology- toxicity identification, Evaluation techniques used, GC and LC tandem MS, biosensors, sample preparation, automated on-line techniques for water analysis environmental samples (water, including marine waters, sediments soils, biota samples)




Jay Gan

University of California Riverside, Riverside, California, United States

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## Philip Hopke

University of Rochester, Rochester, New York, United States

Characterization of source/receptor relationships for ambient air pollutants, Multivariate statistical methods for data analysis, Chemical characterization of ambient aerosol samples, Emissions and properties of solid biomass combustion systems, Experimental studies of homogeneous, heterogeneous, and ion-induced nucleation, Indoor air quality, Exposure and risk assessment

## Special Issues Editor



Elena Paoletti

Research Institute on Terrestrial Ecosystems National Research Council Florence Branch, , Italy

Plant health, Plant ecophysiology, Forests, Climate stressors, Air pollution impacts on terrestrial ecosystems, BVOC, Ground-level ozone



Paola Verlicchi

University of Ferrara, Ferrara, Italy

Water treatment, Wastewater treatments, Reuse of reclaimed water, Occurrence and removal of pharmaceuticals from (waste)water, Hospital effluent management and treatment, Petrochemical wastewater treatment, Environmental risk assessment

## Associate Editors




Lotfi Aleya

Chrono-environment, Besancon, France

Harmful algae, microbiology, protistology, Medicine, Toxicology

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## emerging pollutants



**Baoliang Chen**

Zhejiang University, Hangzhou, China

Soil pollution control and remediation; Traditional and novel functional materials and environmental applications (biochar, graphene, biosorbent, and organoclay); Sorption and reactions of organic and inorganic contaminants with natural and synthesised media; Novel membrane and pollutant abatement



**Jianmin Chen**

Fudan University Department of Environmental Science and Engineering, Shanghai, China

Gaseous and particulate air monitoring and chemistry (particularly urban), Secondary aerosol, Haze formation and fog chemistry, Human toxicity of atmospheric particulates, Aerosols and climate impacts



**Frederic Coulon**

Cranfield University, Cranfield, Bedfordshire, United Kingdom

Environmental Pollution and Remediation, Water-Soil-Waste System Engineering and Modelling, Risk Management, Environmental Biotechnology, Analytical chemistry, Environmental Sciences & Ecology, Polar environments, Bioaerosols, Hazardous waste management




**Adrian Covaci**

University of Antwerp Toxicological Centre, Wilrijk, Belgium

Human exposure; Exposure assessment; Human health effects; Biomarkers; Food safety; Biomonitoring; Indoor pollution; Emerging contaminants; Legacy contaminants; Wastewater epidemiology

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services for insurance, agriculture, energy, water and health sectors, marine, coastal, and urban environments, developing countries

## Kuishuang Feng

University of Maryland at College Park, Department of Geographical Sciences, College Park, Maryland, United States

Carbon Accounting, Climate Mitigation, Sustainable Consumption and Production, Environmental Input-output Analysis, Virtual Water Flow Analysis



## Xinbin Feng

Institute of Geochemistry Chinese Academy of Sciences, Guiyang, China

Mercury biogeochemical cycling in the environment and its health impact, Mercury stable isotope geochemistry and remediation of mercury contaminated lands, Cd, Pb, As and Sb biogeochemical cycling in the environment



## Yucheng Feng

Auburn University Department of Crop Soil and Environmental Sciences, Auburn, Alabama, United States

Soil microbiology, Fecal pollution of surface water, Biodegradation and bioavailability of organic pollutants, Pesticides, Plant-soil-microbial interaction




## José Virgílio Matos Figueira Cruz

University of the Azores, Ponta Delgada, Portugal

Groundwater geology; Groundwater geochemistry; Surface water chemistry; Water quality; Water pollution; Water management; Water planning

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Dissolved organic matter; Biomarkers



Ashantha Goonetilleke

Queensland University of Technology, Brisbane, Queensland, Australia

Water quality, Water pollution, Water reuse, Water treatment, Stormwater pollutant processes, Integrated Water Resources Management, Water infrastructure resilience, climate change adaptation

Mae Sexauer Gustin

University of Nevada Reno, Reno, Nevada, United States

Biogeochemical cycling of mercury, metals, and isotopes, Air pollution



Henner Hollert

Goethe University Frankfurt Faculty 15 Bio Sciences, Frankfurt, Germany

Bioanalytical environmental toxicology; Aquatic toxicology; Triad (Weight of evidence) approaches; Effect directed analysis; Sediments; In-situ investigations and monitoring; In-vitro bioassays; Waste- and ground water investigations (advanced wastewater treatment); Ecology



Deyi Hou


Tsinghua University, Beijing, China

Sustainability assessment; Life cycle assessment; Environmental footprint analysis; Risk management; Contaminated soil and groundwater remediation; Heavy metal contamination; Biochar production and application; Green synthesis of environmental functional materials; Fate and transport of volatile organic compounds in porous media



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Pavlos Kassomenos

University of Ioannina, Department of Physics, Laboratory of Meteorology, Ioannina, Greece

Air pollution, Meteorology, Environmental health, Climate change, Particulates, Ozone, Bioaerosols, Dust transportation, Vehicle emissions, Noise



Ewa Korzeniewska

University of Warmia and Mazury in Olsztyn, Olsztyn, Poland

Air pollution quality and human health; Contaminant (bio)monitoring and assessment; Ecotoxicology and risk assessment; Environmental management and policy; Human health risk assessment and management; Waste and water treatment; Antibiotic resistance; Biogas production



Dimitra Lambropoulou

Aristotle University of Thessaloniki, Thessaloniki, Greece

Emerging Contaminants, Organic Pollutants, Transformation Products, Environmental fate, Sample preparation and analysis, Advanced mass spectrometry techniques, Environmental monitoring and risk assessment, water quality, Treatment processes for water and wastewaters



Christian Herrera Lameli

Bernardo O'Higgins University, Santiago, Chile

Hydrogeology; Groundwater geochemistry; Isotope hydrogeology; Surface water – groundwater interactions; Remote sensing in groundwater; Climate change

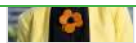


Jurgen Mahlkecht

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Lidia Morawska

Queensland University of Technology The International Laboratory for Air Quality and Health, Brisbane, Queensland, Australia

Air pollution, Air quality, Indoor air pollution, Exposure assessment, Contaminated particulates, VOC, anthropogenic, Characterization, Automotive, Apportionment, Pollution transport, Monitoring, Analytical



Huu Hao Ngo

University of Technology Sydney School of Civil and Environmental Engineering, Broadway, New South Wales, Australia

Water and wastewater treatment and reuse technologies, Alternative water resources, Water management and impact assessment, Solid waste management, Specific green technologies, Water – waste – energy nexus, Greenhouse gas emission control and minimisation



Jose Julio Ortega-Calvo

Institute of Natural Resources and Agrobiology of Sevilla Agrochemistry Environmental Microbiology and Soil Conservation, Sevilla, Spain

Biodegradation and biotransformation of organic pollutants in soils and sediments; Bioremediation; Environmental microbiology; Bioavailability and persistence; Risk assessment




Wei Ouyang

Beijing Normal University, Beijing, China

Water environment and climate risk, Watershed environment management, Non-point source modeling and control, Diffuse pollution assessment

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pressure; multivariate statistical and environmental analyses of surface and groundwater databases, with focus on the prevention of surface and groundwater contamination; land degradation and management, as well as the negative impacts of inadequate land uses on soil erosion, surface and groundwater quality; water security issues, such as conjunctive use of surface and groundwater sources in public water supply systems, or the attenuation of hydrologic extremes (floods, droughts) through implementation of detention basins and decentralized rainwater harvesting systems in catchments.



Elena Paoletti

Research Institute on Terrestrial Ecosystems National Research Council Florence Branch, , Italy  
Plant health, Plant ecophysiology, Forests, Climate stressors, Air pollution impacts on terrestrial ecosystems, BVOC, Ground-level ozone



Anastasia Paschalidou

Democritus University of Thrace Department of Forestry and Management of the Environment and Natural Resources, Orestiada, Greece

Air pollution meteorology, Urban meteorology, Dust transportation, Climate change, Environmental health / Environmental epidemiology, Biometeorology, Synoptic climatology, Dispersion Modeling, Air Quality Indices



Paulo Pereira


Mykolas Romeris University, Vilnius, Lithuania

Soil degradation, Soil erosion, Soil processes, Forest Fires, Spatial Analysis, Mapping, Geostatistics, Ecosystem Services



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Media / Habitats, drinking water, water quality, water pollution, rivers, lakes, sediments, watersheds, soils, exposure assessment, human health effects, biomarkers, bioindicators, dietary exposure, food contamination, food safety, Human Health Effects, pesticides, endocrine disruptors, pharmaceutical residues, organics, analytical, surveys



Charlotte Poschenrieder

Autonomous University of Barcelona Faculty of Biosciences, Bellaterra, Spain

Plant-Environment Interactions, Plant-Soil Relationships, Salinity, Plant- Microbe Interactions, Plant Toxicology, Crop Production, Plant Natural Adaptation

Sergi Sabater

University of Girona, Girona, Spain

River and stream ecology; Biofilm ecology and ecotoxicology; Mediterranean; Water scarcity; Ecosystem functioning; Biodiversity; Conservation of rivers



Scott C. Sheridan

Kent State University, Kent, Ohio, United States

Human biometeorology, climate change, synoptic climatology, extreme temperature events

Wei Shi

North Carolina State University, Raleigh, North Carolina, United States

Soil Ecology, Microbial Ecology, Soil Carbon Sequestration, Nitrogen Cycling, Greenhouse Gas Emissions, Soil Microbiome, Nitrification, Denitrification, Organic Matter Decomposition


Filip M.G. Tack

Ghent University, Gent, Belgium

Heavy metals; Trace element biogeochemistry; Dredged materials; Soil and sediment remediation; Phytoremediation

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Contaminants of emerging concern; Non-target analysis; High resolution Mass Spectrometry; Microplastics; Biomonitoring



Daniel Tsang

The Hong Kong Polytechnic University Department of Civil and Environmental Engineering, Hong Kong, Hong Kong

Green chemistry/engineering, Soil/sediment remediation, Engineered biochar, Waste valorization, Resource recovery, Wastewater/stormwater treatment, Catalytic conversion/degradation, Pollutant transport, Environmental pollution | Sustainable urban development, urban wastes, contaminated land and water, waste management (food, wood, plastic agro, sludge), green remediation, wastewater treatment.



Paola Verlicchi

University of Ferrara, Ferrara, Italy

Water treatment, Wastewater treatments, Reuse of reclaimed water, Occurrence and removal of pharmaceuticals from (waste)water, Hospital effluent management and treatment, Petrochemical wastewater treatment, Environmental risk assessment



Jan Vymazal


Czech University of Life Sciences Prague, Praha, Czech Republic

**Constructed and natural wetlands; Plant nutrient uptake; Heavy metals in macrophytes; Macrophyte biomass and production; Eutrophication**



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Daniel A. Wunderlin

National University of Cordoba, Cordoba, Argentina

Tracing pollutants from their source to foods, Food Integrity, including the evaluation of bioactive compounds in foods, Studying links between food production and environmental pollution



Daqiang YIN

Tongji University School of Environmental Science and Engineering, Shanghai, China

Persistent Toxic Substances, Emerging Pollutants, Environmental Toxicology, Ecotoxicology, Mechanisms of Action of Pollutants or Toxic Chemical, Bioassay and Biomarker, Antibiotic resistance, Risk assessment and Water Quality



Shuzhen Zhang

Chinese Academy of Sciences, Beijing, China

soil contamination, Sorption/desorption of organic contaminants, Bioaccumulation and transformation of organic contaminants in the terrestrial environment, Applications of synchrotron-based spectroscopy techniques in environmental chemistry, NOM analysis and effects on contaminant behaviors




Yifeng Zhang

Technical University of Denmark Department of Environmental Engineering, Kongens Lyngby, Denmark

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## Editorial Board

Jésus R. Aboal Viñas, PhD.

University of Santiago de Compostela, Santiago de Compostela, Spain

Biomonitoring; Moss biomonitoring; Raptor biomonitoring; Algae biomonitoring; PAHs contamination; Heavy metal contamination; Cellular localization of metals; Hydrological fluxes of forest canopies



Evgenios Agathokleous, PhD

Nanjing University of Information Science and Technology School of Applied Meteorology, Nanjing, China

Adaptive response, air pollution biomonitoring, carbon dioxide (CO<sub>2</sub>) ecological effects and health, dose-response relationship, ecophysiology, ecotoxicology, environmental change biology, environmental health, hormesis, hormetic dose-response, linear-non-threshold (LNT) dose-response, no-observed-adverse-effect-level (NOAEL), organismic susceptibility, organism response to contaminants and pollutants, ozone (O<sub>3</sub>) impacts, photosynthesis, plant-insect interaction, plant-microbe interaction, preconditioning, priming, species tolerance, stress response



Warish Ahmed

Commonwealth Scientific and Industrial Research Organisation (CSIRO), Land and Water Flagship, Dutton Park, Australia

Microbial source tracking, ARGs, Health risk, Wastewater microbiology, Water microbiology, Enteric viruses




Souhail R. Al-Abed

National Risk Management Research Laboratory, Cincinnati, Ohio, United States

Environmental implication and applications of nanomaterials; Sediment and water remediation; Contaminant (metals and organics) transformations in the environment; Reuse of materials in environmental applications

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Dong An, PhD

Fudan University Department of Environmental Science and Engineering, Shanghai, China  
Water treatment, Wastewater treatment, Adsorption, Advanced oxidation, Reuse water



Alexandros G. Asimakopoulos

Norwegian University of Science and Technology, Trondheim, Norway



Takashi Azuma, PhD

Osaka University of Pharmaceutical Sciences Faculty of Pharmaceutical Sciences, Takatsuki, Japan  
Pharmaceuticals and personal care products (PPCPs), Antimicrobial-resistant bacteria (AMRB), Water environment, Sewage treatment plant, Hospital effluent, Occurrence and environmental fate, Water treatment system, Water management, Environmental science, Environmental hygiene




Roya Bahreini

University of California Riverside, Riverside, California, United States  
Aerosol sources; Formation processes; Composition and microphysical properties; Direct and indirect effects on climate



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Michael Bank, PhD

Institute of Marine Research, Bergen, Norway

Mercury, microplastics, ocean health, seafood safety, ecotoxicology, isotopic niches, Bayesian modeling, contaminants

Kunshan Bao

South China Normal University, Guangzhou, China

Anthropocene, Atmospheric dust, Carbon burial, Climate change, Decipher human-climate interactions, Ecological risk assessment, Human impact, Historical trend, Holocene, Lake and wetland environmental change, Land cover change, Nutrient accumulation, Paleolimnology, Peatland, Potential harmful trace element, Polycyclic aromatic hydrocarbon, Pesticides, Radioisotopes, Rare earth elements

Carlos Barata

Institute of Environmental Assessment and Water Research, Barcelona, Spain

Analytical chemistry; Aquatic toxicology; Environmental risk assessment; Toxicogenomics

Roberto Bargagli

University of Siena, Siena, Italy

environmental biogeochemistry, active and passive biomonitoring of persistent contaminants in terrestrial and aquatic ecosystems



Georgios Bartzas, PhD


National Technical University of Athens - Zografou Campus, Zografos, Greece

Waste management, Environmental monitoring and Risk assessment, Life cycle analysis, Soil and Groundwater decontamination, Geochemical/ Thermodynamic modelling, Heavy metals and metalloids, Climate change



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Rafael Bergillos, PhD

University of Cordoba, Cordoba, Spain

Coastal Engineering, Beach Morphodynamics, Coastal Flooding, Ocean Energy, River Deltas, Fluvial Processes, Fluvial Hydraulics, Management Strategies, Climate Change, Sustainable Development



Harald Biester

Braunschweig University of Technology, Braunschweig, Germany

Biogeochemical cycling of mercury and trace elements; Biogeochemistry of peatlands



Lubertus Bijlsma, PhD

University Jaume I, Research Institute for Pesticides and Water, Castellon, Spain

Liquid Chromatography Mass Spectrometry; Ion mobility; Water quality; Contaminants of emerging concern; Wastewater-based epidemiology.




Jayanta Kumar Biswas

University of Kalyani, Kalyani, India

Water and soil contamination, Remediation of contaminants, Ecotoxicology of metal(loid)s and emerging contaminants, Bioremediation, Environmental microbiology, Ecological engineering, Ecotechnology, Nanobiotechnology, Wastewater treatment and resource recovery

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concern; Pharmaceuticals; Water Reuse; Remediation; Environmental microbiology; Urban and Aquatic Ecology



Satinder Brar Kaur, Ph.D.

INRS – Research Centre on Water Earth and the Environment, Quebec, Quebec, Canada

Wastewater; Wastewater sludge; Treatment; Emerging contaminants; Antibiotics; Fermentation; Value-added bioproducts, such as enzymes, organic acids, platform chemicals, biocontrol agents, biopesticides, butanol and biohydrogen



Bryan W. Brooks, PhD

Baylor University Department of Environmental Science, Waco, Texas, United States

Water Quality, Environmental and Aquatic Eco- Toxicology, Risk and Hazard Assessment, Comparative Pharmacology and Toxicology, Environmental Public Health, Harmful Algal Blooms, Green and Sustainable Chemistry, Urban and Aquatic Ecology, Water Reuse.



Giorgio Buonanno

University of Cassino and Southern Lazio, Cassino, Italy

10.020: Air pollution; 10.030: Air quality; 10.040: Indoor air pollution; 70.040: Clean technologies; 80.050: Incineration

Joanna Burger

Rutgers University Division of Life Sciences, Piscataway, New Jersey, United States


Eco-toxicology; Behaviour; Monitoring and assessment; Birds and reptiles





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Auburn University, Auburn, Alabama, United States

Air pollution and global climate effects to terrestrial ecosystems; Native plant community responses (shifts in diversity) to air pollutants and global climate change; Plant-stress-air pollution/global climate change interactions; Urban ecology and ecosystem services



Da Chen

Jinan University, Guangzhou, China

Environmental chemistry; Analytical chemistry; Ecotoxicology; Persistent organic pollutants; Flame retardants; Pesticides; Mass spectrometry; Gas/liquid chromatography.



Wei Chen

Nankai University College of Environmental Science and Engineering, Jinnan District, Tianjin, China

Nanoparticles; Nanomaterials; Adsorption; Reactivity; Transport; Remediation; Groundwater; Soil; Organic contaminants



Xueming Chen, PhD

Fuzhou University, Fuzhou, China

Mathematical modeling, wastewater treatment, greenhouse gas, membrane-based biofilm technology, biological nitrogen removal




Chin K. Cheng, PhD

Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates

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## Joaquín Cochero

National Scientific and Technical Research Council, Buenos Aires, Argentina

Biofilm; Stream ecology; Biomonitoring; Urban streams; Citizen science



## Xinyi (Lizzy) Cui, PhD

Nanjing University, Nanjing, China

Fate, transport, and ecotoxicology of legacy and emerging organic contaminants in soil, sediment, and indoor environment, especially the bioavailability study



## Guido Del Moro

Water Research Institute National Research Council Bari Branch, Bari, Italy

novel processes for wastewater treatment, aerobic granular biomass technologies, integration of chemical oxidation and biological processes for industrial wastewater, advanced oxidation processes, electro-degradation processes, wastewater treatment modelling



## Andrea Di Guardo, Ph.D

Environmental informatics, Milano, Italy

environmental fate of pesticides, landscape impact assessment, risk assessment of veterinary pharmaceuticals; environmental decision support systems, air pollution, environmental modelling, software engineering for the environment




## José L. Domingo

Rovira and Virgili University School of Medicine Laboratory of Toxicology and Environmental Health, Reus, Spain

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Judith Z. Drexler, PhD

US Geological Survey California Water Science Center, Sacramento, California, United States

Carbon accumulation in wetlands, Impacts of climate change on coastal ecosystems, Invasive plants as ecosystem engineers, Peat soils as archives of environmental change, Wetland restoration



Ali Ercan

University of California Davis, Davis, California, United States of America

Physically-based hydrologic and hydraulic modeling, river basin management, environmental hydrology and hydraulics, modeling impacts of changing climate, stochastic flow and transport processes, scaling, time series modeling, flood forecasting.



Ronald C. Estoque, PhD

National Institute for Environmental Studies Center for Social and Environmental Systems Research, Ibaraki, Japan

GIScience and Remote Sensing, Land Change Science, Urban/Landscape Ecology, Sustainability Science, Climate Change Vulnerability/Risk/Adaptation



Zhaozhong Feng


Nanjing University of Information Science and Technology School of Applied Meteorology, Nanjing, China  
Air pollutant, BVOCs, Crop growth, Forest health, N deposition, N use and allocation, Ozone pollution, Photosynthesis and C cycle, Water use efficiency, Urban environment and forestry

Jose Angel Fernández

University of Santiago de Compostela, Santiago de Compostela, Spain

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Bo Gao

China Institute of Water Resources and Hydropower Research, Beijing, China

Geochemistry of trace metals in environment; Water and sediment transport; Large-scale watershed management



Alejandro García-Gil

Geological and Mining Institute of Spain Geological Risks Processes and and Global Change, Zaragoza, Spain

Urban hydrogeology; Groundwater quality; Shallow geothermal exploitation impacts on water resources; Groundwater management; hydrogeochemistry; River-groundwater interaction; Groundwater flow and reactive transport numerical modelling; Groundwater microbiology; Emerging organic contaminants



Ruben Aldaco Garcia, PhD

University of Cantabria, Santander, Spain

Life Cycle Assessment; Circular Economy; Water-Energy-Food Nexus; Bioeconomy; Industrial Ecology.



Jorge Gardea-Torresdey

The University of Texas at El Paso, El Paso, Texas, United States


Applications of spectroscopy techniques in environmental chemistry; Phytoremediation; Novel methods for the bioproduction of nanoparticles; Development of analytical methods to detect nanomaterials; Study of the fate of nanoparticles in the environment; Applications of nanotechnology to clean water



Leobardo Manuel Gómez Oliván

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Daren Goody, PhD, CSci, CChem, MRSC

British Geological Survey - Wallingford Office, Wallingford, United Kingdom

Groundwater, Biogeochemical cycles, Residence time indicators



Andrew Gray

University of California Riverside, Riverside, California, United States

Sediment transport, Hydrology, Water quality, Plastic pollution, Watershed sediment dynamics, Sedimentology, Paleoenvironmental analysis



John Gulliver

University of Leicester, Leicester, United Kingdom

Noise and air pollution exposure assessment; Air pollution monitoring; Dispersion modelling; Land use regression modelling; Geographical information systems; Geo-statistical techniques (Kriging etc.); Spatial analysis of environmental and health data; Geographical studies of environment and health; Health risk assessments

Ying Guo

New York State Department of Health, Albany, New York, United States

My research interests: (1) biomonitoring organic chemicals in human body, such as phthalates, PAHs, organophosphate pesticide and environmental phenols; (2) monitoring organic pollutants in environment, e.g., persistent organic pollutants; (3) Analytical method development for novel organic contaminants in various environmental matrix. Recently, I am working on Exposome to women with fertility problems.




Gary Hardiman

Queen's University Belfast, Belfast, United Kingdom

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Tham Hoang

Loyola University Chicago, Chicago, Illinois, United States

Metal bioavailability and toxicity, Mixture toxicity, Pesticide toxicity, Microcosm studies, Water quality and pollution; Aquatic toxicology, Bioaccumulation of pollutants, Ecological risk assessment, Microplastics and environmental effects



Gerard Hoek

Utrecht University, Utrecht, Netherlands

Exposure assessment; Air pollution modelling; Environmental epidemiology

Patricia A. Holden

University of California Santa Barbara, Santa Barbara, California, United States

Water quality; Environmental microbiology; Fecal pollution, Biodegradation and bioremediation; Soil pollution and soil processes; Nanomaterials; Wastewater treatment; Biogeochemistry; Emerging contaminants; Hydrocarbons; Metals

Peter Hooda

Kingston University, Kingston Upon Thames, United Kingdom

Soil Science, Soil use and management, soil fertility, soil organic carbon management, soil contamination & remediation, degraded land restoration




Kiril Hristovski, Ph.D.

Arizona State University - Polytechnic Campus, Mesa, Arizona, United States

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Hahz M. N. Iqbal, PhD

Technological and Higher Education Institute of Monterrey, School of Engineering and Sciences, Monterrey, Mexico

Environmental Engineering, Bioengineering, Biomedical Engineering, Bioremediation, Emerging contaminants, Wastewater treatment, Biomaterials, Bio-catalysis, Enzymes, Enzyme-based pollutant degradation, Immobilization, Toxic heavy elements, Liquid and solid waste management, Valorization of agro-industrial wastes and by-products

Darrel Jenerette

University of California Riverside, Riverside, California, United States

Land use/ land cover, Carbon and nitrogen cycling, Ecohydrology, Drylands, Urbanization, Spatial analysis, Remote sensing



Rong Ji

Nanjing University, Nanjing, China

Organics; Terrestrial; Biodegradation; Environmental process; Radiotracer



Sunny Jiang, Ph.D.

University of California Irvine, Irvine, California, United States

Environmental Microbiology, Environmental Engineering, Water Treatment, Environmental Technology, Microbial Risk Assessment




Wei Jiang

Shandong University Environment Research Institute, Qingdao, China

Environmental risk of nanomaterials; Nano-bio interaction; Cell membrane damage; Cytotoxicity; Nanoparticle transport

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Begoña Jiménez, PhD

Spanish Scientific Research Council, Madrid, Spain

Persistent Organic Pollutants (POPs), Dioxins, PCBs, Fate of POPs, Contaminants of emerging concern, Organic pollutants in aquatic and terrestrial ecosystems, Bioindicators, Marine mammals, Air Pollution, Environmental chemistry, Monitoring

Sarah Jovan

USDA Forest Service Pacific Northwest Region, Portland, Oregon, United States

My greatest expertise is in using lichen community composition for monitoring and quantifying nitrogen pollutants. But I also work with lichen/moss tissue assays (for N, S, metals, PAHs), landscape-scale community-based gradient modeling more generally, and biomass modeling for ground-dwelling non-vascular communities in boreal and tundra systems.



Anna Jurado

TU Dresden, Dresden, Germany

Aquifer recharge quantification, Emerging organic contaminants, Greenhouse gases, Groundwater quality, Groundwater management, Urban groundwater, River-groundwater interaction, Managed aquifer recharge, Numerical modelling, Quantitative hydrogeology



Athanasios Katsogiannis


European Commission Joint Research Centre Ispra Sector, Ispra, Italy

Development and optimisation of analytical chemistry techniques and sampling methodologies to the source understanding; Occurrence and fate of organic contaminants in all environmental compartments, including indoor air, atmospheric air, soil, water and/or wastewater



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hydrology, Water resources management, Floods, Climate change impacts on water resources, Managed Aquifer Recharge

M.B. Kirkham

Kansas State University Department of Agronomy, Manhattan, Kansas, United States

Soil-plant-water relations, Drought stress, Elevated carbon dioxide, Uptake of heavy metals by plants



Charles Knapp

University of Strathclyde, Glasgow, Scotland, United Kingdom

Microbial ecology; Bacteria; Microorganisms; Wastewater; Surface water; Nutrients; Eutrophication; Antibiotic resistance; Antimicrobial resistance; Molecular ecology



Dana Kolpin

US Geological Survey Central Midwest Water Science Center, Iowa City, Iowa, United States

Endocrine disruptors; Pharmaceutical residues; Non-point; Pollution transport; Chemical transport



Manish Kumar, PhD


Indian Institute of Technology Gandhinagar, Ahmedabad, India

Contaminant Transport and Remediation, Hydrogeochemical Processes, Geogenic and Emerging Pollution, Heavy Metal Speciation and Toxicity, Wastewater Surveillance of COVID-19, Antimicrobial Resistance, Groundwater, Isotope Fingerprinting, Submarine Groundwater Discharge, Arsenic, Soil and Sediment Pollution, Wastewater Treatment Systems.



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Keisuke Kuroda

Toyama Prefectural University, Imizu, Japan

Subsurface geochemistry and mitigation technologies of contaminants of emerging concern (CECs)



James Lam

The Education University of Hong Kong Department of Science and Environmental Studies, Hong Kong, Hong Kong

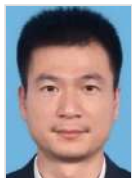
POPs, Emerging contaminants, Risk assessment



Jae-Seong Lee, PhD

Sungkyunkwan University College of Natural Science, Suwon, Korea, Republic of

Molecular ecotoxicology, comparative genomics, rotifers, copepods, killifish, oxidative stress, mechanistic toxicity, lipid metabolism, microplastics, emerging chemicals, ocean acidification



Guoyong Leng, PhD

University of Oxford Environmental Change Institute, Oxford, United Kingdom


Crop Modeling, Global Food Security, Water-Food Nexus, Climate Change, Hydrometeorology, Droughts, Land Surface Modeling



Juying Li

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## Shibin Li

Syngenta Crop Protection LLC, Greensboro, North Carolina, United States

Environmental toxicology, Regulatory toxicology, Ecotoxicology, Exposure science, Risk assessment, Product safety



## Xiangkai Li

Lanzhou University School Of Life Sciences, Lanzhou, China

Microbial heavy metal remediation, Heavy metal remediation genes, Synthetic biology for environment, Waste water treatment, Bio-energy.



## Zhao-Jun Li, PhD

Chinese Academy of Agricultural Sciences Institute of Agricultural Resources and Regional Planning, Beijing, China

Antibiotics and related resistance genes in manure or environments, emerging contaminants, Heavy metal contamination, reuse of agricultural wastes.



## Daohui Lin

Zhejiang University, Hangzhou, China

Nanomaterials; Ecotoxicity; Nanotoxicity; Bioavailability; Colloidal behavior; Sorption




## Kunde Lin

Xiamen University, Xiamen, China

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Guangdong Technion-Israel Institute of Technology, , China  
Applied Environmental Microbiology, Microbial Biofilms, Biodeterioration and Biocorrosion,  
Geomicrobiology of Cultural Heritage, Biofouling Control, Antimicrobial Biomaterials, Archaeal Cultivation,  
Extracellular Electron Transfer



Yangxian Liu, PhD

Jiangsu University, School of Energy and Power Engineering, Jiangsu, China

Air pollutant control, Gaseous pollutants removal (e.g., SO<sub>2</sub>, NO<sub>x</sub>, Hg<sub>0</sub>, CO<sub>2</sub>, H<sub>2</sub>S, etc.) by oxidation,  
adsorption and/or catalysis, Advanced oxidation technology for removal of gaseous pollutants



Manuel Esteban Lucas-Borja, PhD

University of Castilla-La Mancha, Ciudad Real, Spain

Forest Hydrology, Soil erosion, Forest fires, Forest Management, Mediterranean forest

Ralf Ludwig

Ludwig Maximilians University Munich, Munich, Germany

Hydrology; Water resources management; Climate change; Land use change; Extreme events; Modeling;  
Remote sensing




AMITAVA MUKHERJEE, PhD, FRSC, FRSB

VIT University, Vellore, India

Green nanomaterials, Emerging Pollutants, Heavy metals, Water Treatment, Delivery Systems, Nano-  
ecotoxicology, Nanobiosensors, Nanocomposites, Bioremediation, Fate and transport of Nanomaterials,  
Nanofertilizers

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environmental persistence and control, engineered and plumbing systems, disinfection, public and occupational health

Sheila Macfie

Western University, London, Ontario, Canada

Metal toxicity in plants; Metal localization in plants; Rhizosphere chemistry



Konstantinos Makris

Cyprus University of Technology, Lemesos, Cyprus

Human exposome, environmental health, non-pharmacological trials, metabolomics



Sonia Manzo

ENEA Centro Ricerche Portici, Portici, Italy

Ecotoxicology, Nanomaterials, Aquatic environment, Seawater, Microalgae, Seaurchin, Risk assessment



Adriaan Albert Markus

Deltares, Delft, Netherlands


Water quality modelling; Numerical modelling and programming in various languages (notably Fortran, in relation to numerical modelling); Transport and fate of nanoparticles and microplastics in the aquatic environment



Antonio Martínez Cortizas, PhD

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Ioannis Matiatos

International Atomic Energy Agency, Vienna, Austria

Isotope hydrology; Water resources management; Hydrogeochemistry; Groundwater modeling; Applied statistical modeling; Climate change impact; Environmental monitoring; Water quality



Janine McCartney, Ph.D, CSP, CHST, CSI(ML), MBA

HHC Services Inc, Lester, Pennsylvania, United States

Chemical Exposures, Toxic tort, Biomarkers, Industrial Hygiene, Employee chemical exposures and community chemical exposures, Safety Engineering, Arc Flash Analyses and Accidents, Electrical Safety, Falls, Equipment & Machinery, Human Factors, Accident Investigation/ Reconstruction, OSHA, Guarding, Construction, Industrial & Premises Accidents, Oil & Gas Extraction, Pipeline Safety and Refinery Safety, Lead and Electrocution

Thomas Meinelt

Leibniz-Institute of Freshwater Ecology and Inland Fisheries in the Forschungsverbund Berlin eV, Berlin, Germany

Alternative treatments in aquaculture; Impact (and interaction) of humic substances on environment and animals.




Derek Muir

Environment and Climate Change Canada, Aquatic Contaminants Research Division, Burlington, Ontario, Canada

Environmental chemistry; Biogeochemistry; Bioaccumulation; Persistent organic pollutants; Chemicals of emerging concern; Chemical inventories; Mercury; Polycyclic aromatic compounds; Arctic; Marine mammals; Fish

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pollutants, environmental microbiology, plant-metal-microbe interactions, nano-biotechnology, nanoparticles synthesis and their applications, microbial community analysis, production of microbial metabolic products and its environmental application, and microplastics.



Vincenzo Naddeo, PhD

University of Salerno Department of Civil Engineering Sanitary Environmental Engineering Division (SEED), Fisciano, Italy

Contaminants of emerging concern, Electrochemical process, Membrane Bioreactors (MBRs), Sustainable Desalination, Water-Energy-Nexus, ,

Jacek Namieśnik

University of Gdansk, Gdansk, Poland

Environmental analytics and monitoring; Food analysis; QA/QC systems; Green analytical chemistry; Envirometrics

Howard S. Neufeld

Appalachian State University, Boone, North Carolina, United States of America

The effects of ozone on plants; The role of anthocyanins in vegetative tissues in plants; Climate change impacts on plants in the southern Appalachian mountains; Measuring plant gas exchange and plant water relations, using the Li-Cor 6400 and 6800 gas exchange systems, a Sperry hydraulic conductivity apparatus and Scholander pressure chamber, as well as a variety of other instrumentation (including leaf fluorescence meter) to monitor plant responses to environmental stresses



Hai Tran Nguyen


DuyTan University Institute of Fundamental Science and Application, Da Nang, Viet Nam

Adsorption, nanomaterial, water treatment, water pollution, waste management

Hong-Gang Ni

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Avelino Nunez-Delgado

University of Santiago de Compostela Polytechnic School Superior, Lugo, Spain

Adsorption, Antibiotics, Buffer strips, Diffuse pollution, Emerging pollutants, Runoff, Sewage Sludge, Soil Degradation, Soil remediation and restoration, Waste treatment, Waste recycling, Water pollution, Water remediation, Water treatment



David O'Connor, PhD

Tsinghua University, Beijing, China

Soil and groundwater pollution; Biochar; Microplastics (MPs); Green and sustainable solutions; Contaminated land remediation



Fernando Pacheco-Torgal

University of Minho School of Engineering, Guimaraes, Portugal

Geopolymers, Concrete, Cement, Properties, Durability, Construction and demolition wastes, Industrial waste recycling, Masonry bricks, Masonry blocks, Nano particle based concrete, Concrete nanotechnology, Alkali-activated cement, Concrete with polymer admixtures, Biopolymer based concrete, Concrete recycling, Recycled aggregates, Construction wastes, Demolition wastes

Krishna Pagilla, Ph.D., P.E., BCEE

University of Nevada Reno, Department of Civil and Environmental Engineering, Reno, United States



Xiangliang Pan, PhD


Zhejiang University of Technology, College of Environment, Zhejiang, China

Microplastics; Antibiotic resistance genes; Remediation; Ecotoxicology



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## Momir Paunovic

University of Belgrade, Belgrade, Serbia

Hydrobiology; Aquatic macroinvertebrates; Freshwater mollusks; Invasive aquatic species; Feeding of benthivorous fish; Functional analyses of aquatic ecosystems; Relation of aquatic biota and environmental variables; Bio-monitoring in freshwater; Genotoxicological investigations on aquatic organisms; Microbiology of freshwaters



## Alexandra Pavlidou

Institute of Oceanography, Anavyssos, Greece

Eutrophication and eutrophication indexes according to WFD and MSFD; Biogeochemical cycles and nutrient dynamics in marine environments (coastal and open sea)

## Jian Peng, PhD

Peking University College of Urban and Environmental Sciences, Beijing, China

Trade-offs, supply-demand budget, scenario modelling, spatial planning

## Alexandre R. Péry

Institute of Life and Environmental Sciences and Industries, Paris, France

Toxicokinetic modelling, Toxicodynamic modelling, Ecotoxicology, Mixtures, Integrated risk assessment




## Wenhui Qiu

Southern University of Science and Technology, Shenzhen, China

The effects and mechanisms of action of bisphenols on the immune system and reproductive neuroendocrine system in fish ; prenatal exposure to antibiotics affects developmental immune system in zebrafish offspring and its mechanisms of action ; Metagenomics/metagenetics as a key to improving sustainable crop fertility and productivity and contributing to overall 'soil health'.

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Geochemistry; Geochemical mapping; Critical Zone Research; Soil chemistry



Tiina Reponen

University of Cincinnati, Cincinnati, Ohio, United States

Indoor air pollution; Exposure assessment; Bacteria; Fungi; Microorganisms; Microbiome; Biohazards; Monitoring

Robert Risebrough



Anacleto Rizzo

IRIDRA Srl, Florence, Italy

Constructed Wetland, Nature-Based Solution for Wastewater Treatment, Sustainable Water Management, Sustainable Sanitation Modelling, Sustainable Urban Drainage Systems, Water Sensitive Urban Design, Low Impact Development, Green Infrastructure, Ecosystem Service



Teresa Rocha-Santos, PhD

University of Aveiro, Aveiro, Portugal

Microplastic, Nanoplastic, Plastic, Microfibres, Organic contaminants, Marine monitoring, Environmental monitoring, Wastewater treatment, Biodegradation of microplastics, Sensors, Biosensors, Environmental Analytical Chemistry




Ismael Rodea-Palomares, PhD

Bayer CropScience LP, Research Triangle Park, North Carolina, United States

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Neil Rowan, PhD

Athlone Institute of Technology, Athlone, Ireland

Microbiology, Parasitology, Transnational Modelling, Risk Evaluation, Emerging Pollutants, Ecotoxicology, Biosecurity, Resource Utilization, Disruptive Innovation, Sustainability, Disinfection, Sterilization, Virology, COVID-19, PPE, Health, Food Systems

M<sup>a</sup> Jesús Sánchez-Martín

Institute for Natural Resources and Agrobiology of Salamanca, Salamanca, Spain

Pesticides, soil, water, organic amendments; Adsorption, desorption, degradation, mobility; Soil and water contamination by pesticides and emerging pollutants; Behaviour of pesticides in soils; Influence of organic amendments



Nan Sang, PhD

Shanxi University, College of Environment and Resource, Research Center of Environment and Health, Taiyuan, China

Toxicology, Environmental exposure, Atmospheric pollutant, Neurotoxicity

Ralf Bernhard Schäfer

University of Koblenz-Landau Institute of Environmental Sciences, Landau, Germany

Water quality; Rivers; Ecological effects; Chemicals; Aquatic toxicology; Invertebrates; Microorganisms; Modelling; Statistics




Jianwen She

California Department of Public Health Immunization Branch, Richmond, California, United States

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Samendra Sherchan

Tulane University, New Orleans, Louisiana, United States

Water quality, environmental microbiology, fecal pollution, harmful algal blooms, emerging contaminants, environmental monitoring, wastewater treatment, water pollution, water reuse, environmental health, climate change, antibiotic resistance, microbial risk assessment, microbiome, next-gen sequencing.



Wei Shi

Nanjing University, Nanjing, China

Environmental fate of emerging organic pollutants; Effect directed analysis based on instrumental analysis and bioassays



Rui da Silva Coutinho

University of the Azores, Ponta Delgada, Portugal

Hydrogeology, Volcanology, Natural Hazards, Water Resources Management, Environmental Geology.

Andreas Skouloudis



Athanasios S. Stasinakis


University of the Aegean Department of Environment, Mytilini, Greece

Wastewater treatment and valorization, Sludge management, Emerging contaminants, Aquatic pollution, Biodegradation



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Qian Sui, PhD

East China University of Science and Technology, Shanghai, China

Pharmaceuticals and personal care products, Micro-plastics, Emerging contaminants, Analytical methods, Environmental behaviors, Source apportionment, Advanced oxidation processes, Treatment processes

Yifei Sun, PhD

Beihang University, Beijing, China

Gasification, Pyrolysis, Biomass, Solid waste disposal, Persistent organic pollutants



Piotr Szefer, PhD

Medical University of Gdansk Faculty of Pharmacy and Laboratory Medicine, Gdansk, Poland

Biomagnification of major and minor elements along the sequential trophic levels of the marine biosphere, Bioavailability of metallic pollutants to benthic organisms as potential biomonitors in relation to the adjacent sediments and sea water, Analytical and chemometric assessment of food quality



Phong Thai

The University of Queensland Queensland Alliance for Environmental Health Sciences, Woolloongabba, Queensland, Australia

Wastewater analysis, Sewer-based epidemiology, Air quality monitoring, Air pollution epidemiology, Environmental monitoring




Maria Concetta Tomei, PhD

Water Research Institute National Research Council, Roma, Italy

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Meiping Tong, PhD

Peking University College of Environmental Science and Engineering, Beijing, China

Transport of nanoparticles, bacteria, microplastics in natural and engineered systems, Heteroaggregation of colloids, Toxicity of nanomaterials, Bacterial disinfection, Organic pollutant degradation, Heavy metal removal.



Ashley Townsend

University of Tasmania, Hobart, Australia

Environmental analysis; Geochemistry; Oceanography; Marine and Antarctic science; Materials science; Human health areas



Ngoc Han Tran, Ph.D.

National University of Singapore, Singapore

Environmental analytical chemistry, Emerging contaminants, Transformation of emerging contaminants, High-resolution mass spectrometry for targeted and non-target analyses, Occurrence and fate of emerging contaminants

Richard Van Curen

University of California Davis, Davis, California, United States of America

Aerosol Science, atmospheric pollution, climate science, atmospheric modeling


Yongshan Wan

United States Environmental Protection Agency Center for Environmental Measurement and Modeling Gulf Ecosystem Measurement and Modeling Division, Gulf Breeze, Florida, United States



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Qilin Wang, PhD, AWA, IWA

University of Technology Sydney Faculty of Engineering and Information Technology, Sydney, New South Wales, Australia

Biological wastewater treatment, Anaerobic digestion, Sludge treatment, Nutrient removal, Process modelling of biological wastewater treatment, Greenhouse gas production, Algae, Biochar, Bioenergy and value-added products, Aerobic digestion



Wei (Vivienne) Wang

Zhejiang University, Hangzhou, China

Radio-isotopic tracing and photographing; Pesticides; Organic pollutants; Bioavailability; Degradation; Metabolism: chemical analysis



Xiaoping Wang

Chinese Academy of Sciences, Beijing, China

Global cycling of POPs; Mechanism of long range atmospheric transport; POPs accumulation in polar region; Risk assessment of POPs, Brown carbon; Emerging contaminants; Tibet Plateau



Yixiang Wang, PhD

Zhejiang A and F University College of Environment and Resources, Hangzhou, China


Greenhouse gases, forests, forest management, Spatial Analysis, climate change

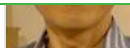
Shaun Watmough

Trent University, Peterborough, Ontario, Canada

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Jianming Xue

New Zealand Forest Research Institute Ltd. (Scion), , New Zealand

Biowaste and wastewater reuse, Emerging contaminants in biowaste and soil, Fate and transport of contaminants in terrestrial ecosystems, Antibiotic pollution and remediation, Biochar for environmental management, Plant uptake and translocation of contaminants, Plant-soil-microbe interactions, Phytoremediation of contaminated soils and water, Biowaste management and climate change



Ishwar Chandra Yadav

Tokyo University of Agriculture and Technology Graduate School of Agriculture Research Division of International Environmental and Agricultural Scienc, Tokyo, Japan

Persistent organic pollutants; Brominated and phosphate flame retardants; Heavy metal pollution; Aerosols; South Asia; PM2.5; Solid waste; E-waste; Himalayas



Kun Yang

Zhejiang University, Hangzhou, China

Organics, adsorption, organic matter



Yi Yang, PhD

East China Normal University, School of Geographical Sciences; State Key Laboratory of Estuarine and Coastal Research, Shanghai, China

Nanoparticles, Behavior, Incidental, POPs, ARGs , ,




Samantha Ying



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Jing You

Jinan University, Guangzhou, China

Organics; Ecotoxicology; Bioavailability; Sediment; Pesticides

Massimo Zacchini

National Research Council, Roma, Italy



Teng Zeng

Syracuse University, Syracuse, New York, United States

Occurrence and fate of organic micro-pollutants, Formation and control of disinfection by-products



Chaosheng Zhang, PhD

National University of Ireland Galway, Galway, Ireland

GIS and Environmental Geochemistry



Huichun Zhang, PhD

Case Western Reserve University Department of Civil Engineering, Cleveland, Ohio, United States

Oxidation, Reduction, Adsorption, Predictive Modeling, Emerging Contaminants




Xiaowei Zhang

Nanjing University, Nanjing, China

Ecotoxicology, Toxicogenomics, Ecogenomics, Endocrine disrupting chemicals, Effect based analysis, Adverse Outcome Pathways Biomonitoring, Biodiversity, Ecosystem Functions.

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Jian J. Zhao

Ocean University of China, Qingdao, China

Engineered Nanoparticles, Microplastics, Toxicity, Heteroaggregation, Adsorption, Dissolved Organic Matter

Bing Song Zheng, PhD

Zhejiang Agriculture and Forestry University, Human Resource Department, Hangzhou, Zhejiang, China

Plant-Environment Interactions; Forests; Heavy metals; Bioenergy; Environment stress; Plant ecophysiology



Hussein Znad

Curtin University, Perth, Western Australia, Australia

Microalgae & algal environmental applications; Wastewater/Air polluted treatment; Ad/Bio-sorbent development for heavy and rare earth metals; Optical functionalized nano-materials for detecting and removing metals from aqueous solution; Photo/catalyst development; Advanced Oxidation Processes (Photo-Fenton, Ozone, UV/Solar, ZnO/TiO<sub>2</sub> photo-catalysis); Biowaste-based biodiesel production; Bio-hydrogen production from wastewater; Modelling, Optimization, Scale-up of Photo/bio reactors.

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