DESCRIPTION

Beginning in 2019, *Environment International* became an open access journal and further expanded its scope into new areas of research to become a multi-disciplinary journal publishing high quality and novel information within the broad field of 'Environmental Sciences'.

Coverage includes, but is not limited to, the following research topics:

1) Public Health and Health Impact Assessment, Environmental Epidemiology (Prof. Mark Nieuwenhuijsen)
2) Environmental Health and Risk Assessment, Environmental Chemistry (Prof. Adrian Covaci)
3) Environmental Monitoring and Processes, Environmental Microbiology and Toxicology (Prof. Yong-Guan Zhu)
4) Environmental Technology (Prof. Thanh Huong (Helen) Nguyen)

The journal has published before on many of the above mentioned topics, and thus they are familiar to authors, readers, reviewers and editors. In particular, the following specific topics are welcome (non-exhaustive list), as long that they have a strong environmental aspect and applicability and if they discuss "interactions between environment and humans" in the broad sense.

1) Public Health and Health Impact Assessment, Environmental Epidemiology (Prof. Mark Nieuwenhuijsen)

The section overseen by Prof. Nieuwenhuijsen will cover novel topics related to the exposure assessment and epidemiology of indoor and outdoor air quality, noise, green space, temperature and other environmental exposures, the assessment and health effect of urban and transport planning and the built environment. We also welcome innovative research on women, children, migrants and elderly as specific and vulnerable sub-populations. Other topics of interest relate to the health implications and impacts of climate change with specific reference to sustainable development, including planetary health and urban health.

2) Environmental Health and Risk Assessment, Environmental Chemistry (Prof. Adrian Covaci)

The section overseen by Prof. Covaci covers novel topics related to the assessment, modelling and impact of chemicals of emerging concern on human exposure and human exposome in general, which are important in environmental and health risk assessment. We also welcome novel and innovative approaches for human biomonitoring and environmental "omics", for a broad range of Persistent Organic Pollutants, Endocrine Disruptors and Emerging Contaminants, including microplastics. These
tools are pivotal for the correct evaluation of source apportionment, exposure, fate, bioavailability, and biotransformation of environmental and food contaminants. We also want to attract innovative papers investigating the link between ecosystem health and human health and their input on the chemicals policy and regulation. We strongly encourage the submission of systematic reviews related to environmental and human health risk assessment.

3) Environmental Monitoring and Processes, Environmental Microbiology and Toxicology (Prof. Yong-Guan Zhu)

The section overseen by Prof. Zhu will cover environmental processes, ecotoxicology and environmental microbiology. For environmental processes, we welcome novel and innovative research submissions addressing biogeochemical processes in terrestrial and aquatic ecosystems, and their influence on the status and fate of contaminants and nutrients. Under the topic of ecotoxicology, we will cover novel areas of toxicological studies, particularly on molecular mechanisms of emerging contaminants and population dynamics under contamination. We also welcome papers on environmental microbiology, addressing fundamental interactions between environmental conditions and microorganisms, both ecology and molecular mechanisms; and the dynamics of microbial genes in the environment.

4) Environmental Technology (Prof. Thanh Huong (Helen) Nguyen)

The Environmental Technology section, overseen by Prof. He, responds to increasing attention on technological solutions which will lead to an improvement of our environment and quality of life in general. We will consider innovative research on, but not limited to: technologies for minimizing and treating contaminants, and/or maximizing recovery of valuable resources from wastes such as energy, nutrients, and water; technologies for sensing and monitoring the quality of water, air, and other environmental compartments; and technologies for analyzing emerging contaminants via chemical and microbiological methods. We welcome both applied and fundamental research that develops novel and innovative technologies with a strong environmental application potential, that address key limitations of existing technologies, and/or demonstrate technologies in the real world using methods with strong scientific merit. We are particularly interested in interdisciplinary research that connects environmental technologies to public and environmental health, resource recovery, social economics, and sustainability.

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Environmental scientists, ecotoxicologists, environmental chemists, environmental health specialists, environmental regulators, ecologists, biologists, hydrologists, geologists, marine and atmospheric scientists.

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Environmental Chemistry & Health, Risk Assessment; Human exposure; Exposure assessment; Human health effects; Biomarkers; Food safety; Biomonitoring; Indoor pollution; Emerging contaminants; Legacy contaminants; Wastewater epidemiology
Thanh Huong (Helen) Nguyen, University of Illinois at Urbana-Champaign, Champaign, Illinois, United States
Water and food safety; Disinfection; Water distribution system; Hydroponics; Aquaponics
Mark Nieuwenhuijsen, Centre for Research in Environmental Epidemiology, Barcelona, Spain
Public Health, Environmental Epidemiology & Health Impact Assessment; Environmental epidemiology; Environmental exposure assessment; Health impact assessment; Air pollution; Green space; Noise; Temperature; Built environment
Yongguan Zhu, Chinese Academy of Sciences, Beijing, China

Special Issue Editor
Da Chen, Jinan University, Guangzhou, China

Associate Editors

Environmental Chemistry & Health, Risk Assessment
Lesa L. Aylward, Summit Toxicology LLP Falls Church, Falls Church, Virginia, United States
Research Interests: Human biomonitoring; environmental epidemiology; exposure; risk assessment
Olga-Ioanna Kalantzi, University of the Aegean, Mytilini, Greece
Environmental Health, Human exposure to pollutants, Environmental Chemistry, Environmental Toxicology, Maternal and children's health
Martí Nadal, Pere Virgili Health Research Institute Laboratory Toxicology and Environmental Health, Reus, Spain
Heavy metals, Persistent Organic Pollutants, Polycyclic aromatic hydrocarbons, Emerging Pollutants, Human exposure, Health risk assessment, Waste management, Food toxicology, Dietary intake, Environmental monitoring, In-silico tools, Environmental toxicology
Shoji F. Nakayama, National Institute for Environmental Studies, Japan Environment and Children's Study Programme Office, Tsukuba, Japan
Research Interests: Public health, Environmental health, Children's environmental health; Biomonitoring, Exposome, Contaminants of emerging concern, Perfluoroalkyl substances (PFAS)
Heather Stapleton, Duke University, Durham, North Carolina, United States
Environmental Chemistry, Human Exposure, Children's Environmental Health, Metabolism and Biotransformation, Halogenated Persistent Pollutants, Endocrine Disruptors, Flame Retardant Use & Exposure, In Vitro Assays for Thyroid Disruption.

Environmental Processes, Quality, Toxicology & Microbiology
Hefa Cheng, Peking University, Beijing, China
Environmental geochemistry, Heavy metals, Environmental monitoring, Health risk assessment, Food safety, Soil pollution, Waste management, Environmental transport and fate of pollutants, Waste treatment and disposal
Frederic Coulon, Cranfield University, Cranfield, Bedford, 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

**Environmental Technology**

**Guo-Ping Sheng**, University of Science and Technology of China, Hefei, China
Biological wastewater treatment; Water reuse technique

**Public Health, Environmental Epidemiology & Health Impact Assessment**

**Hanna Boogaard**, Health Effects Institute, Boston, Massachusetts, United States
Air pollution epidemiology; Exposure assessment; Accountability research; Systematic reviews

**Zorana Jovanovic Andersen**, University of Copenhagen, Copenhagen, Denmark
Environmental epidemiology; Health effects related to air pollution exposure; Health effects related to road traffic noise exposure; Health effects related to wind turbine noise exposure; Health effects of green and blue spaces

**Xavier Querol**, Institute of Environmental Assessment and Water Research, Barcelona, Spain
Environmental geochemistry; Air quality; Atmospheric aerosols; Tropospheric ozone; Black carbon; Ultrafine particles; Metals; Organic pollutants; Inorganic gaseous pollutants, NO2, NO, NOx, SO2, SO3, CO, NH3; Source apportionment; Urban and regional pollution; Atmosphere and climate change; Air quality policy; Mobile, industrial, domestic and agricultural emissions of air pollutants; Leaching of industrial wastes; Impact of mining on environment; Recycling of industrial wastes; Coal use related pollution

**Associate Editor – Systematic Reviews**

**Paul Whaley**, Lancaster University, Lancaster, United Kingdom
Systematic review; Evidence mapping; Machine learning; Chemical risk assessment; Research standards

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Air pollution; Particulate matter; Environmental epidemiology; Exposure assessment; Cardiovascular disease

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Environmental Epidemiology, Emerging Environmental Contaminants (Plasticizers, Flame retardants, Phenols, and PFAS), Human Biomonitoring and Exposure Assessments, Children’s Health, Indoor Environments and Health

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Air pollution epidemiology; Cohort studies; Time series studies; Systematic review; Meta-analysis; Medical statistics

**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)

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Environmental Toxicology, Dioxin, Endocrine Disruptors, BPAs, Flame Retardants

**Julian Blasco**, Institute of Marine Science of Andalucia, Puerto Real, Spain
Marine ecotoxicology, trace metal biogeochemistry, marine pollution, nanotoxicity, pharmaceuticals, emerging pollutants
Michael Bloom, University at Albany Department of Environmental Health Sciences, Rensselaer, New York, United States

Research Interests: Environmental Epidemiology; Reproductive Epidemiology; Endocrine Disruptors

Bin Cao, Nanyang Technological University School of Civil and Environmental Engineering, Singapore, Singapore

Biofilms, Environmental Biotechnology, Environmental Microbiology

Andrea Capodaglio, University of Pavia, Pavia, Italy

Membrane bioreactors, Microbial Fuel Cells, Microbial Electrolytic Cells, Radiolysis, AORPs, Sustainability, Decentralized Wastewater Treatment, Resources Recovery, Energy Recovery, Nutrients Recovery

Nicole Cardello Deziel, Yale University School of Public Health, New Haven, Connecticut, United States

Exposure Science (environmental measurements, biomonitoring, geospatial models); pesticides; persistent organic pollutants; hydraulic fracturing

Bin Cao, Nanyang Technological University School of Civil and Environmental Engineering, Singapore, Singapore

Biofilms, Environmental Biotechnology, Environmental Microbiology

Andrea Capodaglio, University of Pavia, Pavia, Italy

Membrane bioreactors, Microbial Fuel Cells, Microbial Electrolytic Cells, Radiolysis, AORPs, Sustainability, Decentralized Wastewater Treatment, Resources Recovery, Energy Recovery, Nutrients Recovery

Nicole Cardello Deziel, Yale University School of Public Health, New Haven, Connecticut, United States

Exposure Science (environmental measurements, biomonitoring, geospatial models); pesticides; persistent organic pollutants; hydraulic fracturing

Corinne Charlier, CHU de Liege - Hospital Sart Tilman, Liege, Belgium

Kyungho Choi, Seoul National University Graduate School of Public Health, Seoul, Korea, Republic of

Research Interests: Environmental Toxicology, Endocrine Disruption, Thyroid Hormones, Phenolics, Personal Care Products

José G. Dórea, University of Brasilia, Brasilia, Brazil

Nutritional Sciences, Toxicology, Environmental Health & Risk Assessment, Environmental Research

Carlos G. Dosoretz, Technion Israel Institute of Technology Division of Environmental Water and Agricultural Engineering, Haifa, Israel

Advanced wastewater treatment and reuse, Effluents desalination, Biofouling, Micropollutants removal, Microbial degradation of toxic organic compounds

Raquel Duarte-Davidson, Public Health England, London, United Kingdom

Human health risk assessment, exposure assessment, organic chemicals (POB's, dioxins, PAHS), risk communication, contaminated land

Mingliang Fang, Nanyang Technological University, Singapore, Singapore

Metabolomics; Risk Assessment; Environmental Analytical Chemistry; Gut microbiome; Biomarkers; Exposome; Mixture Effect; Non-targeted identification

Yanzheng Gao, Nanjing Agricultural University, Nanjing, China

Organic contaminant; Soil-plant system; Soil contamination and remediation; Rhizosphere; Root exudates; Soil environmental chemistry; Bioremediation; Plant contamination

Yuming Guo, Monash University Department of Epidemiology and Preventive Medicine, Melbourne, Victoria, Australia

Environmental Epidemiology, Global Environmental Health, Air Pollution, Climate Change, Exposure Assessment, Biostatistics

Stuart Harrad, University of Birmingham, Birmingham, United Kingdom

Zhen (Jason) He, Washington University in St. Louis, Department of Energy, Environmental and Chemical Engineering, St. Louis, Missouri, United States

Water pollution and treatment, Environmental biotechnology, Resource recovery from wastes, Bioelectrochemical systems, Bioenergy, Membrane technology, Bioremediation, Desalination

Gerard Hoek, Utrecht University, Utrecht, Netherlands

Exposure assessment; Air pollution modelling; Environmental epidemiology

Barbara Hoffmann, University Hospital Dusseldorf Centre for Health and Society, Dusseldorf, Germany

Research Interests: Air pollution, noise, cardiovascular diseases, metabolic and neurocognitive impairment

Milena Horvat, Jozef Stefan Institute, Ljubljana, Slovenia

Environment and health: exposure and effects of chemicals in the environment; Human exposure; Human biomonitoring; Environmental sciences (e.g. biological and geochemical cycling of chemicals); Environmental analytical chemistry; Quality systems in chemical laboratories; Metrology in environmental and health studies

Ching-Hua Huang, Georgia Institute of Technology, Atlanta, Georgia, United States

Environmental chemistry; Water quality; Physicochemical treatment processes; Drinking water quality; Wastewater reuse; Contaminants of emerging concern; Reaction kinetics and mechanism

Eric D. van Hullebusch, Institute of Earth Physics of Paris, Paris, France

Resource Recovery, Solid Waste, Biological wastewater treatment, Bio-hydrometallurgy, Anaerobic Digestion, Biogeochemistry, Critical Elements

Xia Huo, Jinan University, Guangzhou, China

Exposure and children’s health; Early life exposure and health risk; Developmental toxicity

Guangming Jiang, University of Wollongong, School of Civil, Mining and Environmental Engineering, Wollongong, Australia

Environmental biotechnology; Environmental health; Sewage epidemiology; Micropollutants; Wastewater processes

Antarpreet Jutla, West Virginia University, Morgantown, West Virginia, United States
Water quality; Health; Forecasting; Water resources; Remote sensing; Statistical modelling; Climate change; Infectious disease

**Kurunthachalam Kannan**, New York University Department of Pediatrics, New York, New York, United States
Human biomonitoring; Exposure assessment; Emerging contaminants

**Holger Koch**, German Social Accident Insurance Fund Institute of Preventive and Occupational Medicine, Bochum, Germany
Research Interests: Human-Biomonitoring, Exposure Assessment, Risk Assessment, Endocrine Disruptors, Analytical Methods

**Judy LaKind**, LaKind Associates LLC, Catonsville, Maryland, United States
Human biomonitoring; Exposure assessment; Emerging contaminants

**Christopher Lau**, US Environmental Protection Agency National Health and Environmental Effects Research Laboratory, Research Triangle Park, North Carolina, United States
Characterizing the chemically induced reproductive toxicity and developmental toxicity during embryonic and perinatal life stages, understanding of their modes of action, and applying such information to human health risk assessment

**Robert Letcher**, Environment and Climate Change Canada National Wildlife Research Centre, Ottawa, Ontario, Canada
Organohalogen pollutants, Environmental Chemistry, Analytical and Bioanalytical Chemistry, Ecological Chemistry, Ecotoxicology, Metabolism and Biotransformation, Biomarkers, Endocrine Disruption, Marine and Freshwater, Wildlife and Ecosystems, Arctic

**Dan Li**, Fudan University, Shanghai, China
Toxicology, genotoxicity, telomeres, PCBs, PAHs, Benzene, Quinones, mechanisms-of-action

**Lena Ma**, Zhejiang University College of Environment and Resources Studies, Hangzhou, China
Biogeochemistry of trace metals in soils, wastes, and plants; Soil contamination and remediation; Metal bioavailability and bioaccessibility; Metal exposure and human health; Plant metal uptake and transport

**Mandana Mazaheri**, New South Wales Department of Planning and Environment, Sydney, Australia
Urban air quality; Human and environmental exposures; Green spaces and their health impacts

**Lidia Mínguez-Alarcón**, Harvard University T H Chan School of Public Health, Boston, Massachusetts, United States
Endocrine Disrupting Chemicals; Interactions diet-chemicals; Environmental mixtures; Environmental epidemiology; Reproductive epidemiology; Male infertility

**Luke Naeher**, The University of Georgia, Athens, Georgia, United States
Diffuse microbial pollution from agriculture; modelling & decision support in environmental systems; fate & transfer of human pathogens; recreational water quality

**Spyros G. Pavlostathis**, Georgia Institute of Technology, Atlanta, Georgia, United States
Environmental biotechnology; Bioprocess engineering; Wastewater treatment; Anaerobic digestion; Biotransformation; Bioremediation; Bioenergy and biofuels; Bioelectrochemical systems; Kinetics and modeling

**Nuno Ratola**, University of Porto, Porto, Portugal
Environmental presence and behaviour of legacy and emerging organic contaminants; Biomonitoring and chemical transport of chemicals; Advanced analytical techniques of extraction and quantification; Field sampling campaigns and sample handling protocols; Exposure assessment and prioritisation of relevant compounds; Climate change scenarios

**Benoit Roig**, University of Nimes, Nimes, France
Gene expression Omics

**Matthew Scotch**, Arizona State University Biodesign Institute Center for Environmental Security, Tempe, Arizona, United States
Molecular epidemiology, Genomic epidemiology, RNA viruses, bioinformatics, public health surveillance, influenza

**Heqing Shen**, Institute of Urban Environment Chinese Academy of Sciences, Xiamen, China
Biological monitoring (Bio-monitoring); Endocrine disrupting chemicals; Human microbiome; Birth cohort; Male fertility; Biomarkers; Epigenetics; OMICS with emphasis toxicometabolomics

**Luis Felipe Silva Oliveira**, University Corporation of the Coast Department of Civil and Environmental Engineering, Barranquilla, Colombia
Nanothechnology in Real Samples (in special nanominerals and advanced electron beam); Soil and water researches; Atmosphere impacts (in special particulate matter)  
**Christian Sonne**, Aarhus University Department of Environmental Science, Roskilde, Denmark  
Biological effects, environmental chemicals, infectious diseases, climate change, veterinary science, wildlife medicine, predatory mammals, raptorial birds, sea birds, fish, internal organs, reproductive organs, histopathology, morphology, skeletal system, bone density, immune system, endocrinology, PBPK modelling, blood biochemistry, implantation of PTT satellite transmitters, immobilization.  
**Massimo Stafoggia**, Local Health Authority Rome 1 Department of Epidemiology, Rome, Italy  
Exposure assessment; statistical methods; air pollution; epidemiology; study design  
**Ashlynn S. Stillwell**, University of Illinois at Urbana-Champaign, Champaign, Illinois, United States  
Water resources; Energy systems; Policy; Urban water; Sustainability  
**Nico M. van Straalen**, VU Amsterdam, Amsterdam, Netherlands  
**Guanyong Su**, Nanjing University of Science and Technology, Nanjing, China  
Analytical Chemistry, Ecotoxicology, Molecular Toxicology, Environmental Monitoring, Risk Assessment, Human studies, Organic Contaminates, Flame Retardants, Urinary Biomarkers, Metabolites, Gas Chromatography-Mass Spectrometry (GC-MS), Lipid Chromatography-Mass Spectrometry (LC-MS)  
**Phong K. Thai**, The University of Queensland Queensland Alliance for Environmental Health Sciences, Woolloongabba, Queensland, Australia  
Wastewater analysis; Water quality; Air quality; Air pollution; Environmental monitoring; Environmental health  
**Shilu Tong**, Shanghai Jiao Tong University - Fahua Campus, Shanghai, China  
Environmental epidemiology, climate change, planetary health, sustainable development, quantitative risk assessment, spatiotemporal modelling  
**Angel del Valls**, University of Cadiz, Cadiz, Spain  
**Marc-Andre Verner**, University of Montreal, Montreal, Quebec, Canada  
Exposure assessment, pharmacokinetic modeling, environmental epidemiology, persistent organic pollutants, risk assessment  
**Jun Wu**, University of California Irvine, Irvine, California, United States  
**Zuxin Xu**, Tongji University, Shanghai, China  
Modelling & decision support in environmental systems; Urban and regional water quality; Water pollution control of river system; Urban sewage system planning; Aquatic Ecosystem management  
**Zhiguo Yuan**, The University of Queensland Advanced Water Management Centre, St.Lucia, Queensland, Australia  
Wastewater, Sewer, Resource recovery, Modelling, control  
**Kai Zhang**, The University of Texas Health Science Center at Houston Department of Epidemiology Human Genetics and Environmental Sciences, Houston, Texas, United States  
Air quality; Built Environment; Climate Change and Health; Environmental and Occupational Epidemiology; Exposure assessment; Exposome; GIS; Urban Health; Statistics  
**Yinping Zhang**, Tsinghua University, Beijing, China
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