DESCRIPTION

*Environment International* is a multi-disciplinary, Open Access journal publishing high quality and novel information within the broad field of 'Public and Environmental Health 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 Toxicology and Biodiversity, Environmental Processes (Prof. Frederic Coulon)
4) Environmental Technology for Environmental Health Protection (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 as they have strong environmental health applicability and relevance and if they discuss 'interactions between the environment and humans' in the broadest sense.

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

The section overseen by Prof. Nieuwenhuijsen covers 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 the 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 environmental and health risk assessment, modelling and impact of chemicals of emerging concern on human exposure and human exposome in general. We also welcome novel and innovative approaches for human biomonitoring, human exposome 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 are also interested to receive innovative papers investigating the link between ecosystem health and human health and their input on chemicals policy and regulation. We strongly encourage the submission of systematic reviews related to environmental and human health risk assessment.

3) Environmental Toxicology and Biodiversity, Environmental Processes (Prof. Frederic Coulon)
The section overseen by Prof. Coulon covers functioning ecosystems with a focus on environmental processes and human activities on biodiversity disturbance in the context of human and environmental health. We particularly welcome novel and innovative research submissions addressing biogeochemical processes in terrestrial and aquatic ecosystems, and their influence on the status and fate of contaminants. We also welcome novel areas of environmental toxicology studies, particularly on the chemical and molecular mechanisms of emerging contaminants and population dynamics under contamination. We also welcome innovative and novel topics addressing fundamental interactions between environmental health and biodiversity, in the context of human and environmental health.

4) Environmental Technology for Environmental Health Protection (Prof. Thanh Huong (Helen) Nguyen)
The Environmental Technology section, overseen by Prof. Nguyen, responds to increasing attention on technological solutions which will lead to an improvement of Public and Environmental Health. We are particularly interested in interdisciplinary research that connects environmental technologies to public and environmental health, resource recovery, social economics, and sustainability. We 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 analysing emerging contaminants via chemical and microbiological methods. We welcome both applied and fundamental research that develops innovative technologies with a strong potential for public and environmental health protection, that address key limitations of existing technologies, and/or demonstrate technologies in the real-world using methods with strong scientific merit.

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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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Adrian Covaci, University of Antwerp Toxicological Centre, Wilrijk, Belgium
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 Urbana-Champaign, Urbana, Illinois, United States of America
Water and food safety, Disinfection, Water distribution system, Hydroponics, Aquaponics

Mark Nieuwenhuijsen, Barcelona Institute for Global Health (ISGlobal) and Barcelona Biomedical Research Park (PRBB), Barcelona, Spain
Public Health, Environmental Epidemiology and Health Impact Assessment Environmental epidemiology, Environmental exposure assessment, Health impact assessment, Air pollution, Green space, Noise, Temperature, Built environment

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Judy LaKind, LaKind Associates LLC, Catonsville, Maryland, United States of America

Associate Editors

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Environmental chemistry, Analytical chemistry, Ecotoxicology, Persistent organic pollutants, Flame retardants, Pesticides, Mass spectrometry, Gas/liquid chromatography
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Exposure Science (environmental measurements, biomonitoring, geospatial models, pesticides, persistent organic pollutants, fossil fuels
Olga-Ioanna Kalantzi, University of the Aegean, Mytilini, Greece
Environmental Health, Human exposure to pollutants, Environmental Chemistry, Environmental Toxicology, Maternal and children's health
Xing-Fang Li, University of Alberta, Edmonton, Alberta, Canada
HPLC-MS, Water disinfection byproducts, Toxicology, Water Disinfection byproducts, Analytical and Environmental Toxicology
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)
Marc-André Verner, University of Montreal, Montréal, Quebec, Canada
Exposure assessment, Pharmacokinetic modeling, Predictive toxicology, Biomonitoring, Environmental epidemiology

Environmental Toxicology and Biodiversity, Environmental Processes
Hefa Cheng, Peking University, Beijing, China
Environmental geochemistry, Heavy metals, Environmental monitoring, Health risk assessment, Soil pollution, Environmental transport and fate of pollutants, Waste treatment and disposal
Kyung Ho Choi, Seoul National University Graduate School of Public Health, Seoul, South Korea
Research Interests, Endocrine disrupting chemicals, thyroid hormones, neurotoxicity, consumer chemicals, environmental toxicology, exposure assessment
Albert Juhasz, University of South Australia, Adelaide, Australia

Environmental Technology for Environmental Health Protection
Guo-Ping Sheng, University of Science and Technology of China, Hefei, Anhui, China
Biological wastewater treatment, Water reuse technique

Public Health and Health Impact Assessment, Environmental Epidemiology
Hanna Boogaard, Health Effects Institute, Boston, Massachusetts, United States of America
Air pollution epidemiology; Exposure assessment; Accountability research; Systematic reviews
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Environmental Epidemiology, Global Environmental Health, Air Pollution, Climate Change, Exposure Assessment, Biostatistics
Zorana Jovanovic Andersen, University of Copenhagen, København, 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
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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, Geochemistry, air quality

Associate Editors – Systematic Reviews
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Health Risk Assessment, Regulatory toxicology, Methodology, Environmental health, Evidence synthesis methods, Systematic reviews, Data quality assessment, Weight-of-evidence, Metals, Phthalates, Persistent Organic Pollutants, PFAS

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Multiple stressor ecology and ecotoxicology, food web and ecosystem natural and contaminant dynamics, population and ecosystem effects of anthropogenic stressors, biomonitoring and sentinel species, multiple stressor and ecological risk assessment, system and spatiotemporal dynamics.

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Environmental Exposure, Metabolomics, Exposome, Environmental Toxicology, Mixture Effect

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

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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

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Biological monitoring (Bio-monitoring); Endocrine disrupting chemicals; Human microbiome; Birth cohort; Male fertility; Biomarkers; Epigenetics; OMICS with emphasis toxicometabolomics

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Nanothechnology in Real Samples (in special nanominerals and advanced electron beam), Soil and water researches, Atmosphere impacts (in special particulate matter)

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Environmental toxicology, Human exposure, Human health and risk assessment, Chemical mixtures, Reproductive toxicology, Biomarkers, Chemical toxicity, Environmental chemical exposure

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Zhiguo Yuan, City University of Hong Kong School of Energy and Environment, Hong Kong, Hong Kong
Wastewater, Sewer, Resource recovery, Modelling, Control

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Exposure science, Air quality, Exposome, Epidemiology, Health impact assessment, Social determinants, Environmental justice, GIS, Statistics, AI, and Data science.

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Building environment, Heat and mass transfer, Indoor air quality and health
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3. Short Communications (formerly known as 'New Developments') are concise articles presenting the latest developments in scientific, technological and policy developments. On average, a text length (excluding references) of about 3000 words is required. Readers are encouraged to suggest subjects for inclusion in this section. Since the journal will serve a multidisciplinary audience, authors are urged to write for non-specialists. In particular, they are discouraged from using expressions that are comprehensible only to a select audience.

4. Correspondence is encouraged. Opinions, perspectives and insight on articles published in Environment International are very welcome. Authors may be invited to submit a Reply to respond to points raised. The Editor will decide on the publication of Correspondence and Replies based on scientific merit, importance to the raised issues, and interest to the general audience. Correspondence and Replies of an unprofessional or unscientific nature, or containing personal invective, will not be considered.

5. Systematic Reviews and related article types Systematic Evidence Maps, Protocols and Synthesis Methods. These article types aim to provide comprehensive summaries of existing evidence as it relates to answering a research question, conducted using methods that seek to minimize bias in results and conclusions. Since we have several relatively unique requirements for systematic reviews and evidence maps, authors should consult the detailed Guidance notes specific to these submission types.

6. Editorial articles are published by the Editor-in-Chief or other Editors, members of the Editorial Board or invited Guest Editors. These focus attention on contemporary important environmental issues and are designed to stimulate debate and discussion.

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