ENVIRONMENTAL POLLUTION

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DESCRIPTION

*Environmental Pollution* welcomes high quality submissions on all aspects of environmental pollution and the mitigation measures related to ecosystem & human health.

AUDIENCE

Pollution research workers including chemists, toxicologists, environmentalists, conservationists, botanists, marine scientists, ecologists, biologists.

IMPACT FACTOR

2018: 5.714 © Clarivate Analytics Journal Citation Reports 2019

ABSTRACTING AND INDEXING

PubMed/Medline
Environmental Periodicals Bibliography
Current Contents - Agriculture, Biology & Environmental Sciences
Science Citation Index
AGRICOLA
Energy Information Abstracts
Embase
Air Pollution Control Association Journal
Biological and Agricultural Index
GeoSciTech
Web of Science
Scopus

EDITORIAL BOARD

*Co-Editors-in-Chief*
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.

**Eddy Zeng**, Jinan University, Guangzhou, China
Persistent organic pollutants; Bioaccumulation; Human exposure; Health risk assessment; Inter-compartmental diffusion flux; Passive sampling; Wet and dry deposition

**Special Issue Editor**

**Jörg Rinklebe**, University of Wuppertal, Wuppertal, Germany

**Editors**

**Da Chen**, Jinan University, Guangzhou, China
Environmental chemistry; Analytical chemistry; Ecotoxicology; Persistent organic pollutants; Flame retardants; Pesticides; Mass spectrometry; Gas/liquid chromatography.

**Wen Chen**, Sun Yat-Sen University, Guangzhou, China
Environmental Toxicology; Chemical Carcinogenesis; Epigenetic Regulation; Biomarkers

**Payam Dadvand**, Barcelona Institute for Global Health, Barcelona, Spain
Epidemiological studies on the health effects of environmental factors.

**Maria Cristina Fossi**, University of Siena, Siena, Italy
Marine Pollution; Persistent Organic Contaminants; Aquatic Toxicology; Microplastic; Plastic, Marine Litter; Ecotoxicological biomarkers; Marine Mammals; Large marine vertebrates; Endocrine disruptors.

**Sarah Harmon**, University of South Carolina Aiken, Aiken, South Carolina, United States
Aquatic toxicity; Water pollution; Heavy metals toxicity; Fecal coliform pollution; Mercury toxicity.

**Markus Hauck**, University of Freiburg Faculty of Environment and Natural Resources, Freiburg, Germany
Global change ecology; Climate warming; Eutrophication; Acidic deposition; Heavy metals in terrestrial ecosystems; Land use; Lichen biology; Forest ecology

**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

**Klaus Kümmere**, Leuphana University of Lüneburg Institute for Sustainable and Environmental Chemistry, Lüneburg, Germany
Sustainable Chemistry; Green Chemistry; Green and Sustainable Pharmacy; Resources; Benign by Design; Environmental Chemistry; Time and sustainability

**Bernd Nowack**, Empa Technology and Society Laboratory, St Gallen, Switzerland
Nanomaterials, nanoparticles, microplastics, soil pollution, environmental risk assessment, life cycle assessment, chelating agents

**Yong Sik Ok**, Korea University, Korea Biochar Research Center, Chuncheon, Korea, Republic of
Biochar, Resilience, Soil remediation, Biomass, Bioenergy

**Jörg Rinklebe**, University of Wuppertal, Wuppertal, Germany
Soils, sediments, waters, plants, and their pollutions (in particular trace elements and nutrients) and linked biogeochemical issues with a special focus in redox chemistry; Remediation of soils and soil microbiology.

**Philip Smith**, TEXAS TECH UNIVERSITY, Lubbock, Texas, United States
Ecotoxicology, ecological risk assessment, wildlife toxicology.

**Admir Crésio Targino**, Federal Technological University of Parana Department of Physics, Londrina, Brazil
Air pollution in urban environments; Personal exposure to air pollutants; Urban climate; Aerosol measurement instrumentation; Short-lived climate pollutants; Long-range atmospheric transport

**Wen-Xiong Wang**, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
Metals, Ecotoxicology, Pollution, Biogeochemistry, Nanotoxicology

**Charles Wong**, Southern California Coastal Water Research Project, Costa Mesa, California, United States
Environmental organic chemistry, persistent organic chemicals, pharmaceuticals and personal care products, metabolites and transformation products, environmental/analytical chemistry, passive samplers, wastewater, ecotoxicology, bioaccumulation and food web interactions.

**Baoshan Xing**, University of Massachusetts Amherst Stockbridge School of Agriculture, Amherst, Massachusetts, United States
Engineered Nanoparticles; Organic Contaminants; Biochar; Soil Organic Matter; Sorption Of Organic Chemicals; nano/microplastic particles

**Editorial Board**

**Dula Amarasingirwadene**, Hampshire College, Amherst, Massachusetts, United States
Metal Pollution, environmental trace metal determination (ICP-MS, LA-ICP-MS), metal chemical speciation, toxic metals in soils, tissue level, elemental bioimaging, nanoparticles in environment, environmental remediation-metals, humic substances in the environment.

Lian-Jun Bao, Jinan University, Guangzhou, China
E-waste, flame retardants, organic chemicals, PAHs, microplastics.

Allen Barker, University of Massachusetts Amherst Department of Plant Soil and Insect Sciences, Amherst, Massachusetts, United States

Nigel Bell, Imperial College London, London, United Kingdom
Effects of air pollution on managed and natural ecosystems; radioecology; waste management.

Man Yu Bon, The Education University of Hong Kong, New Territories, Hong Kong
Persistent toxic substances; Soil contamination; Environmental pollution of electronic waste; Health risk assessments; Recycling of food waste

Juergen Burkhardt, University of Bonn, Germany

Art Chappelka, 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

Alessandra De Marco, ENEA Casaccia Research Centre, Santa Maria di Galeria, Italy
Impacts of air pollution on vegetation, with particular interest on ozone and nitrogen deposition; climate change and air pollution interactions and their synergistic impacts on ecosystems; integrated assessment modelling for evaluating impacts of policies and measures to reduce air pollution; nitrogen cycle and nitrogen budget and their importance in agricultural field

Jean-Pierre Desforges, Aarhus University, Aarhus, Denmark
Marine mammals, immunotoxicity, ecologic modeling, population dynamics

Marisa Domingos, Brazilian Association of Environmental Mutagenesis and Genomics, Monte Alegre, Ribeirão Preto, Brazil
Environmental pollution and climatic change effects on natural vegetation, particularly in the tropics and subtropics, air-plant-soil interactions in polluted terrestrial ecosystems, physiologic, metabolic, structural/ultrastructural markers of increased plant tolerance against air pollutants and other environmental stressors, disturbances on nutrient dynamics in polluted terrestrial ecosystems, physiognomic/landscape disturbances in polluted terrestrial ecosystems, the search of innovative biomonitoring technics for evaluating risks posed by air pollutant, ozone, nitrogen and sulfur oxides, particulate matter, fluorine, trace metals, polycyclic aromatic hydrocarbons

Paulo Renato Dorneles, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil
Ecology of pollutant exposure, sustainable and safe fisheries; mercury pollution, marine mammals

Zafar Fatmi, Aga Khan University, Karachi, Pakistan
Environmental epidemiology; air pollution; cognitive effects of air pollution; risk assessment, health effects of heavy metals

Bin Gao, University of Florida, Gainesville, Florida, United States
Biochar, nanoparticles, environmental nanotechnology, contaminant fate and transport, organics

Martin Hansen, Aarhus University, Aarhus, Denmark
Hormone-disrupting chemicals, endocrine disruptors, organic pollutants, exposome, metabolome and proteome in animal studies

Frank von Hippel, Northern Arizona University, Flagstaff, Arizona, United States
Perchlorate, OC pesticides, PCBs, PBDEs, PFCs, toxic metals (mercury, manganese, copper, arsenic) Ecotoxicology research incorporates molecular (gene expression), organismal (endocrine disruption, developmental disruption, behavior), and ecological approaches (stable isotopes) to solve problems in conservation biology and environmental health. A critical component of several of my larger research projects is community-based participatory research (CBPR) with indigenous people.

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

Magali Houde, Environment and Climate Change Canada, Downsview, Ontario, Canada
Aquatic ecotoxicology, organic pollutants, toxicogenomics, biological effects, zooplankton and fish, bioaccumulation, impacts of waste water treatment plant effluent, emerging flame retardants, polyfluoroalkyl substances, marine mammals

Paul Jagals, University of Queensland, Brisbane, Queensland, Australia
Environmental risk assessment and impact assessment, health-related water quality, waste and sanitation, translating environmental health research into policy and practice

M.P. Jonathan, National Polytechnic Institute, Ciudad de Mexico, Mexico
Harri Kankaanpaa, Marine Research Institute, HELSINKI, Finland
Haider Khwaja, New York State Department of Health, Albany, New York, United States
Air pollution, black carbon, particulate matter, Asian megacities, water contamination
Chunyang Liao, Yantai Institute of Coastal Zone Research, Yantai, China
Emerging organic contaminants, endocrine disrupting chemicals, pesticides, environmental analytical chemistry, environmental behavior and fate, bioavailability, toxicological effects, and risk assessment
Daohui Lin, Zhejiang University, Hangzhou, China
Nanomaterials; Ecotoxicity; Nanotoxicity; Bioavailability; Colloidal behavior; Sorption
Rainer Lohmann, University of Rhode Island Coastal Institute, Narragansett, Rhode Island, United States
Passive samplers, POPs, sorption, bioaccumulation, atmospheric chemistry, marine pollution, long-range transport, oceans, black carbon, organic geochemistry.
Lisbeth Lopez-Carrillo
Epidemiology, breast cancer, arsenic, persistent organic pollutants, diet.
Stefano Loppi, University of Siena, Siena, Italy
Air quality, Air pollution, Biomonitoring, Biodiversity, Heavy metals, Lichens, plants
Michael Lydy, Southern Illinois University Carbondale, Carbondale, Illinois, United States
Pesticides, toxic effects on aquatic systems, pyrethroid insecticides, bioavailability, desorption-based samplers, sediment-associated organic contaminants, honey bees declines.
Melissa A. McKinney, McGill University Department of Natural Resource Sciences, Sainte-Anne-De-Bellevue, Quebec, Canada
Ecological change, environmental stressors, wildlife toxicology, fish, land and marine mammals
Denise Mitran, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland
Water quality analysis, analytical method development, nanomaterials, microplastics (including nanoplastic, microplastic fibers), life cycle thinking
Kunihiko Nakai, Tohoku University, Sendai, Japan
Heavy metals, persistent organic pollutants, epidemiology, birth cohort studies, risk assessment/analysis, methylmercury, Minamata convention
Willie Peijnenburg, Leiden University Institute of Environmental Sciences, Leiden, Netherlands
Risk assessment; Ecological risk assessment; Environmental fate and effect assessment; Nanoparticles; Bioavailability; Metals; Organics; Quantitative structure-activity relationships (QSARs); Transformation of chemical substances; Biodegradation; Abiotic transformations
Elijah J. Petersen, National Institute of Standards and Technology, Cell Systems Science Group, Gaithersburg, Maryland, United States
Nanomaterials, carbon nanomaterials, standardization, nanoecotoxicity, carbon nanotubes.
Stergios Pirintsos, University of Crete Voutes Campus, Iraklion, Crete, Greece
Biomonitoring of air pollution, trace elements and nitrogen using lichens, climate change issues and lichens, lichens and hydrogen production, lichen physiology and pollution, sensitivity issues of lichens, lichen diversity and vegetation in Mediterranean ecosystems.
Hakan Pleijel, University of Gothenburg, Gothenburg, Sweden
Ozone (effects on vegetation), carbon dioxide (effects on vegetation), urban ecology (especially air pollution in relation to vegetation), temporal and spatial variation in air pollution exposure, crops (especially effects of air pollutants on growth and nutrient content), deposition of air pollutants, weather and climate dependence of air pollution, climate change effects on crops.
Markus Puschenreiter, University of Natural Resources and Life Sciences Vienna, Wien, Austria
Heavy metals/trace elements in soils and plants, rhizosphere processes involved in metal/trace element acquisition, soil remediation technologies / phytoremediation
Sabry M. Shaheen, University of Wuppertal, Wuppertal, Germany
Heavy metals, trace elements, soil and environmental science, waste management, risk assessment.
Richard Shore, Centre for Ecology and Hydrology Lancaster, Lancaster, United Kingdom
Stefania Squizzato, University of Rochester, Rochester, New York, United States
Atmospheric Sciences, focusing on the identification of sources in different PM fractions, application of statistical tools to the study of air pollution, particulate matter sampling and analytical determination of inorganic composition using IC, ICP-OES and ICP-MS
John Ssempebwa, Makerere University, Kampala, Uganda
Environmental pollution, PAHs, water and sanitation, occupational health
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.
Jason Unrine, University of Kentucky, Lexington, Kentucky, United States
Nanomaterials, metals, soils, contaminant fate, bioavailability, agriculture, ecosystem services, radionuclides, synchrotron methods

**Doris Vetterlein**, Helmholtz Centre for Environmental Research UFZ Department of Soil System Research, Halle, Germany

**Courtney Waugh**, Norwegian University of Science and Technology, Trondheim, Norway

Toxicology, disease and immunology of wild, captive and domestic animals

**Yanhong Wei**, Sun Yat-Sen University, Guangzhou, China

Persistent organic pollutants, zebrafish, cardiovascular toxicology, developmental toxicology, toxicity pathways

**Jason White**, Connecticut Agricultural Experiment Station, New Haven, Connecticut, United States

Nanotoxicology, food safety, bioremediation and phytoremediation.

**Paul Williams**, Chinese Academy of Sciences, Beijing, China

Toxic trace elements, 2D high-resolution chemical imaging, rhizosphere chemistry, soil-plant interactions, diffusive gradients in thin films (DGT), arsenic/selenium biogeochemistry, bioavailability of metals, human health impacts of arsenic, cadmium and lead, urban & sustainable agriculture, advanced analytical approaches for contaminant quantification, soil & water pollution.

**Feng Xiao**, University of North Dakota, Grand Forks, North Dakota, United States

Perfluorochemicals (PFCs) and perfluoroalkyl substances (PFASs); Perfluorooctanoate (PFOA) and perfluorooctane sulfonate (PFOS); Biochar, char, soot, black carbon, and activated carbon, absorption, water chemistry, drinking-water treatment, emerging contaminants and environmental monitoring, geographic Information system; exploratory data analysis; exposure assessment.

**Scott Young**, University of Nottingham, Nottingham, United Kingdom

Bioavailability, speciation and mobility of trace metals and radioisotopes in the environment and specifically with the geochemical controls over trace element deficiency and toxicity.

**Yunjiang Yu**, South China Institute of Environmental Science, Guangzhou, China

Environmental occurrence and fate of emerging contaminants, ecological toxicology of pollutants, risk assessment of chemicals

**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

**Fangjie Zhao**, Nanjing Agricultural University, Nanjing, China

Biogeochemistry of trace elements, uptake and detoxification of heavy metals in plants, bioremediation.

**Jian Zhao**, Ocean University of China, Qingdao, China

Nanomaterials, adsorption organics; PPCPs, colloidal chemistry, microplastics, aquatic toxicology, environmental transformation.

**Qing Zhao**, Chinese Academy of Sciences, Beijing, China
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