Environmental Pollution is an international peer-reviewed journal that publishes high quality research papers and review articles about all aspects of environmental pollution and its effects on ecosystems and human health. The journal welcomes high-quality process-oriented and hypothesis-based submissions that report results from original and novel research and contribute new knowledge to help address problems related to environmental pollution at a regional or global scale.

Subject areas include, but are not limited to:
- Sources and occurrences of pollutants that are clearly defined and measured in environmental compartments, food and food-related items, and human bodies;
- Interlinks between contaminant exposure and biological, ecological, and human health effects, including those of climate change;
- Contaminants of emerging concerns (including but not limited to antibiotic resistant microorganisms or genes, microplastics/nanoplastics, electronic wastes, light, and noise) and/or their biological, ecological, or human health effects;
- Laboratory and field studies on the remediation/mitigation of environmental pollution via new techniques and with clear links to biological, ecological, or human health effects;
- Modeling of pollution processes, patterns, or trends that is of clear environmental and/or human health interest;
- New techniques that measure and examine environmental occurrences, transport, behavior, and effects of pollutants within the environment or the laboratory, provided that they can be clearly used to address problems within regional or global environmental compartments.

Papers focusing on the following areas are likely to be returned to the authors without review:
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- Descriptions of well-known contaminants, such as legacy pollutants, in yet another location;
- Studies relating to waste treatment that do not have specific relevance to pollution within the environment;
- Synthesis/fabrication of new materials solely for remediation and/or mitigation of pollution without any direct environmental relevance;
- Nitrogen or phosphorus deposition or biogeochemical processes with little or no relation to environmental consequences and/or climate change;
- Studies on eutrophication and secondary pollution by eutrophication without illuminating their governing mechanisms and factors;
• Studies within which the concentrations of toxicants used are higher than those that are typically found in an environmental pollution context. Authors of toxicology studies must justify the concentrations that they are using by reference to environmentally relevant concentrations that have been reported in the literature.

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

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Adsorption, Biosorption, Wastewater treatment, (Micro)algae biorefinery, Resource recovery, Biomaterials, Nanomaterials, Carbon-based materials, Biochar, Nano-cellulose, Organic pollutants, Metals, Nutrients

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

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Environmental Toxicology, Chemical Carcinogenesis, Epigenetic Regulation, Biomarkers

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

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

Jiayin Dai, Shanghai Jiao Tong University School of Environment Science and Engineering, Shanghai, China
The distribution, fate, and sources and toxicity of emerging contaminants, especially perfluorooalkyl substances (PFASs)

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

Mingliang Fang, Fudan University, Shanghai, China
Environmental Exposure, Metabolomics, Exposome, Environmental Toxicology, Mixture Effect

Yucheng Feng, Auburn University, Department of Crop Soil and Environmental Sciences, Auburn, Alabama, United States of America
Soil microbiology, Fecal pollution of surface water, Biodegradation and bioavailability of organic pollutants, Pesticides, Plant-soil-microbial interaction

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.

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Aquatic toxicology, Water pollution, Heavy metals toxicity, Fecal coliform pollution, Mercury toxicity.

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Control, monitoring and prediction of human health effects and environmental impact of chemical contamination, analysis, exposure assessment and risk characterization of heavy metals, persistent organic pollutants (POPs) and emerging pollutants, food toxicology, biomonitoring and ecotoxicology.
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Adsorption of pollutants, Environmental redox processes, Soil and groundwater remediation, Biochar synthesis and application, Multi-functional materials

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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 of America
Engineered Nanoparticles; Organic Contaminants; Biochar; Soil Organic Matter; Sorption Of Organic Chemicals; nano/microplastic particles

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Marine mammals, immunotoxicity, population dynamics, ecological modeling, ungulates, ecotoxicology, biomarkers, physiological ecology.

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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

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Environmental epidemiology; air pollution; cognitive effects of air pollution; risk assessment, health effects of heavy metals
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Biochar, Environmental Nanotechnology, Contaminant Fate and Transport

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Exposome, Environmental chemistry and toxicology, Analytical chemistry, Environmental health sciences, Gene-environment interaction

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Frank von Hippel, Northern Arizona University, Flagstaff, Arizona, United States of America
Perchlorate, OC pesticides, PCBs, PBDEs, PFAS, toxic metals.

Steven Sai Hang Ho, Desert Research Institute, Reno, Nevada, United States of America

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, Montreal, Canada
POPs, PFAS, flame retardants, emerging compounds, Bioaccumulation/biomagnification, Toxicogenomics, Arctic Marine mammals

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Soil chemistry, soil contamination and remediation, nutrient management in ecosystem, phytoremediation, biogeochemistry

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Air pollution, black carbon, particulate matter, Asian megacities, water contamination

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Metals and metalloids behavior in the environment, Environmental soil chemistry, Adsorption and surface complexation modeling, Environmental isotope geochemistry

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Urban air pollution, on-road vehicle emissions, impact of short-lived climate pollutants on personal exposure, and characterization of urban heat islands.

Jurate Kumpiene, Lulea University of Technology, Luleå, Sweden
Risk assessment of contaminated sites, Trace element pollution of soil and groundwater, Soil remediation techniques, Immobilization of trace elements, Bioavailability, Waste treatment and waste recycling to soil

Rock Keey Liew, Universiti Malaysia Terengganu, Pyrolysis Technology Research Group, Terengganu, Malaysia
Microwave Heating Applications, Thermochemical Processes, Desalination, Waste and Biomass Recovery, and Water and Wastewater Treatment

Daohui Lin, Zhejiang University Library, Hangzhou, China
Nanomaterials; Ecotoxicity; Nanotoxicity; Bioavailability; Colloidal behavior; Sorption

Rainer Lohmann, University of Rhode Island Coastal Institute, Narragansett, Rhode Island, United States of America
PFAS, POPs, Passive sampler, Fate and transport, Bioaccumulation

Lisbeth Lopez-Carrillo
Epidemiology, breast cancer, arsenic, persistent organic pollutants, diet.

Stefano Loppi, University of Siena, Siena, Italy
Bioindication, Air quality, Lichens, Biomonitoring, Bioaccumulation

Michael Lydy, Southern Illinois University Carbondale, Carbondale, Illinois, United States of America
Pesticides, toxic effects on aquatic systems, pyrethroid insecticides, bioavailability, desorption-based samplers, sediment-associated organic contaminants, honey bees declines

Jürgen Mahlknecht, Tecnológico de Monterrey, Monterrey, Mexico
Water quality, Hydrogeochemistry, Groundwater pollution, Environmental tracers, Environmental isotopes, Microcontaminants

Lei Mai, Jinan University, Guangzhou, China
Microplastics, persistent organic pollutants (POPs), analytical method development of environmental microplastics, sorption of organic chemicals, effects of microplastics, fate and transport of microplastics in aquatic environments

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 Mitrano, Eawag 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

Amitava Mukherjee, VIT University Centre for NanoBiototechnology, Vellore, India

Photo catalytic Nanomaterials, Nano-remediation of Emerging Pollutants, Nano-biosensors for Environmental Contaminants, Protein-Nanomaterials Interactions, Green synthesis of Nanomaterials, Nanotoxicology, Safe and Secure Design nanomaterials

Kunihiko Nakai, Tohoku University, Sendai, Japan

Heavy metals, persistent organic pollutants, epidemiology, birth cohort studies, risk assessment/analysis, methylmercury, Minamata convention

Bernd Nowack, EMPA Swiss Federal Laboratories for Materials Science and Technology, DUEBENDORF, Switzerland

Nanomaterials, micro- and nanoplastics, advanced materials, environmental risk assessment, release assessment, exposure, hazard and risk modeling, Safe and Sustainable by Design (SSbD)

Yong Sik Ok, Korea University, Seongbuk-gu, South Korea

Environment and Ecology, Cross Field, Engineering

Elijah J. Petersen, National Institute of Standards and Technology, Cell Systems Science Group, Gaithersburg, Maryland, United States of America

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, Göteborg, 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.

Binoy Sarkar, University of South Australia - Mawson Lakes Campus, Mawson Lakes, South Australia, Australia

Biochar, Carbon capture and sequestration, Clay minerals, Emerging contaminants, Nanoparticles, Microplastics, Soil biogeochemical processes, Soil and water contaminants removal

Sabry M. Shaheen, University of Wuppertal, Wuppertal, Germany

Heavy metals, Trace elements, Soil and environmental science, Waste management, Risk assessment

John Ssempebwa, Makerere University, Kampala, Uganda

Environmental pollution, PAHs, water and sanitation, occupational health

Durgesh Kumar Tripathi, Amity University, Amity Institute of Organic Agriculture, Noida, India

Crop Nano Biology, Environmental Nano Biology, Plant nutrition and nano-nutrient delivery in plants, Molecular biology and biotechnology and Molecular stress physiology, ,

Dan Tsang, The Hong Kong University of Science and Technology, Hong Kong, Hong Kong


Jason Unrine, University of Kentucky, Lexington, Kentucky, United States of America

Nanomaterials, metals, soils, contaminant fate, bioavailability, agriculture, ecosystem services, radionuclides, synchrotron methods

Jun Wang, South China Agricultural University College of Marine Sciences, Guangzhou, China

Pollution Ecology, Environmental Pollution, Marine pollution and toxicology

Xiangke Wang, North China Electric Power University College of Environmental Science and Engineering, Beijing, China

Nanomaterials, Sorption, Photocatalysis, Radionuclides, Heavy metal ions, Organic pollutants, Environmental pollutant management

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 of America

**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.

**Lingtian Xie**, South China Normal University, School of Environment, Environmental Research Institute, Guangzhou, China

The impacts of temperature and pollutants on the functional integrity of the aquatic ecosystems, the effects of emerging contaminants in aquatic organisms, Endocrine disruption chemicals, The evolution of resistance to contaminants

**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 chemicals and health, Environmental and human monitoring, Exposure risk assessment and management, Environmental toxicology, Biomarkers

**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

**Fang-Jie Zhao**, Nanjing Agricultural University, Nanjing, China

Heavy metals, trace elements, soil contamination, phytoremediation, food safety, biogeochemistry

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

Microplastics, Engineered nanoparticles, Nanoplastics, Toxicity, Environmental Behaviors

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