DESCRIPTION

*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 related to regional or global environmental compartments.

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- 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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AUDIENCE

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

ABSTRACTING AND INDEXING

PubMed/Medline
Environmental Periodicals Bibliography
Current Contents - Agriculture, Biology & Environmental Sciences
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Michael Bank, Institute of Marine Research, Bergen, Norway
Mercury, microplastics, ocean health, seafood safety, ecotoxicology, isotopic niches, Bayesian modeling, contaminants

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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

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 School of Public Health, Guangzhou, China
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 Environmental Science and Engineering, Shanghai, China
The distribution, fate, and sources and toxicity of emerging contaminants, especially perfluoroalkyl 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.

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 Kümmerer, Leuphana University of Lüneburg Institute for Sustainable and Environmental Chemistry, Lüneburg, Germany
Environmental chemistry, Aquatic environmental chemistry, Benign by design, Green chemistry, Green pharmacy, Sustainable chemistry, Sustainable pharmacy, Resources (bio and metals)

Su Shiung Lam, Universiti Malaysia Terengganu, Kuala Terengganu, Malaysia

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

Philip Smith, Texas Tech University, Lubbock, Texas, United States of America
Environmental Toxicology, Ecological Risk Assessment, Wildlife Toxicology, Particulate Matter
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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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Metals, Ecotoxicology, Pollution, Biogeochemistry, Nanotoxicology

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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

Editorial Board
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Surface chemistry, Surface complexation modeling, Contaminant transport, Geomicrobiology, Hydraulic fracturing, Acid mine drainage, biochar / black carbon, Lithium extraction, Water treatment

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Trace metal geochemistry, Rare earth element, Colloids, Plastics, Organic matter, Solid/water interface, geochemical modelling, Synchrotron techniques

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

Bin Gao, Rensselaer Polytechnic Institute, Department of Civil & Environmental Engineering, Troy, New York, United States of America
Biochar, Environmental Nanotechnology, Contaminant Fate and Transport

**Peng Gao**, University of Pittsburgh, Pittsburgh, Pennsylvania, United States of America
Exposome, Environmental chemistry and toxicology, Analytical chemistry, Environmental health sciences, Gene-environment interaction

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Hormone-disrupting chemicals, endocrine disruptors, organic pollutants, exposome, metabolome and proteome in animal studies

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

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**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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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

**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 México, Mexico
Haider Khwaja, New York State, Department of Health, Albany, New York, United States of America
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

**Patricia Krecl**, Federal Technological University of Parana - Londrina Campus, Londrina, Brazil
Urban air pollution, on-road vehicle emissions, impact of short-lived climate pollutants on personal exposure, and characterization of urban heat islands.

**Jurate Kumpiene**, Luleå 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
Waste recovery, Energy, Biochar, Activated carbon, Thermochemical decomposition, Microwave heating, Chemical activation

**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, Biomonitors, 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**, Tecnologico 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 NanoBiology, Vellore, India
Photo catalytic Nanomaterials, Nano-remediation of Emerging Pollutants, Nano-sensors for Environmental Contaminants, Protein-Nanomaterials Interactions, Green synthesis of Nanomaterials, Nanotoxicology, Safe and Secure Design nanomaterials

Kunihiiko Nakai, Tohoku University, Sendai, Japan
Heavy metals, persistent organic pollutants, epidemiology, birth cohort studies, risk assessment/analysis, methylmercury, Minamata convention

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Nanomaterials, nanoparticles, microplastics, soil pollution, environmental risk assessment, life cycle assessment, chelating agents

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, nanocotoxicity, carbon nanotubes

Stergios Pirintsos, University of Crete Voutes Campus, Iraklion, Crete, Greece
Biemonitoring 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

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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 Polytechnic University, Department of Civil and Environmental Engineering, 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
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.

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, Trophic transfer of pollutants in 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.

Yunjian 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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- 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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The resubmission of manuscripts previously rejected by the journal is by invitation only.

Types of article

A covering letter is required for all article types. This must explicitly express how the submission fits the Aims and Scope of *Environmental Pollution*, and should establish the ramifications of the research findings with regards to environmental quality, ecological health, and/or human health. Failure to include such justifications in the cover letter may result in returning the paper to the author.
Research Papers: Full Research Papers should not exceed 8000 words (including abstract, figures, and tables but excluding references). Please note that small tables and figures each count as 300 words, and large tables or figures with multiple panels may count for 600 or more words. There should be no more than nine figures and tables (e.g., 5 figures and 4 tables maximum) in the main text. Any additional figures and tables should be placed in Supplementary Material.

The abstract (up to 300 words), highlights and conclusions of papers in this journal must contain clear and concise statements. A graphical abstract is mandatory.

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All animal experiments should comply with the ARRIVE guidelines and should be carried out in accordance with the U.K. Animals (Scientific Procedures) Act, 1986 and associated guidelines, EU Directive 2010/63/EU for animal experiments, or the National Research Council's Guide for the Care and Use of Laboratory Animals and the authors should clearly indicate in the manuscript that such guidelines have been followed. The sex of animals must be indicated, and where appropriate, the influence (or association) of sex on the results of the study.

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Corresponding authors, on behalf of all the authors of a submission, must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. All authors, including those without competing interests to declare, should provide the relevant information to the corresponding author (which, where relevant, may specify they have nothing to declare). Corresponding authors should then use this tool to create a shared statement and upload to the submission system at the Attach Files step. Please do not convert the .docx template to another file type. Author signatures are not required.

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