



ENVIRONMENTAL RESEARCH

A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health

AUTHOR INFORMATION PACK

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DESCRIPTION

Environmental Research publishes original reports describing studies of the adverse effects of environmental agents on humans and animals. The principal aim of the journal is to assess the impact of chemicals and microbiological pollutants on human health. Both *in vivo* and *in vitro* studies, focused on defining the etiology of environmentally induced illness and to increase understanding of the mechanisms by which environmental agents cause disease, are especially welcome. Investigations on the effects of global warming/climate change on the environment and public health, as well as those focused on the effects of anthropogenic activities on climate change are also of particular interest.

Although *Environmental Research* is opened to all subjects directly related with this field, areas of special interest include:

- Air purification and air quality management
- Air, soil, and water pollutants and health
- Biomonitoring and adverse human health effects
- Environmental and occupational medicine
- Environmental epidemiology
- Environmental material engineering
- Environmental microbiology
- Environmental toxicology
- Environmental transport and fate of pollutants
- Environmental treatment with novel functional materials
- Global warming/climate change
- Material–environment interface
- Nanomaterials in the environment and nanotoxicology
- Risk analysis, risk assessment and risk management, and public health
- Waste treatment and disposal
- Water and wastewater management, and sewage

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Epidemiology, air pollution, heavy metals, endocrine disrupting chemicals, biomarkers, statistical approaches for pollutant mixtures

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Arsenic metabolism; Effects of metals and pesticides on the heme synthesis pathway; Effects of metals and pesticides on male reproductive health (hormones and semen quality)

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"health risks of climate change, including from extreme events, thermal stress, foodborne and waterborne safety and security, vector borne diseases, undernutrition, and migration adaptation to the risks of climate change, particularly the health risks. health co-benefits. impacts of extreme weather and climate events. resilience, vulnerability, scenarios, international assessments"

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Exposure assessment; Air pollution modelling; Environmental epidemiology

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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

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Human exposure assessment; Biomonitoring

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Molecular mechanisms of antioxidant activity of antioxidants, oxidative stress and exercise, markers of redox status in human, biofunctional food development

Duk-Hee Lee, Kyungpook National University, Daegu, The Republic of Korea

Epidemiology; Persistent organic pollutants; Organochlorine pesticides; Polychlorinated biphenyls; Endocrine disrupting chemicals; Chemical mixtures; Methodological issues in human studies; Obesity; Diabetes; Dementia

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Biogeochemistry of trace metals in soils, wastes, and plants; Soil contamination and remediation; Phytoremediation; Chemical stabilization; Metal speciation; Metal bioavailability and bioaccessibility; Metal exposure and human health; Plant metal uptake and transport; Microbial transformation of metals; Metal availability and food safety

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Environmental geochemistry; Air quality; Atmospheric aerosols; Tropospheric ozone; Black carbon; Ultrafine particles; Metals; Organic pollutants; Inorganic gaseous pollutants, NO₂, NO, NO_x, 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

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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.

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Air quality; Built Environment; Climate Change and Health; Environmental and Occupational Epidemiology; Exposure assessment; Exposome; GIS; Urban Health; Statistics

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INTRODUCTION

A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health

Environmental Research: A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health publishes original reports describing studies of the toxic effects of environmental agents and conditions in humans and animals, including both experimental subjects and ecosystems. The principal aims of the journal are to increase understanding of the etiology of preventable disease and environmental impairments, and to increase understanding of the mechanisms by which environmental agents cause disease and ecological effects. Human impact on the biosphere is considerable and, thus, an additional aim of the journal is to explore the means by which the adverse effects of anthropocentric activities can be minimized through new initiatives or changes in policy, at the local, regional, national, and international scales.

The study of environmental health is inherently multidisciplinary and international. Therefore, the journal welcomes relevant articles in epidemiology, risk analysis and policy, environmental medicine, exposure assessment, geosciences and environmental chemistry, and wildlife biology and ecotoxicology, and ecology. Reports that bridge one or more of these disciplines are particularly encouraged, as are studies employing biological markers of exposure and/or effect.

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