



# NANOIMPACT

An International Journal of NanoSafety Research

## AUTHOR INFORMATION PACK

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### DESCRIPTION

**NanoImpact** is a multidisciplinary journal that focuses on nanosafety research and areas related to the impacts of nanoscale processes and materials (manufactured and incidental nanomaterials, including ultrafine particles and nanoplastics) on human and environmental systems. As such it will publish in the following areas:

- **Human Nanotoxicology** - nano-bio interactions and effects on human health;
- **Econanotoxicology** - nano-bio interactions and effects on organism and ecosystem health;
- **Exposure**- nanomaterial formation, release, transformation fate and behavior in the environment and human/engineered systems;
- **Risk Assessment and Life Cycle Assessment**
- **Nano-informatics** - modelling, data curation
- **Nano-governance**: Policy, regulation, perception

Other areas, such as the development of methodological and modelling approaches and the development of materials and methods to enhance nanosafety, are appropriate if there is a clear and demonstrable link to the above themes.

### ABSTRACTING AND INDEXING

Scopus  
Emerging Sources Citation Index (ESCI)

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**Philip Demokritou**, T. Chan School of Public Health, Harvard University, Boston, Massachusetts, USA  
Nanotoxicology, nano-EHS, environmental Nanotechnology, Sustainable Nanotechnology, Aerosol technology

**Jamie Lead**, Center for Environmental Nanoscience and Risk, University of South Carolina, Columbia, South Carolina, USA

Environment; nanoscience; nanotechnology; nanoparticle; aquatic science; environmental chemistry; trace metals; nanotoxicology; metrology; nanoparticle synthesis

**Bernd Nowack**, Technology and Society Lab (TSL), Swiss Federal Laboratories for Materials Science and Technology, St. Gallen, Switzerland

Nanomaterials: Fate, Effects, Analysis and risks; Chelating agents; Metal speciation in water and soils; Pollutants in soils; Metal in soils; Bioavailability of pollutants; Environmental risk assessment.

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Dendrimer Polymer, Photoactive Nanomaterials, Nanoparticle Characterization, Nanomedicine, Photochemical Release.

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Nanotox testing, fish, invertebrates, zebrafish, nanopesticides, nanoparticles, coatings, functionalization

**Steffen Foss Hansen**, Dept. of Environmental Engineering, Technical University of Denmark (DTU), Kgs. Lyngby, Denmark

Regulatory engineering, Risk assessment, Regulation, Risk governance, Scientific uncertainty, Decision-making tools, Environmental principles

**Willie Peijnenburg**, Institute of Environmental Sciences (CML), Leiden University, 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**, Cell Systems Science Group, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, USA

Nanomaterials, carbon nanomaterials, standardization, nanoecotoxicity, carbon nanotubes.

**Dale Porter**, Pathology and Physiology Research Branch, National Institute for Occupational Safety and Health (NIOSH), Morgantown, West Virginia, USA

nanotoxicology, pulmonary toxicology, inhalation toxicology

**David Tai Leong**, Centre for Life Sciences, National University of Singapore, Singapore

Nanobiology, Nanotoxicology, Blood vessels, Nanomedicine

**Socorro Vázquez-Campos**, LEITAT Technological Center, Terrassa, Spain

Nanomaterials characterization, Nanomaterials release, hazard assessment, risk assessment, life cycle assessment

**Jason White**, Department of Analytical Chemistry, Connecticut Agricultural Experiment Station (CAES), New Haven, Connecticut, USA

Nanotoxicology; Econanotoxicology; Food safety; Nano EHS

**Peter Wick**, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland

Nanoparticle, in vitro, ex vivo, biological barriers, nanomedicine, nanosafety, method development

**Wendel Wohlleben**, Material Physics, BASF AG, Ludwigshafen, Germany

Identification, characterization and grouping of nanoforms, Lifecycle and release testing of nano-enabled products, Femtosecond spectroscopy

**Bing Yan**, School of Chemistry and Chemical Engineering, Shandong University, Jinan, China

nanoparticle functionalization, nanotoxicity, cytotoxicity, chemistry, characterization, animal model, molecular interaction, cell signaling, systems toxicology, structural activity relationship

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nanotoxicology, carbon nanotubes, nano-metals, pulmonary fibrosis, asthma, lung cancer, mesothelioma, cell signaling mechanisms

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inhalation toxicology, pulmonary toxicology, nanotoxicology, occupational exposure and health, predictive screening test for the bioactivity of nanoparticles

**Roland Hischer**, Technology & Society Laboratory (TSL), Empa-Swiss Federal Laboratories for Materials Testing and Research, St. Gallen, Switzerland

Life Cycle Assessment, Life Cycle Inventory Modelling, LCA

**Danail Hristozov**, Department of Environmental Sciences, Università Ca' Foscari Venezia, 30175 - Marghera - VE, Italy

nanosafety, nano-bio interactions, environmental impacts, human health risk assessment and management, risk governance

**Saber Hussain**, Research Laboratory, United States Airforce, Dayton, Ohio, USA

**Guibin Jiang**, Research Center for Eco-Environmental Sciences (RCEES), Chinese Academy of Sciences (CAS), Beijing, China

Speciation analysis of organometallic compounds; Persistent organic pollutants; Environmental endocrine disruptors; Emerging chemicals; Analytical toxicology; Nanotoxicology

**Michael Riediker**, Schweizerisches Zentrum für Arbeits- und Umweltgesundheit (SCOEH), Stäfa, Switzerland

Nanomaterials, risk assessment, risk management, human toxicology, airborne exposure, aquatic fate

**Yon Rojanasakul**, Dept. of Pharmaceutical Sciences, West Virginia University, Morgantown, West Virginia, USA

Bionanotechnology, nanotoxicology, lung cancer, fibrosis, inflammation, apoptosis, drug delivery, drug resistance, stem cell biology, tumor microenvironment, free radical biology

**Kai Savolainen**, Arbetshälsoinstitutet (FIOH) Finnish Institute of Occupational Health, Helsinki, Finland

Nanotoxicology, genotoxicology, immunotoxicology, nanosafety, nanomaterials, risk assessment, regulatory toxicology, pharmacology, oxidative stress

**Mark Wiesner**, Dept. of Civil & Environmental Engineering, Duke University, Durham, North Carolina, USA

Particle surface chemistry, exposure modeling, risk forecasting, membrane, water

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