NANOIMPACT
An International Journal of NanoSafety Research

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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

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

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

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

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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, nanotoxicology, carbon nanotubes.

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nanotoxicology, pulmonary toxicology, inhalation toxicology

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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, Dubendorf, 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

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

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Life Cycle Assessment, Life Cycle Inventory Modelling, LCA

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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

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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

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

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