

Special Issue

Advanced Hybrid and Electrochemical Techniques for Emerging Water Pollutants

Message from the Guest Editors

The Special Issue of *Toxics*, entitled "Advanced Hybrid and Electrochemical Techniques for Emerging Water Pollutants", is dedicated to collecting cutting-edge research at the intersection of electrochemistry, nanotechnology, and environmental toxicology. We specifically invite submissions that advance the design, synthesis, characterization, and application of novel nanomaterials used as advanced electrodes in electrochemical oxidation (EO) systems for effective water and wastewater remediation. Areas of particular interest for original research, innovative methodologies, and comprehensive review articles include studies focusing on nanostructured metal oxides, graphene and carbon nanotube composites, metal–organic framework (MOF) derivatives, and hybrid catalysts. Submissions should evaluate the potential, mechanism, fate, and safety implications of these advanced EO systems to define their role in the next generation of water treatment technology.

Guest Editors

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Deadline for manuscript submissions

20 June 2026



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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

Editor-in-Chief

Dr. Demetrio Raldúa
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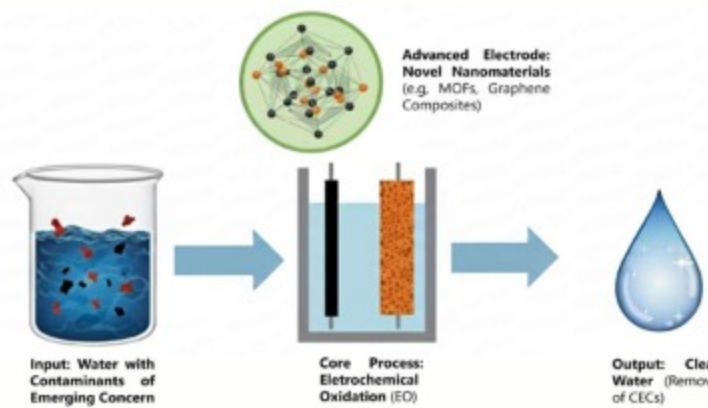
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Advanced Hybrid and Electrochemical Techniques for Emerging Water Pollutants

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A special issue of *Toxics* (ISSN 2305-6304). This special issue belongs to the section "Toxicity Reduction and Environmental Remediation".

Deadline for manuscript submissions:
20 June 2026 | Viewed by 34



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Special Issue Editors



Prof. Dr. Artur J. Motheo E-Mail Website

Guest Editor

São Carlos Institute of Chemistry, University of São Paulo, São Carlos CEP 13566-590, SP, Brazil

Interests: electrochemistry (fundamental science); advanced oxidation processes (AOPs); electrochemical degradation; anode and cathode materials; water treatment technologies; environmental remediation; emerging pollutants; persistent organic pollutants (POPs)



Dr. Michel Zampieri Fidelis E-Mail Website

Guest Editor Assistant

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Interests: advanced oxidation processes (AOPs); electrochemical engineering; environmental remediation; water treatment technologies; persistent organic pollutants (POPs); process scalability materials development; process synergy reactor optimization

Special Issue Information

Dear Colleagues,

The persistent global challenge of providing clean and safe drinking water is intensifying as conventional treatment methods struggle to handle the complex and growing array of contaminants of emerging concern (CECs). These contaminants, including pharmaceuticals, pesticides, and endocrine-disrupting chemicals, form toxic organic residues whose persistence in aquatic environments poses a significant and ongoing risk to both human health and ecosystems, a core concern central to the mission of *Toxics*. To address this, the Special Issue of *Toxics*, entitled "Advanced Hybrid and Electrochemical Techniques for Emerging Water Pollutants", is dedicated to collecting cutting-edge research at the intersection of electrochemistry, nanotechnology, and environmental toxicology.

We specifically invite submissions that advance the design, synthesis, characterization, and application of novel nanomaterials used as advanced electrodes in electrochemical oxidation (EO) systems for effective water and wastewater remediation. Areas of particular interest for original research, innovative methodologies, and comprehensive review articles include studies focusing on nanostructured metal oxides, graphene and carbon nanotube composites, metal–organic framework (MOF) derivatives, and hybrid catalysts. Submissions should evaluate the potential, mechanism, fate, and safety implications of these advanced EO systems to define their role in the next generation of water treatment technology.

Prof. Dr. Artur J. Motheo

Guest Editor

Dr. Michel Zampieri Fidelis

Guest Editor Assistant

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Keywords

- electrochemical oxidation (EO)
- contaminants of emerging concern (CECs)
- nanomaterials
- water treatment
- nanostructured electrodes
- nanotechnology
- environmental toxicology
- wastewater remediation
- metal–organic frameworks (MOFs)
- hybrid catalysts
- electrochemical oxidation (EO)

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