



catalysts



an Open Access Journal by MDPI

Advanced Functional Materials for Photo/Electro-Catalysts for Environmental and Energy Applications

Guest Editors:

Dr. Sekar Karthikeyan

Department of Chemistry, SRM
Institute of Science and
Technology Kattankulathur, India

Dr. Boopathy Ramasamy

Department of Environment and
Sustainability (IMMT), CSIR-
Institute of Minerals and
Materials Technology,
Bhubaneswar, India

Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editors

Dear Colleagues,

The aim of the Special Issue is to establish sustainable advanced materials to address the water, atmospheric pollution and energy issues. As described in the Sustainable Development Goals (SDG6), sustainable water and sanitation are becoming increasingly more important in society, and atmospheric CO₂ emission, which causes climate change, global warming, and rising sea levels, represents another important issue. As per the Paris agreement, the global warming rate must be kept under 2 °C or lower than that related to pre-industrial level. It is thus urgent to develop innovative advanced materials with broad energy and environmental applications.

This Special Issue covers durable innovative inorganic materials, organic materials, organic/inorganic hybrid materials and advanced functional materials for sustainable water, environmental remediation, solar utilization, and conversion into solar fuels. Papers on electrocatalytic water splitting, CO₂ reduction and fuels, and photo(electro)catalytic solar fuels are also welcome.

Dr. Karthikeyan Sekar

Dr. Boopathy Ramasamy

Guest Editors



mdpi.com/si/81108

Special Issue