atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.9

# Nanomaterial-Based Electrochemical Analysis and Treatments of Pollutants

Guest Editor:

**Dr. Xiaorong Gan**
Key Laboratory of Integrated Regulation and Resource Development on Shallow Lake of Ministry of Education, College of Environment, Hohai University, Nanjing 210098, China

Deadline for manuscript submissions:
**closed (30 July 2022)**

## Message from the Guest Editor

Gaseous pollutants, such as volatile organic compounds (VOCs), carbon dioxide ($CO_2$), carbon monoxide (CO), methane ($CH_4$), ammonia ($NH_3$), nitric oxide (NO), nitrogen dioxide ($NO_2$), hydrogen sulfide ($H_2S$) and sulfur dioxide ($SO_2$), have adverse effects (e.g., the greenhouse effect) on the climate and, particularly, on human health (irreversible damage to the respiratory system).

The Special Issue aims to disseminate recent advances in the field of various nanomaterials with different compositions, dimensionalities and atomic arrangements for electrochemical sensors and treatments of various air pollutants.

Topics of interest for the Special Issue include, but are not limited to, the following:

- Zero-dimensional (0D) metal particle-based electrochemical sensors;
- Graphene or graphene-like 2D material based electrochemical sensors;
- Mixed-dimensional nanomaterials for electrochemical sensors;
- Field effect transistor-based sensors;
- Electrochemical reduction;
- Electrochemical oxidation;
- Single-atom electrochemistry.

# atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.9


## Editor-in-Chief


**Dr. Daniele Contini**
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy


## Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.
**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.
**Journal Rank:** CiteScore - Q2 (Environmental Science (miscellaneous))

## Contact Us


*Atmosphere* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
𝕏@Atmosphere_MDPI