

## Special Issue

# Advanced Nanomaterials for Pollutant Gases Reduction and Abatement

### Message from the Guest Editor

As we all know, air pollution is currently a huge problem. The air we breathe can contain amounts of harmful gases and particulates that can lead to health problems in humans and animals and also damage the environment. Some of these pollutants are caused by natural processes, but most are due to human activities. Both outdoor and indoor air quality are of great concern. Major air pollutants include carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, volatile organic compounds, greenhouse gases, stratospheric ozone depleters, soot, among others. This Special Issue of *Nanomaterials* intends to highlight progress made so far on advanced nanomaterials for pollutants reduction and abatement. We welcome papers dealing with the following topics, but without being limited to these: catalytic and photochemical reduction of pollutants, electrochemical selective reduction of pollutant gases, also with materials and processes, as well as ideas for reduction of pollutant emissions in transportation and industry. We hope to provide inspiration to scientists to continue facing these challenges and make further advances in this field.

### Guest Editor

Dr. Sónia Carabineiro

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### Deadline for manuscript submissions

closed (6 May 2019)



## Nanomaterials

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## About the Journal

### Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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