



Nanocoatings with Air-Purifying Properties

Guest Editors:

Prof. Dr. Anibal C. Maury-Ramirez

CHOC-IZONE Research Group,
Engineering Faculty, Universidad
El Bosque, Bogota 111711,
Colombia

Dr. Placidus B. Amama

Department of Chemical
Engineering, Kansas State
University, Manhattan, KS 66506,
USA

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Message from the Guest Editors

Dear Colleagues,

Air pollution is a major concern on global and local scales. As concluded almost ten years ago in the Blacksmith Institute's "World's Worst Pollution Problems 2008", indoor air pollution and poor urban air quality are listed as two of the world's worst pollution problems. In addition to destroying diverse ecosystems due to global warming, air pollution causes serious respiratory and cardiovascular problems in human beings. On the other hand, in spite of the applied efforts to reduce air pollution by improving manufacturing processes, stimulating more sustainable transportation methods, installing emission reduction systems in vehicles, air pollution is still a major problem at global and local scales. Thus, innovative solutions such as nanocoatings are needed to tackle this current human challenge. For example, photocatalytic coatings has become an appealing approach as a green technology for air purification. This Special Issue aims to provide comparisons and assessments of the application potentials of novel nanocoatings for indoor and outdoor air purification.

Prof. Dr. Anibal C. Maury-Ramirez

Dr. Placidus B. Amama

Guest Editors





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Editors-in-Chief

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State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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