applied sciences

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Nanotechnologies for Environmental Remediation

Guest Editors:

Prof. Dr. Chin-pao (C. P.) Huang
huang@udel.edu

Prof. Dr. Ruey-An Doong
radoong@mx.nthu.edu.tw

Prof. Dr. Cheng-Di Dong
cddong@webmail.nkmu.edu.tw

Prof. Dr. Huijuan Liu
hjliu@rcees.ac.cn

Prof. Dr. Bingcai Pan
bcpan@nju.edu.cn

Deadline for manuscript submissions:
30 March 2019

Message from the Guest Editors

In order to achieve sustainability within the framework of environment and energy nexus, nanomaterials and nanotechnology will play the foremost role. The millennium agenda of global sustainability has arrived with excellent opportunities for the deployment and its ultimate implementation of nanotechnologies for environmental remediation. Nanomaterials require small amounts of raw materials, have unique and much enhanced surface reactivities and selectivities, and robust in-system design and operations.

The Special Issue welcomes manuscripts covering the following subjects: Processes and engineering applications of nanotechnologies for the treatment of impaired water, polluted air, contaminated soils and sediments; electrochemical processes applying nanocatalytic electrode materials; heterogeneous nanophotocatalysis; multiple-functional nanoadsorbents and nanocatalysts; photo-electrochemical processes; nanomembranes; environmental nanosensors; environmental implications; and impacts of nanaomaterials.

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mdpi.com/si/15498