Special Issue

Materials for Clean Processes in Energy

Message from the Guest Editors

Dear colleagues, There is an overwhelming compulsion in the development of new materials aiming to diminish the environmental footprint of processes in the energy field and to adapt their properties to target applications. A different approach is to create new and target materials for a definite application by varying the synthesis and activation conditions and methodology during preparation. This way, numerous new materials have recently been developed for specific applications in the field of energy. Thanks to the advances in material science, several energy storage and production processes have been transformed/reconverted into clean processes (biofuel industry, fatal energy recovery, renewable energy storage, etc.). The topic of this Special Issue is the implementation of new materials in clean processes in the energy field:

- Biosourced material for energy recovery (biofuel, chars, etc.);
- Materials and composites for energy storage (PCM, salt hydrate, zeolites, etc.);
- Materials and catalytic materials for energy related processes (biofuels production and purification, biogas purification, etc.).

Guest Editors

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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