Special Issue

New Insights into Lignocellulosic-Based Materials and Their Multifunctional Applications

Message from the Guest Editors

Lignocellulosic refers to materials that are composed of lignin, cellulose, and hemicellulose. These materials are typically derived from plant biomass such as wood, agricultural residues, or energy crops. Lignocellulosic materials are abundant and renewable, exhibiting a high-reactivity surface and functionality along with a relatively low density and cost, and are of great interest to various industries, including bioenergy, biorefinery, and paper and pulp production. Research is ongoing to develop more efficient and cost-effective processes for the conversion of lignocellulosic materials into useful products such as cellulose fibres, micro- and nano-cellulose, epoxides, phenolic resins, and bioplastics for a wide range of applications such as biorefining for biofuel and biochemical production, biomedical, cosme- and pharmaceuticals, multifunctional carbon materials, and other eco-friendly specialty products. Therefore, the use of these materials can help to reduce reliance on fossil fuels and contribute to a more sustainable future.

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Deadline for manuscript submissions

closed (20 April 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/164204

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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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