Special Issue

The Application of New Organic Materials in Biology

Message from the Guest Editors

Two centuries ago, “organic compound” and “substance of biological origin” were treated as synonyms. The development of organic synthesis, starting for the pioneering works of Wöhler, Kolbe, von Liebig, Berthelot, and many others, has led us to the point where an unlimited number of stable “unnatural” carbon compounds can be prepared in the laboratory. Furthermore, synthetic pathways for the construction of complex organic materials can now be designed that are more atom- and step-economical than previous methods. The majority of new compounds are prepared with the aim to fulfill specific requirements directed by their possible applications. A particular attention is focused on the materials that exhibit a desired biological activity and can be used mainly as agrochemicals and pharmaceuticals. Numerous organic drugs, starting from relatively simple to sophisticated compounds with a specific stereochemistry are used to prevent, diagnose, and finally to treat diseases. This incessant quest for more active, more selective, and more easily available pharmaceuticals has received special attention in the context of the pandemic of COVID-19.

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Deadline for manuscript submissions

closed (10 January 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/46183

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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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