

Special Issue

Coordination Chemistry and Redox Properties of Metabolites

Message from the Guest Editors

Various primary and secondary metabolites have been intensively investigated for their pharmacological and other activities. Many activities of metabolites depend on the redox properties of metabolites and their abilities to form coordination complexes, especially with transition metals such as iron, copper or manganese. Redox active metabolites and their coordination complexes affect concentrations of reactive oxygen species (ROS) in tissues. Since ROS participate in physiological and pathological processes, metabolites such as kynurenines, polyphenols, amino acids, and others, including their synthetic analogues, are explored as potential medicaments for a treatment of degenerative or some metabolic diseases. Furthermore, some metabolites or their coordination complexes can be used in organic and analytical chemistry as redox active agents or catalysts. Therefore, this Special Issue dedicated to coordination chemistry and redox properties of metabolites can provide remarkably interesting insights into innovative and future trends.

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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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