



Nanoantioxidants Volume II

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Message from the Guest Editor

Natural and engineered nanomaterials represent one of the most promising frontiers in the field of antioxidants. Natural-based biocompatible nanomaterials such as metal oxides, melanins, and lignin nanoparticles have demonstrated the possibility to act as radical scavengers with low toxicity. The possibility to easily functionalize the surface of nano-objects opens interesting applications such as modulation of the solubility and targeting.

This Special Issue aims to collect recent developments in the field of the radical chemistry of nano-antioxidants, with a special focus on this non-exhaustive list of topics:

- 1) Preparation of novel nanomaterials having antioxidant activity;
- 2) Studies of the interaction of nanomaterials with free radicals, and ROS in general, with a special focus on alkylperoxyl radicals that propagate the lipid peroxidation;
- 3) Nanocarriers or nanocapsules for targeted transport and controlled release of antioxidants;
- 4) Biomimetic methods for measuring the efficacy of nanoantioxidants.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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