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Upconverting Materials: Synthesis, Characterizations and Applications

Guest Editor:

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Deadline for manuscript submissions:

closed (30 June 2019)

Message from the Guest Editor

This thematic issue will include i) the preparation and strategies of chemical synthesis of both Ln-UC and TTA-UC systems with enhanced UC efficiency, ii) the characterization of the above materials, and iii) the study and results concerning applications of UC materials as well as envisaged future developments in this research field. Considered applications should include, but are not be limited to bioimaging (including multimodal bioimaging by magnetic resonance imaging MRI, X-ray computed tomography CT, etc.), detection applications (UC materials as sensors and biosensors of temperature, pH as well as of ions and small molecules), drug delivery and therapies, lighting sources, photocatalysis and photovoltaics.



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Special Issue



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Editor-in-Chief

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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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