

Special Issue on
Plasmonic Nanomaterials for Optical Sensor and Energy Storage and Transfer

CALL FOR PAPERS

Plasmonic nanomaterials including noble metal nanomaterials and some metal oxide nanomaterials exhibit very strong light-matter interactions under resonant excitation. Very large absorption and scattering at the localized wavelengths can be achieved. Another important property of plasmonic NPs and nanostructures is electric field localization, which enables plasmonic resonance to break the diffraction limit and trap light in a nanoscale region. Because of their attractive optical properties, plasmonic NPs and nanostructures have been commonly used in various fields from nanophotonics, analytical chemistry, biotechnology, and information storage to energy applications including photovoltaics and photocatalysis.

We invite investigators to contribute original research articles as well as review articles that seek to address the new preparation of plasmonic nanomaterials, interesting design of plasmon-enhanced optical sensor, energy storage, and energy transfer. Moreover, the new physical phenomena and mechanisms in these fields are encouraging and worthwhile.

Potential topics include but are not limited to the following:

- ▶ The preparation of noble metal plasmonic materials
- ▶ The preparation of metal oxide plasmonic materials
- ▶ Surface enhanced Raman scattering
- ▶ Supercapacitors
- ▶ Lithium-ion battery
- ▶ Plasmon-enhanced photoluminescence
- ▶ Plasmon-enhanced water splitting and photocatalysis
- ▶ Plasmon-enhanced solar cells

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jnt/pnos/>.

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Manuscript Due

Friday, 6 January 2017

First Round of Reviews

Friday, 31 March 2017

Publication Date

Friday, 26 May 2017