

Special Issue on
**Advanced Optoelectronic Materials and Their
Applications in Photonics and Energy Harvesting**

CALL FOR PAPERS

Optoelectronic materials have been intensively studied due to their unique electronic, optical, and chemical properties, enabling high performance devices for photonic and energy applications. This special issue aims to highlight recent achievements in the fields of nanooptoelectronic materials, including novel designs, synthesis, characterization, and application of novel nanostructures for photonics and energy harvesting.

We invite submissions of original research as well as review articles to this special issue.

Potential topics include but are not limited to the following:

- ▶ Theoretical simulation, fabrication, and characterization of novel nanomaterials
- ▶ Epitaxial growth of III-V semiconductors
- ▶ Optoelectronic materials for light-emitting diodes, laser diodes, photodetectors, solar cells, and solar fuel cells
- ▶ Nanophotonic light trapping for solar cells
- ▶ Device reliability and large-scale fabrication technology
- ▶ Photochemical water splitting and hydrogen generation using nanomaterials
- ▶ Photoelectrochemical diode (dual-photoelectrode) and its application in hydrogen generation
- ▶ Semiconductors photochemistry
- ▶ Nanostuctured catalysts
- ▶ CO₂ photoreduction and photoelectrochemical CO₂ reduction

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

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First Round of Reviews

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