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Materials for Photovoltaic Applications

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Deadline for manuscript submissions:
closed (30 September 2019)

Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Materials* will be a detailed overview of recent research and development in the field of photovoltaics and solar cells.

Experimental approaches for the development materials and technologies covering:

- Novel materials and device architectures
- Fundamental studies on organic layers and applications to multi-junction cells
- Advances in single and multicrystalline silicon solar cells, thin film silicon cells and amorphous silicon
- Technology advances in quantum dots, dye-sensitised solar cells and organic photovoltaics
- Perovskite semiconductors, solar cells and materials
- Compound semiconductor cells (CIS, CIGS, CdTe)
- Group III–V semiconductors solar cells
- Application and advances in materials for photovoltaic including transparent conductive oxide (TCO), anti-reflective coating (ARC), graphene and graphite composites, plasmonics and novel light trapping, hot-carrier effects and up/down conversion.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews related to materials for photovoltaic applications are all welcome.

Dr. Gregory J. Wilson
Guest Editor

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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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