

Special Issue on Heterojunction Solar Cells

Call for Papers

Photovoltaics represent the most dynamically growing branch of semiconductor materials science and engineering. New and prospective materials are under intensive research in order to create highly efficient photovoltaic devices based on different organic, hybrid organic-inorganic and inorganic heterojunctions. Heterojunction solar cells possess a combination of unique properties of different materials that helps to improve their operational characteristics compared with traditional homojunction silicon solar cells. We invite authors to submit original research articles as well as review articles which discuss the recent developments in various types of heterojunction solar cells, including organic bulk-heterojunction solar cells, dye-sensitized solar cells, hybrid organic-inorganic solar cells, and inorganic heterojunction solar cells. We are particularly interested in the articles describing the synthesis of novel photovoltaic materials, fabrication and characterization of devices, analysis of device physics, and mechanistic studies involving photoinduced charge transfer and recombination. Papers which propose new methods for the analysis of electrical and photoelectric properties of heterojunction solar cells are also welcome to submit. Potential topics include, but are not limited to:

- Organic, hybrid, and inorganic heterojunction solar cells
- Dye-sensitized solar cells: Nanostructured oxides and iodine-free electrolytes
- Device architectures and interface engineering
- Novel ITO-free electrodes
- Photoinduced charge transfer and recombination mechanism
- New methods and approaches for the analysis of heterojunction solar cells
- Light trapping techniques in heterojunction solar cells

Before submission authors should carefully read over the journal's Author Guidelines, which are located at <http://www.hindawi.com/journals/ijp/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ijp/hsc/> according to the following timetable:

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First Round of Reviews	Friday, 20 June 2014
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Lead Guest Editor

Aung Ko Ko Kyaw, Center for Polymers and Organic Solids, University of California, Santa Barbara, CA 93106-5090, USA; aung0069@e.ntu.edu.sg

Guest Editors

Antonio Otavio Patrocinio, Institute of Chemistry, Universidade Federal de Uberlandia, 38400-902 Uberlandia, MG, Brazil; otaviopatrocinio@iqufu.ufu.br

Dewei Zhao, Department of Electrical Engineering and Computer Science, The University of Michigan, Ann Arbor, MI 48109, USA; dewei_zhao@hotmail.com

Victor Brus, Department of Electronics and Energy Engineering, Chernivtsi National University, Chernivtsi 58000, Ukraine; victorbrus@mail.ru