

Submission Deadline—November 1, 2015



## Advanced Materials and Structures for Solar Fuels

Efficient and cost-effective generation of renewable fuels, such as hydrogen from renewable resources like solar energy, is crucial to ensure a sustainable future. Due to the lack of materials and structures, however, current technologies for renewable hydrogen production via photoelectrochemical (PEC) water splitting have significant challenges in efficiency, durability, and cost. In view of their importance in sustainable energy and environmental applications, a compilation of accomplishments in photocatalytic materials research will promote rapid advances of the field.

This *JMR* Focus Issue will present latest developments in photocatalytic materials and structures, with focus on both the fundamental materials science and their applications in solar fuels production.

### Contributed articles are sought in the following areas:

- ◆ Fundamental studies of solar fuels generation via PEC water splitting
- ◆ Semiconductor materials, advanced structures, and systems for solar fuels
- ◆ Surface and interface properties of semiconductor/electrolyte junctions
- ◆ Nano-materials and heterostructures
- ◆ Overlayers, underlayers, etc. for enhanced kinetics and charge transfer
- ◆ Molecular and mesoscopic modifications of photocatalysis
- ◆ Modeling and simulation of semiconductors, interfaces, and transport processes
- ◆ Short reviews of materials and structures

### GUEST EDITORS

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### MANUSCRIPT SUBMISSION

To be considered for this issue, new and previously unpublished results significant to the development of this field should be presented. The manuscripts must be submitted via the *JMR* electronic submission system by **November 1, 2015**. Manuscripts submitted after this deadline will not be considered for the issue due to time constraints on the review process. **Submission instructions may be found at [www.mrs.org/jmr-instructions](http://www.mrs.org/jmr-instructions)**. Please select "Focus issue: *Advanced Materials and Structures for Solar Fuels*" as the manuscript type. **Note our manuscript submission minimum length of 6000 words**. All manuscripts will be reviewed in a normal but expedited fashion. Papers submitted by the deadline and subsequently accepted will be published in the Focus Issue. Other manuscripts that are acceptable but cannot be included in the issue will be scheduled for publication in a subsequent issue of *JMR*.

CALL FOR PAPERS

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