



CALL FOR PAPERS

Catalytic Engineered Materials for Commercial and Industrial Energy Applications

Environmental pollution due to combustion of fossil fuels and other chemical energy components has been a major worldwide challenge for decades, leading to extensive energy research with mainstays of upgrading bitumen and coal, and hydro-processing fuels. Refining processes that exploit the efficiency and long life span of catalytic materials can (1) lower the high content of heterogeneous atoms such as sulfur and other pollutants, (2) improve methane reforming, and (3) enhance water splitting efficiency. Editors for this *JMR* Focus Issue invite the materials community to share research on catalytic materials as a fundamental pillar in the development of fuel components, including commercial liquid fuels, hydrogen production and methane reforming as detailed below.

Contributed articles are sought in the following areas:

- ◆ Computer assisted density functional theory simulations
- ◆ Novel chemistry methods of synthesis (e.g., Fischer-Tropsch, hydrogenation, hydrothermal, sol-gel, etc.)
- ◆ Characterization including *in situ*, *operando*: UV-vis, HRTEM, SEM and XRD
- ◆ Fabrication, integration, and scaling
- ◆ Industrial commercialization and energy production

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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To be considered for this issue, new and previously unpublished results significant to the development of this field should be presented.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 **April 1, 2018**. Manuscripts submitted after this deadline will not be considered for the issue due to time constraints on the review process. Please select “Focus issue: Catalytic Engineered Materials for Commercial and Industrial Energy Applications” as the manuscript type. **Note our manuscript submission minimum length of 6,000 words, with a maximum of 6–8 figures. Review articles must be pre-approved by proposal to the Editor-in-Chief. The proposal form and author instructions may be found at www.mrs.org/jmr-instructions.** 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*.

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