



Submission Deadline—July 1, 2019

Advances in Battery Technology: Material Innovations in Design and Fabrication

The increasing demand for clean energy is a primary force driving the battery industry's innovations in such aspects as long cycle life, wide working temperature, and the search for inexpensive materials with high energy density. Developing novel materials and scalable production processes is essential for the advancement of battery technologies. High-performance materials fabricated by processes with high production yield, repeatable product quality, and facile equipment requirement are greatly favored in both scientific exploration and practical applications. Production of components including electrodes, electrolytes, and separators, is another area of rapid advancement in the field's technology.

This *JMR* Focus Issue is designed to report the latest advances in battery material innovations and process developments across the industry.

Manuscripts are solicited in the following areas:

- ◆ New design for battery materials: cathodes, anodes, electrolytes
- ◆ New process development of the material synthesis
- ◆ Chemical process simulation
- ◆ Process utilizes inexpensive and nontoxic raw materials
- ◆ Advanced material characterizations
- ◆ New chemistries for energy storage
- ◆ Beyond lithium ion

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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To be considered for this issue, new and previously unpublished results significant to the development of this field should be presented.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 July 1, 2019. Manuscripts submitted after this deadline will not be considered for the issue due to time constraints on the review process. Please select "Focus issue: Thermodynamics of Complex Solids" as the Focus Issue designation. **Note our manuscript submission minimum length of 3250 words, excluding figures, captions, and references, with at least 6 and no more than 10 figures and tables combined. Review articles may be longer but must be pre-approved by proposal to the Guest Editors via jmr@mrs.org. 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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Please direct questions to jmr@mrs.org

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The Society's interdisciplinary approach to the exchange of technical information is qualitatively different from that provided by single-discipline professional societies because it promotes technical exchange across the various fields of science affecting materials development. MRS sponsors two major international annual meetings encompassing many topical symposia, as well as numerous single-topic scientific meetings each year. It recognizes professional and technical excellence, conducts tutorials, and fosters technical exchange in various local geographical regions through Section activities and Student Chapters on university campuses.

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Cambridge University Press
One Liberty Plaza, 20th Floor,
New York, NY 10006

A publication of the
MRS MATERIALS RESEARCH SOCIETY
Advancing materials. Improving the quality of life.

Periodical Rate Postage Paid at New York, NY
and Additional Mailing Offices

ISSN: 0884-2914