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凝胶注模制备碳化钨多孔陶瓷

霍思嘉, 王东, 王玉金, 陈磊, 邓伟志, 周玉

**Preparation Process of Tungsten Carbide Porous
Ceramic by Gel-casting**

HUO Sijia, WANG Dong, WANG Yujin, CHEN Lei,
DENG Weizhi, ZHOU Yu

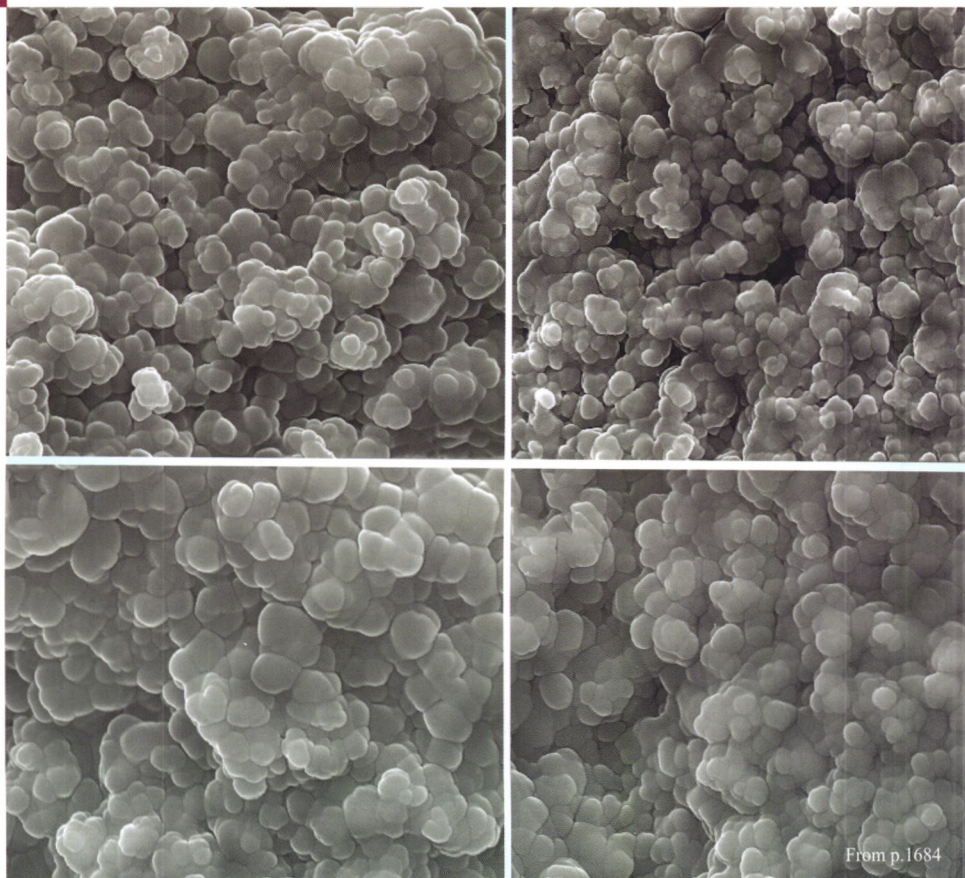


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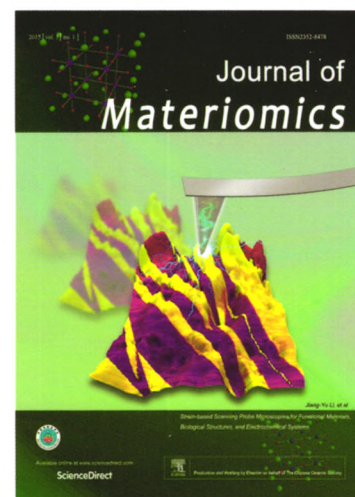
Special Issue on

“High-throughput Experimental and Modeling Research toward Advanced Batteries”

1. Summary and Scope

Advanced batteries play a key role in the development of portable and wearable electronics, electric and hybrid vehicles, smart grids and back-up power sources, and many more emerging applications. In most cases, exploration of new and alternative battery materials starts from known literature and follows time-consuming trial-and-error experimental or modeling approaches. The Materials Genome Initiative was established over the past years, and it has been recently introduced to accelerate advanced battery R&D through high-throughput methods of synthesis and fabrication, characterization and evaluation, as well as modeling and data mining.

The Journal of Materiomics is positioned to be a leading academic journal that publishes cutting-edge research in this particular field. The journal is planning a special issue (to be published in March, 2017) focused on the progress in high-throughput experimental and modeling research toward advanced batteries.



The topics if the special issue will include, but not belimited to:

- Materials Genome strategies in battery material research
- Multiple scale calculation and simulation of electrode and electrolytes
- High-throughput deposition of thin film electrodes
- High-throughput synthesis of powder electrode materials
- High-throughput screening of electrolyte and additives
- Rapid characterization of battery materials
- Rapid *in-situ* evaluation of battery devices
- Design of experiments for battery optimization
- Database and Data mining in advanced battery exploration

2. Submission Guideline

Authors should prepare their manuscripts following the online submission page of Journal of Materiomics at <http://www.journals.elsevier.com/journal-of-materiomics>. All manuscripts will be peer-reviewed according to the journal reviewing procedures.

3. Important Dates:

Manuscript submission due date: December 20, 2016

Publication date: 20 March 2017

4. Guest Editor

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