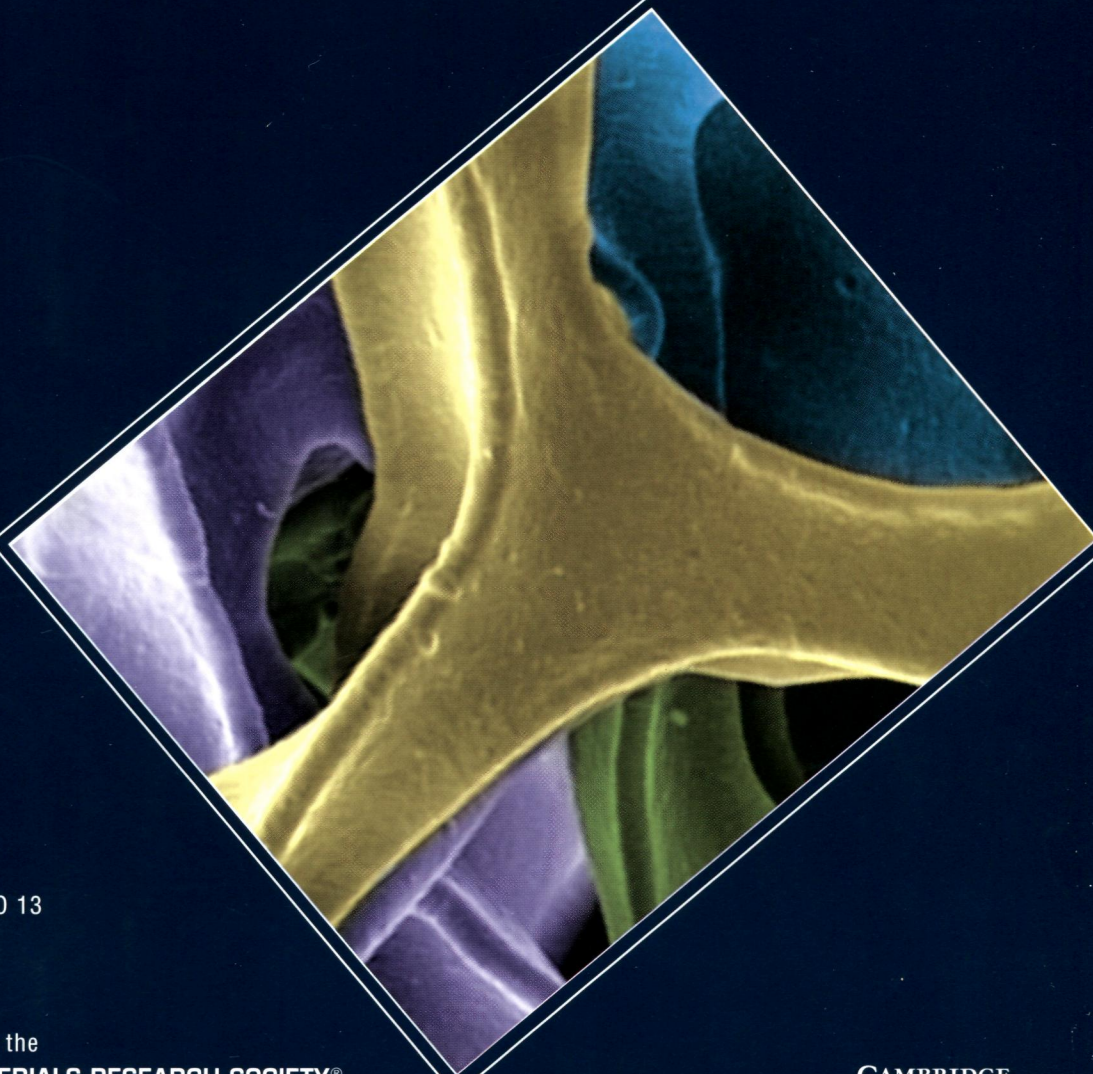


RU
J30/mrs



jmr Journal of
MATERIALS RESEARCH



VOLUME 29 • NO 13
JULY 14, 2014

A publication of the



MATERIALS RESEARCH SOCIETY®
Advancing materials. Improving the quality of life.

CAMBRIDGE
UNIVERSITY PRESS

Journal of MATERIALS RESEARCH

Volume 29, Number 13, July 14, 2014

ARTICLES

- 1393–1400 **Preparation and electrochemical evaluation of NiO nanoplatelet-based materials for lithium storage** Xiujuan Wang, Gang Wang, Gaohong Zhai, Hui Wang
- 1401–1407 **Pristine graphene quantum dots for detection of copper ions** Xiaofeng Liu, Wei Gao, Xuemei Zhou, Yuanyuan Ma
- 1408–1416 **N-doped graphene quantum dots-functionalized titanium dioxide nanofibers and their highly efficient photocurrent response** Xiaotian Wang, Dandan Ling, Yueming Wang, Huan Long, Yibai Sun, Yanqiong Shi, Yuchao Chen, Yao Jing, Yueming Sun, Yunqian Dai
- 1417–1423 **Facile synthesis of the SiO₂/Au hybrid microspheres for excellent catalytic performance** Xin-Hui Liu, Bin-Bin Ding, Yan Zhu, Tai-Ya Wang, Bi-Cui Chen, Yong Shao, Ming-Qi Chen, Pan Zheng, Yu-Ling Zhao, Hai-Sheng Qian
- 1424–1430 **Synthesis of tungsten oxide nanoparticles using a hydrothermal method at ambient pressure** Majid Ahmadi, Reza Younesi, Maxime J-F. Guinel
- 1431–1439 **Solvothermal synthesis and electromagnetic absorption properties of pyramidal Ni superstructures** Biao Zhao, Gang Shao, Bingbing Fan, Yajun Xie, Binbin Wang, Rui Zhang
- 1440–1447 **Microstructural evolution of MgAl₂O₄ oxide-dispersion-strengthened alloy by mechanical milling and hot isostatic pressing** Lei Dai, Yongchang Liu, Ping Feng, Jun Zhao
- 1448–1455 **Effects of high magnetic field on austenite formation and grain size in a hypereutectoid carbon steel** Junjie Li, Wei Liu
- 1456–1462 **In situ elevated temperature transmission electron microscopy of sensitized aluminum–magnesium alloy treated by ultrasonic impact treatment** Kim N. Tran, Lourdes Salamanca-Riba, Wen-An Chiou
- 1463–1479 **On the atomic interdiffusion in Mg–{Ce, Nd, Zn} and Zn–{Ce, Nd} binary systems** Ahmad Mostafa, Mamoun Medraj
- 1480–1487 **Densification and deformation studies on powder metallurgy Al–TiO₂–Gr composite during cold upsetting** Manickam Ravichandran, Abdullah Naveen Sait, Veeramani Anandakrishnan