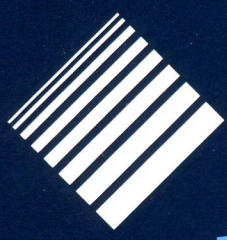
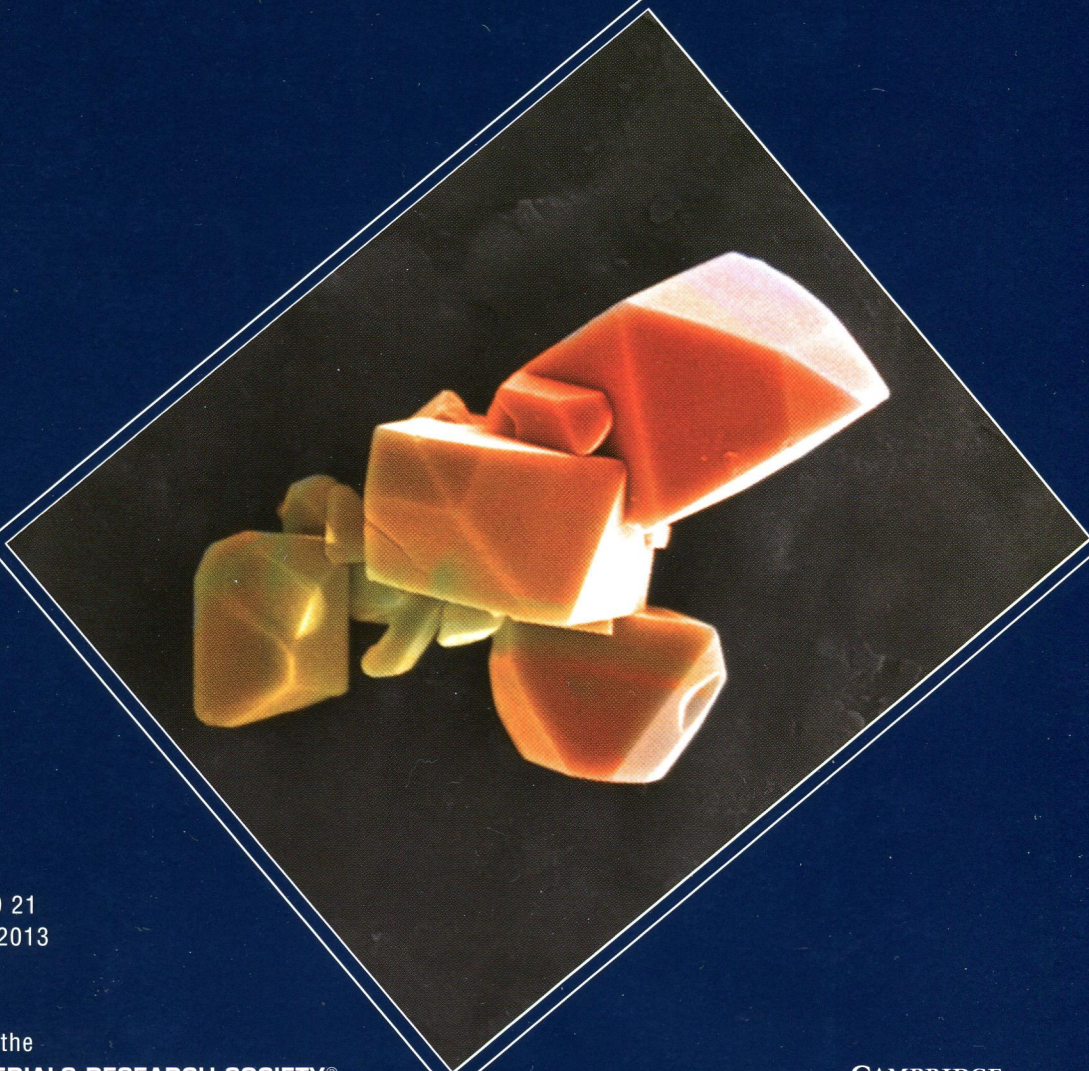


114
780/mrs



jmr

Journal of
MATERIALS RESEARCH



VOLUME 28 • NO 21
NOVEMBER 14, 2013

A publication of the

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

CAMBRIDGE
UNIVERSITY PRESS

Metal oxide nanowire chemical and biochemical sensors

Elisabetta Comini and Camilla Baratto and Guido Faglia and Matteo Ferroni and Andrea Ponzoni and Dario Zappa and Giorgio Sberveglieri

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2911-2931](#)

doi: 10.1557/jmr.2013.304, Published online by Cambridge University Press 06 Nov 2013

BaTiO₃ nanocube and assembly to ferroelectric supracrystals

Kazumi Kato and Ken-ichi Mimura and Feng Dang and Hiroaki Imai and Satoshi Wada and Minoru Osada and Hajime Haneda and Makoto Kuwabara

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2932-2945](#)

doi: 10.1557/jmr.2013.299, Published online by Cambridge University Press 01 Nov 2013

Bulk response and grain boundary microelectrical activity of high T_c BaTiO₃-(Bi_{1/2}K_{1/2})TiO₃-based positive temperature coefficient of resistance ceramics

Mohammad A. Zubair and Hiroaki Takeda and Colin Leach and Robert Freer and Takuya Hoshina and Takaaki Tsurumi

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2946-2959](#)

doi: 10.1557/jmr.2013.282, Published online by Cambridge University Press 23 Oct 2013

Low-field dynamic magnetic alignment and templated grain growth of diamagnetic PMN-PT ceramics

Stephen F. Poterala and Richard J. Meyer and Gary L. Messing

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2960-2969](#)

doi: 10.1557/jmr.2013.303, Published online by Cambridge University Press 06 Nov 2013

Hydrothermal synthesis and optical property of ZnS/CdS composites

Shuling Liu and Zhengqi Wang and Hui Liu and Qingqing Xu

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2970-2976](#)

doi: 10.1557/jmr.2013.272, Published online by Cambridge University Press 15 Oct 2013

Enhanced photocatalytic activity of Eu³⁺- and Gd³⁺-doped BiPO₄

Hongwei Huang and Hongjie Qi and Ying He and Na Tian and Yihe Zhang

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2977-2984](#)

doi: 10.1557/jmr.2013.296, Published online by Cambridge University Press 23 Oct 2013

Electrical study of ZrO₂/Si system formed at different oxidation/nitridation temperatures for extended duration in N₂O ambient

Yew Hoong Wong and Kuan Yew Cheong

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2985-2989](#)

doi: 10.1557/jmr.2013.281, Published online by Cambridge University Press 15 Oct 2013

Sol-gel-derived nanocrystalline aluminum-doped zinc oxide thin films for use as antireflection coatings in silicon solar cells

Amita Verma and Narayanasamy Vijayan

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2990-2995](#)

doi: 10.1557/jmr.2013.273, Published online by Cambridge University Press 14 Oct 2013

Effect of addition of primary tungsten carbide on the properties of ferrotungsten and carbon black powders during mechanical alloying process

Mansour Razavi

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 2996-3002](#)

doi: 10.1557/jmr.2013.269, Published online by Cambridge University Press 14 Oct 2013

Study on precipitation efficiency of solvents in postpreparative treatment of nanocrystals

H.R. Chandan and Balakrishna R. Geetha

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 3003-3009](#)

doi: 10.1557/jmr.2013.268, Published online by Cambridge University Press 14 Oct 2013

Switching magnetic order in nanoporous Pd-Ni by electrochemical charging

Sadhan Ghosh

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 3010-3017](#)

doi: 10.1557/jmr.2013.291, Published online by Cambridge University Press 23 Oct 2013

JOURNAL OF MATERIALS RESEARCH - November 2013 - VOLUME 28 - ISSUE 21

Mixed-mode mechanical responses of Ni(111)/ α -Al₂O₃(0001) interface by first-principle calculations
Xiancong Guo and Zeying Bao and Fulin Shang

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 3018-3028](#)

doi: 10.1557/jmr.2013.294, Published online by Cambridge University Press 21 Oct 2013

On the measurement of energy dissipation using nanoindentation and the continuous stiffness measurement technique
Erik G. Herbert and Kurt E. Johanns and Robert S. Singleton and George M. Pharr

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 3029-3042](#)

doi: 10.1557/jmr.2013.305, Published online by Cambridge University Press 04 Nov 2013

Polymer indentation with mesoscopic molecular dynamics

Javier R. Rocha and Kevin Z. Yang and Travis Hilbig and Witold Brostow and Ricardo Simoes

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 3043-3052](#)

doi: 10.1557/jmr.2013.307, Published online by Cambridge University Press 06 Nov 2013

Effect of gamma ray on isothermal crystallization kinetics of syndiotactic polystyrene

Yi-Wen Ting and Tinh Nguyen and Chen-Ti Hu and Chia-Chieh Chen and Sanboh Lee

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp 3053-3062](#)

doi: 10.1557/jmr.2013.309, Published online by Cambridge University Press 29 Oct 2013

JMR volume 28 issue 21 Cover and Front matter

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp f1-f4](#)

doi: 10.1557/jmr.2013.334, Published online by Cambridge University Press 06 Nov 2013

JMR volume 28 issue 21 Cover and Back matter

[Journal of Materials Research, Volume 28, Issue 21, November 2013, pp b1-b4](#)

doi: 10.1557/jmr.2013.335, Published online by Cambridge University Press 06 Nov 2013

