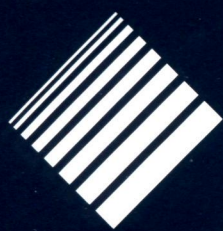


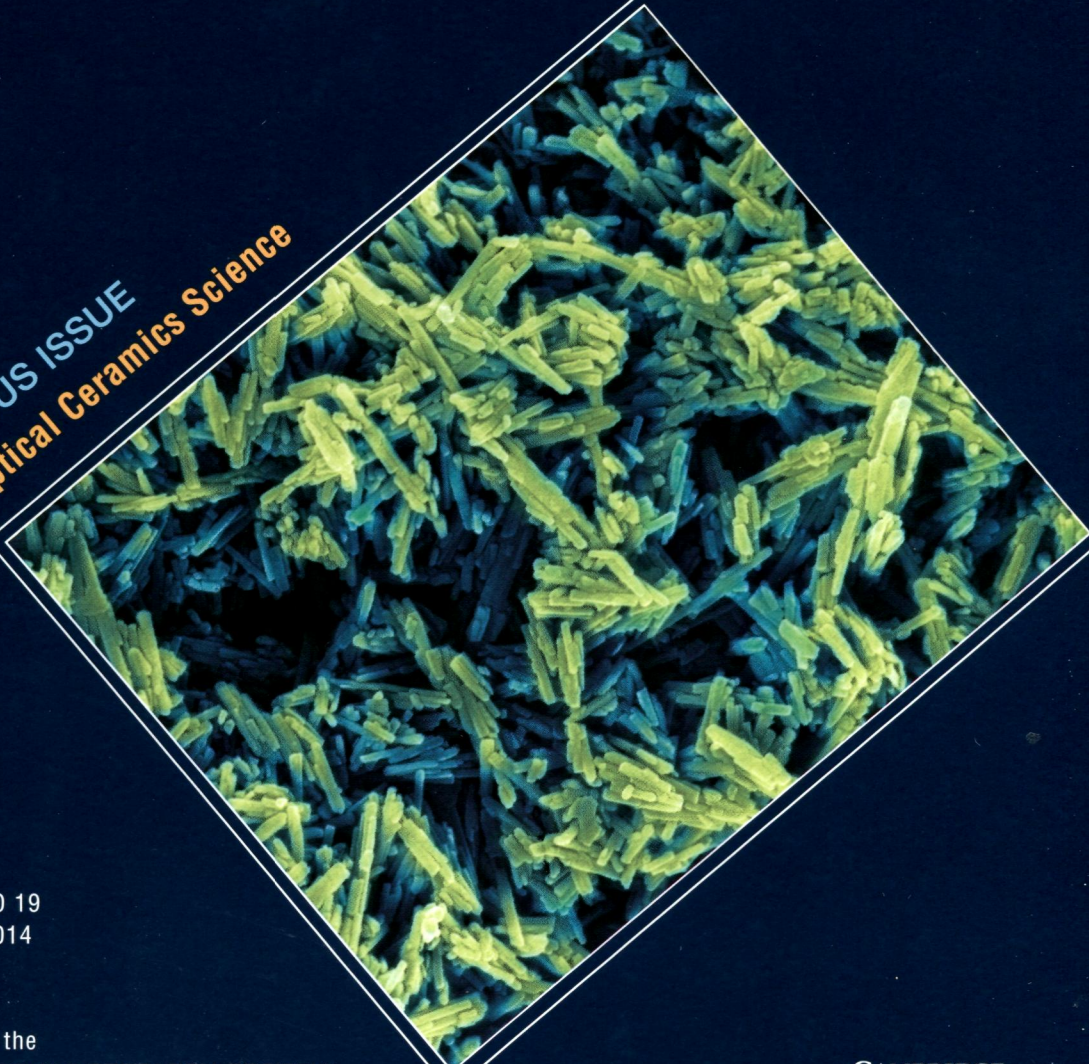
RU
↓80/mrs



jmr

Journal of
MATERIALS RESEARCH

FOCUS ISSUE
Optical Ceramics Science



VOLUME 29 • NO 19
OCTOBER 14, 2014

A publication of the
MRS **MATERIALS RESEARCH SOCIETY**[®]
Advancing materials. Improving the quality of life.

CAMBRIDGE
UNIVERSITY PRESS

OPTICAL CERAMICS SCIENCE

2251 Introduction

Romain Gaume, Yiquan Wu,
Thomas Hartnett

ARTICLES

2252–2259 Consolidation of translucent Ce^{3+} -doped Lu_2SiO_5 scintillation ceramics by pressureless sintering

Lingcong Fan, Ying Shi, Jian Xu,
Jianjun Xie, Fang Lei

2260–2265 Effect of La doping in transparent $0.67\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – 0.33PbTiO_3 ceramics fabricated by conventional sintering

Ichiro Fujii, Hiroyuki Ono,
Takahiro Wada

2266–2271 Low absorption magnesium aluminate spinel windows for high energy laser applications

Guillermo Villalobos,
Shyam Bayya, Woohong Kim,
Colin Baker, Jas Sanghera,
Michael Hunt, Bryan Sadowski,
Fritz Miklos, Ishwar Aggarwal

2272–2287 Surfactant and thioacetamide-assisted reflux synthesis of Bi_2S_3 nanowires

Weidong Xiang, Yuxiang Yang,
Junya Yang, Hongming Yuan,
Jie An, Jing Wei, Xiangnong Liu

2288–2296 Polycrystalline Yb^{3+} – Er^{3+} -co-doped YAG: Fabrication, TEM-EDX characterization, spectroscopic properties, and comparison with the single crystal

Jan Hostaša, Laura Esposito,
Annie Malchère, Thierry Epicier,
Angela Pirri, Matteo Vannini,
Guido Toci, Enrico Cavalli,
Akira Yoshikawa,
Malgorzata Guzik,
Guillaume Alombert-Goget,
Yannick Guyot, Georges Boulon

2297–2302 Influence of temperature on the spark plasma sintering of calcium fluoride ceramics

Shi Chen, Yiquan Wu

2303–2311 Particle size effects on yttrium aluminum garnet (YAG) phase formation by solid-state reaction

Elizabeth R. Kupp,
Sujarinee Kochawattana,
Sang-Ho Lee, Scott Misture,
Gary L. Messing

2312–2317 Tape-casted transparent alumina ceramic wafers

Yan Yang, Yiquan Wu

2318–2324 Influence of sample thickness and concentration of Ce dopant on the optical properties of YAG:Ce ceramic phosphors for white LEDs

Katja Waetzig, Michael Kunzer,
Isabel Kinski

2325–2331 Two-step preparation of AION transparent ceramics with powder synthesized by aluminothermic reduction and nitridation method

Ying Wang, Xiumin Xie, Jianqi Qi,
Jun Wang, Di Wu, Xiaofeng Guo,
Nian Wei, Tiecheng Lu

2332–2337 Expanded phase stability of Gd-based garnet transparent ceramic scintillators

Zachary M. Seeley,
Nerine J. Cherepy,
Stephen A. Payne

2338–2343 Effect of nonstoichiometry on the terahertz absorption of $\text{Y}_3\text{Al}_5\text{O}_{12}$ optical ceramics

Romain Gaume, Daniel Steere,
S.K. Sundaram

2344–2351 Plasma spraying of cerium-doped YAG

Pavel Ctibor, Jan Kubát,
Zdenek Pala, Barbara Nevrlá