

Editor

Deutsche Gesellschaft
für Materialkunde e. V.

DGM

Co-Editors

Société Française de
Métallurgie et de Matériaux

SF2M

Société Française
de Métallurgie et de Matériaux

Swiss Association for Materials
Science and Technology

SVMT

Managing Editors

G. Schmitz (Editor-in-Chief)
Institut für Materialwissenschaft,
Universität Stuttgart
Heisenbergstr. 3
70569 Stuttgart, Germany

J. Bill
Institut für Materialwissenschaft,
Universität Stuttgart
Heisenbergstr. 3
70569 Stuttgart, Germany

F. Haider
Institut für Physik, Experimentalphysik I,
Universität Augsburg
86135 Augsburg, Germany

S. Klein
DGM – Deutsche Gesellschaft für
Materialkunde e.V.
c/o DGM-Inventum GmbH
Marie-Curie-Straße 11–17
53757 Sankt Augustin, Germany

Editorial Office

V. Segar, R. W. M. Segar
Max-Planck-Institut für Intelligente Systeme
(chemals MPI für Metallforschung)
Heisenbergstr. 3
D-70569 Stuttgart, Germany
E-mail: ijmr@is.mpg.de

All correspondence concerning papers under
review or already in production should be ad-
dressed to the **Editorial Office**.

DE GRUYTER

Walter de Gruyter GmbH
Genthiner Straße 13
10785 Berlin, Germany
www.ijmr.de
www.degruyter.com



M. Vogric, E. Povoden-Karadeniz

A multiscale mean field model for elastic properties of hypereutectoid
pearlitic steels with different microstructures [free access] 348

X.-W. Han, Z.-B. Zhang, R.-Y. Zhang, P. Wang

Refining performance and recession of Al–TiO₂–C–La₂O₃ refiners . . . 359

R. K. Singh, A. Telang, S. Das

Abrasive wear response of Al–Si–SiCp composite: Effect of friction
heat and friction coefficient 366

C. Shi, N. Li, W. Zhang

Thermodynamic assessment of the Sb–S and In–S binary systems . . . 373

M. J. Molaei, A. Ataie, S. Raygan

Increased coercivity in recalcined barium ferrite–magnetite
nanocomposites 384

I. Ud Din, T. Saeed, Z. Ahmad, A. I. Alharthi, M. A. Alotaibi, A. Naeem

Reporting the magnetic profile of cobalt ferrite nanoparticles at
different temperatures 391

S. Chaiwichian, B. Samran

Fabrication of monoclinic BiVO₄ photocatalyst film and its
photocatalytic activity for organic pollutant removal 397

M. Doğan, H. Yüksel, B. K. Kizilduman

Characterization and thermal properties of chitosan/perlite
nanocomposites 405

A. Vayyala, A. Aretz, K. Bobzin, W. M. Wietheger, J. Hebing, R. Iskandar, J. Mayer, A. Schmidt

STEM investigations of the influence of copper on alumina scale
detachment during in-situ wetting experiments of Al-7Si-0.3Mg alloy
with 95Sn-5Cu filler metal 415



Y. Zhang, Y. Gao, J. Zhou, D. Sun, H. Li

Microstructure and mechanical properties of laser welded titanium alloy
and stainless steel joint with composite interlayer 422

Notifications

DGM 427

Imprint 428