JOURNAL OF ALLOYS AND COMPOUNDS

(Formerly Journal of the Less-Common Metals)

Editor-in-Chief

Professor K. H. J. Buschow Van der Waals-Zeeman Laboratorium Universiteit van Amsterdam Valckenierstraat 65 1018 XE Amsterdam, Netherlands Fax: +31 (20) 525 5788 e-mail: buschow@science.uva.nl

Editors

Professor H. Kleinke Dept. of Chemistry University of Waterloo Waterloo, Ontario N2L 3G1 Canada Tel.: +1 (519) 885 1211 Fax: +1 (519) 746 0435 e-mail: jalcom@uwaterloo.ca

Professor H.G. Pan

Department of Materials Science and Engineering Zhejiang University Hangzhou 310029 P.R. China Tel. & Fax: +86 (571) 87952615 e-mail: Honggepan@zju.edu.cn

Professor H. Sakaguchi

Department of Materials Science Tottori University Minami 4-101, Koyama-cho Tottori 680-0945 Japan Tel. & Fax: +81 (857) 31 5265 e-mail: sakaguch@chem.tottori-u.ac.jp

Professor L. Schultz

Leibniz -Institut fuer Festkoerper- und Werkstoffforschung (IFW) Dresden Helmholtzstrasse 20D-01069 Dresden, Germany Tel: +49-351-4659-100 Fax: +49-351-4659-500 e-mail: I.schultz@ifw-dresden.de

Honorary Editors

Professor G.-Y. Adachi Osaka University Faculty of Engineering Dept. of Applied Chemistry Yamadakami/Suita Osaka 565, Japan

Professor H. F. Franzen lowa State University Dept. of Chemistry & Ames Lab Ames, IA 50011, USA

Professor G. J. Miller Iowa State University Dept. of Chemistry Ames, IA 50011, USA

Professor Ch. J. Raub

Waldsiedlung 17 D-73525 Schwäbisch Gmünd Germany

Professor H. Uchida

Dept. of Nuclear Engineering School of Engineering Tokai University 4-1-1 Kita-Kaname Hiratsuka-City kanagawa 259-1292 Jaoan

Editorial Advisory Board

A. V. Andreev Institute of Physics Academy of Sciences Na Slovance 2 18221 Prague 8, Czech Republic

A. Dahle

Materials Engineering Room 415, Bldng 43, University of Queensland Brisbane Qld 4072 Australia

Scope

Papers and communications should be concerned with the chemistry, metallurgy, physics or inter-related aspects of alloys and compounds or their applications.

Types of Contributions

- original research work not already published
- plenary lectures and/or individual papers given at conferences
- review articles; authors should first consult one of the Editors
- letters
 book reviews

Contributions are accepted on the understanding that the authors have obtained any necessary authority for publication.

Publication information: Journal of Alloys and Compounds (ISSN 0925- 8388). For 2011, volume 509 is scheduled for publication by Elsevier (Radarweg 29, 1043 NX Amsterdam, the Netherlands). Further information on this journal is available from the Publisher or from the Elsevier Customer Service Department nearest you or from this journal's website (http://www.elsevier.com/locate/jallcom). Information on other Elsevier products is available through Elsevier's website (http://www.elsevier.com). Periodicals Postage Paid at Rahway, NJ, and at additional mailing offices.

Orders, claims, and journal enquiries: please contact the Elsevier Customer Service Department nearest you:

St. Louis: Elsevier Customer Service Department, 3251 Riverport Lane, Maryland Heights, MO 63043, USA; phone: (877) 8397126 [toll free within the USA]; (+1) (314) 4478878 [outside the USA]; fax: (+1) (314) 4478077; e-mail: JournalCustomerService-usa@elsevier.com

Printed in the Netherlands

F. J. Di Salvo Cornell University Baker Laboratory Dept. of Chemistry Ithaca, NY 14853, USA

T. B. Flanagan The University of Vermont Dept. of Chemistry Cook Physical Science Bldg. Burlington, VT 05405, USA

J. Huot

Hydrogen Research Institute Université du Québec à Trois-Rivières G9A 5H7, Trois-Rivières Québec, Canada

D. C. Johnson Dept. of Chemistry University of Oregon Eugene, OR 97403, USA

E. J. Mittemeijer Max Planck Institute for Metals Research Heisenbergstrasse 3 D-70569 Stuttgart, Germany

Y. Mozharivskyj

ABB 423, Department of Chemistry and Chemical Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada, L8S 4M1

R. Nesper

Anorganisch Chemie ETH Zentrum, CAB C18.2 8092 Zurich, Switzerland

D. E. Peterson Los Alamos National Laboratory Superconductivity Technology Center Mailstop K763 Los Alamos, NM 87545, USA

H. Sato, Dept. of Physics Tokyo Metropolitan University Tokyo 192-0397 Japan

W. Stręk

Institute of Low Temperature and Structure Research PAN, P.O. Box 1410 50-950 Wrocław Poland

K. Suzuki

Advanced Institute of Materials Science Moniwadai 2-6-8 Taihaku-ku Sendai 982-0252, Janan

I. Van Driessche

Department of Inorganic and Physical Chemistry, Ghent University, Sint-Pietersnieuwstraat 25, B-9000, Ghent, Belgium

T. Woodcock

IFW Dresden P.O. Box 270116 01171 Dresden Germany

T. Yamase

Tokyo Inst. of Technology 4259 Nagatsuda, Midoriku Yokohama 227, Japan

C.-L. Yeh

Dept. of Aerospace and Systems Engineering Feng Chia University 40724 Taichung Taiwan

H. Zur Loye Department of Chemistry/ Biochemistry University of South Carolina Columbia, SC 29208 USA

Oxford: Elsevier Customer Service Department, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK; phone: (+44) (1865) 843434; fax: (+44) (1865) 843970; e-mail: JournalsCustomerServiceEMEA@elsevier.com

Tokyo: Elsevier Customer Service Department, 4F Higashi-Azabu, 1-Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5037; fax: (+81) (3) 5561 5047; e-mail: JournalsCustomerServiceJapan@elsevier.com

Singapore: Elsevier Customer Service Department, 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone: (+65) 63490222; fax: (+65) 67331510; e-mail: JournalsCustomerServiceAPAC@elsevier.com

USA mailing notice: *Journal of Alloys and Compounds* (ISSN 0925-8388) is published semimonthly by Elsevier B.V. (Radarweg 29, 1043 NX Amsterdam, The Netherlands). Periodical postage paid at Rahway NJ and additional mailing offices.

USA POSTMASTER: Send change of address to *Journal of Alloys and Compounds*, Elsevier Customer Service Department, 3251 Riverport Lane, Maryland Heights, MO 63043, USA.

AIRFREIGHT AND MAILING in USA by Mercury International Limited, 365, Blair Road, Avenel, NJ 07001.

Advertising information: If you are interested in advertising or other commercial opportunities please e-mail Commercialsales@elsevier.com and your enquiry will be passed to the correct person who will respond to you within 48 hours.