# 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: Lschultz@ifw-dresden.de

# Honorary Editors

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

#### 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 2010, volumes 488–510 are scheduled for publication. Subscription prices are available upon request from the Publisher or from the Elsevier Customer Service Department nearest you or from this journal's website (http://www.elsevier.com/locate/jallcom). Further information is available on this journal and other Elsevier products through Elsevier's website (http://www. elsevier.com). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

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

Professor H. F. Franzen Iowa 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 Japan

#### Editorial Advisory Board A. V. Andreev

A Contraction of Physics Academy of Sciences Na Slovance 2 18221 Prague 8, Czech Republic

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

# J. Etourneau

Université de Bordeaux I Institut de Chimie de la Matiére Condensée de Bordeaux (ICMCB), CNRS 351 cours de la Libération F-33405 Talence Cedex, France

T. B. Flanagan The University of Vermont Dept. of Chemistry Cook Physical Science Bldg. Burlington, VT 05405, USA D. Gignoux Laboratoire Louis Néel C.N.R.S., B.P. 166X 38042 Grenoble Cedex France

Y. Grin Max-Planck-Institut für Chemische Physik fester Stoffe Nothnitzer Str. 40 D-01187 Dresden, Germany

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

M. G. Kanatzidis Michigan State University Dept. of Chemistry East Lansing, MI 48824-1322, USA

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

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

K. R. Poeppelmeier

Northwestern University Dept. of Chemistry 2145 Sheridan Road Evanston, IL 60208-3113, USA H. Sato, Dept. of Physics Tokyo Metropolitan University Tokyo 192-0397 Japan

# V. Sechovsky

Department of Electronic Structures Faculty of Mathematics and Physics Charles University Ke Karlovu 5 121 16 2 Prague 2 Czech Republic

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, Japan

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.

Professor H. F. Franzen chow Iowa State University