

# 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 Werkstofforschung (IFW) Dresden  
Helmholtzstrasse  
20D-01069 Dresden, Germany  
Tel: +49-351-4659-100  
Fax: +49-351-4659-500  
e-mail: l.schultz@ifw-dresden.de

## H. Zur Loye

Department of Chemistry/Biochemistry  
University of South Carolina  
Columbia, SC 29208, USA  
Tel: 803-777-6916  
Fax: 803-777-8508  
e-mail: JALCOM@chem.sc.edu

## Honorary Editors

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

## 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**  
Institute of Physics  
Academy of Sciences  
Na Slovance 2  
18221 Prague 8, Czech Republic

## A. Dahle

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

## 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  
Moniwa-dai 2-6-8  
Taihaku-ku  
Sendai 982-0252, Japan

## 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

## 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](mailto:JournalCustomerService-usa@elsevier.com)

**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](mailto: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](mailto: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](mailto:JournalsCustomerServiceAPAC@elsevier.com)

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