

# JOURNAL OF POWER SOURCES

The International Journal on the Science and Technology of Electrochemical Energy Systems

---

## Regional Editor for N. & S. America

C.K. Dyer  
16 Seven Oaks Circle,  
Madison, NJ 07940-1314, USA

## Asia-Pacific Regional Editor

D.A.J. Rand  
CSIRO Energy Technology, Bayview Avenue,  
Box 312, Clayton South, Vic. 3169, Australia

## Regional Editor for Japan & P.R. China

Professor Zempachi Ogumi  
Department of Energy & Hydrocarbon Chemistry  
Graduate School of Engineering  
Kyoto University  
Sakyo-ku, Kyoto 606-8501, Japan

## European Regional Editor

B. Scrosati  
Department of Chemistry  
University of Rome 'La Sapienza'  
Piazzale Aldo Moro, 5  
00185 Rome, Italy

## Special Issues Coordinating Editor

P.T. Moseley  
International Lead Zinc Research Organization Inc.  
2525 Meridian Parkway  
PO Box 12036  
Research Triangle Park, NC 27709, USA

## Founding Editor

D.H. Collins  
Paraje Ermita 6  
04288 Bedar, Spain

## Editorial Board

K.M. Abraham (Needham, MA, USA)  
A.J. Appleby (College Station, TX, USA)  
M. Armand (Montreal, Que., Canada)  
K. Bullock (Conshohocken, PA, USA)  
R.M. Dell (Abingdon, UK)  
C. Delmas (Pessac, France)  
S. Freni (Messina, Italy)  
J. Garche (Ulm, Germany)  
P. Grimes (Scotch Plains, NJ, USA)  
R.A. Huggins (Kiel, Germany)  
K.V. Kordesch (Graz, Austria)  
A.R. Landgrebe (Long Neck, DE, USA)  
M. Mastragostino (Bologna, Italy)  
B. McNicol (Kelsall, UK)  
K. Micka (Prague, Czech Republic)  
R.J. Neat (Didcot, UK)  
R.F. Nelson (Golden, CO, USA)  
T. Osaka (Tokyo, Japan)  
K.-i. Ota (Yokohama, Japan)  
J. Owen (Southampton, UK)  
D. Pavlov (Sofia, Bulgaria)  
N. Penazzi (Torino, Italy)  
K. Peters (Manchester, UK)  
M.M. Thackeray (Argonne, IL, USA)  
C.A. Vincent (St. Andrews, UK)

---

## Aims and Scope

The *Journal of Power Sources* provides an interdisciplinary forum on all aspects of the science, technology and commercialization of primary/secondary batteries and fuel cells, as well as on their application in important and emerging markets such as:

- standby- and portable-power systems
- load-levelling facilities
- electric vehicles
- remote wind- and/or solar-based power supplies
- satellites and deep space probes

## Types of Contributions

- Original research papers within the scope of the journal
- State-of-the-art reviews
- Short communications
- Letters to the Editors
- Technical updates
- Conference proceedings
- Recent publication lists (bibliographies)
- Conference calendar
- Book reviews

**Publication information:** *Journal of Power Sources* (ISSN 0378-7753).

For 2002, volumes 101-110 are scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/jpower>). Further information is available on this journal and other Elsevier Science 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 Product Enquiries (no manuscript enquiries)

Please contact the Customer Support Department at the Regional Sales Office nearest you:

### New York

Elsevier Science  
P.O. Box 945  
New York, NY 10159-0945, USA  
Tel.: (+1) 212-633-3730  
[Toll free number for North American customers: 1-888-4ES-INFO (437-4636)]  
Fax: (+1) 212-633-3680  
E-mail: [usinfo-f@elsevier.com](mailto:usinfo-f@elsevier.com)

### Tokyo

Elsevier Science  
9-15 Higashi-Azabu 1-chome  
Minato-ku, Tokyo 106-0044  
Japan  
Tel.: (+81) 3-5561-5033  
Fax: (+81) 3-5561-5047  
E-mail: [info@elsevier.com](mailto:info@elsevier.com)

### Amsterdam

Elsevier Science  
P.O. Box 211  
1000 AE Amsterdam  
The Netherlands  
Tel.: (+31) 20-4853757  
Fax: (+31) 20-4853432  
E-mail: [nlinfo-f@elsevier.com](mailto:nlinfo-f@elsevier.com)

### Singapore

Elsevier Science  
No. 1 Temasek Avenue  
# 17-01 Millenia Tower  
Singapore 039192  
Tel.: (+65) 434-3727  
Fax: (+65) 337-2230  
E-mail: [asiainfo@elsevier.com.sg](mailto:asiainfo@elsevier.com.sg)

**USA mailing notice:** *Journal of Power Sources* (ISSN 0378-7753) is published monthly by Elsevier Science B.V. (P.O. Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA US\$ 3073 (valid in North, Central and South America), including air speed delivery. Periodicals postage rate paid at Jamaica, NY 11431.

**USA POSTMASTER:** Send address changes to *Journal of Power Sources*, Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.

**AIRFREIGHT AND MAILING** in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.