

# JOURNAL OF SOLID STATE CHEMISTRY

## Editor

M. G. Kanatzidis  
Department of Chemistry  
Michigan State University  
320 Chemistry Building  
East Lansing, Michigan 48824  
E-mail: jssc@argus.cem.msu.edu  
Fax: (517) 353-1793

## Associate Editor

S. M. Kauzlarich  
Department of Chemistry  
University of California  
One Shields Avenue  
Davis, California 95616  
E-mail: jssc@chem.ucdavis.edu  
Fax: (530) 752-8995

## Associate Editor

H.-C. zur Loye  
Department of Chemistry  
University of South Carolina  
Columbia, South Carolina 29208  
E-mail: jssc@mail.chem.sc.edu  
Fax: (803) 777-8508

## Associate Editor

M. Rosseinsky  
Department of Chemistry  
University of Liverpool  
Liverpool L69 7ZD UK  
E-mail: m.j.rosseinsky@liverpool.ac.uk  
Fax: 44(0) 151 7943587

## Editorial Advisory Board

M. A. Alario-Franco  
Universidad Complutense  
Madrid, Spain

Th. E. Albrecht-Schmitt  
Auburn University  
Auburn, Alabama, USA

E. Antipov  
Moscow State University  
Moscow, Russia

P. Attfield  
University of Edinburgh  
Edinburgh, UK

P. D. Battle  
University of Oxford  
Oxford, UK

W. Bensch  
University of Kiel  
Kiel, Germany

J. H. Choy  
Seoul National University  
Seoul, Korea

A. Clearfield  
Texas A&M University  
College Station, Texas, USA

J. Darriet  
Institut de Chimie de la Matière  
Condensée de Bordeaux, CNRS  
Pessac, France

C. Delmas  
CNRS and Ecole  
Nationale Sup., Pessac, France

F. J. DiSalvo  
Cornell University  
Ithaca, New York, USA

R. Dronskowski  
University of Aachen  
Aachen, Germany

J. S. O. Evans  
University of Durham  
Durham, UK

G. Ferey  
Université de Versailles  
Versailles, France

J. B. Goodenough  
University of Texas  
Austin, Texas, USA

J. E. Greedan  
McMaster University  
Hamilton, Ontario, Canada

M. Greenblatt  
Rutgers University  
Piscataway, New Jersey, USA

Y. Grin  
Max-Planck-Institut für Chemische  
Physik Fester Stoffe  
D-01187 Dresden, Germany

J. M. Honig  
Purdue University  
West Lafayette, Indiana, USA

J. A. Ibers  
Northwestern University  
Evanston, Illinois, USA

S. Iida  
University of Tokyo  
Tokyo, Japan

A. J. Jacobson  
University of Houston  
Houston, Texas, USA

M. Jansen  
Max Planck Institut Festkörperforschung  
Stuttgart, Germany

S. Jobic  
Université de Nantes  
Nantes, France

J. D. Jorgensen  
Argonne National Laboratory  
Argonne, Illinois, USA

K. H. Lii  
National Central University  
Chungli, Taiwan

T. Mallouk  
Pennsylvania State University  
University Park, Pennsylvania, USA

A. Mar  
University of Alberta  
Edmonton, Alberta, Canada

G. Miller  
Iowa State University  
Ames, Iowa, USA

T. Pinnavaia  
Michigan State University  
East Lansing, Michigan, USA

K. Poeppelmeier  
Northwestern University  
Evanston, Illinois, USA

R. Pöttgen  
Universität Münster  
Münster, Germany

C. N. R. Rao  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Bangalore, India

B. Raveau  
ISMRA—Université de Caen  
Caen, France

Peter Rogl  
Universität Wien  
Wien, Austria

W. Schnick  
Ludwig-Maximilians-Universität  
München, München, Germany

Arthur W. Sleight  
Oregon State University  
Corvallis, Oregon, USA

Galen D. Stucky  
University of California  
Santa Barbara, California, USA

M. Takano  
Kyoto University  
Kyoto-fu, Japan

C. C. Torardi  
DuPont Company  
Wilmington, Delaware, USA

T. A. Vanderah  
National Institute of Standards and  
Technology, Gaithersburg, Maryland, USA

G. Van Tendeloo  
University of Antwerp (RUCA)  
Antwerpen, Belgium

Ray L. Withers  
Australian National University  
Canberra, Australia

P. Woodward  
Ohio State University  
Columbus, Ohio, USA

Founding Editors: R. E. Hughes M. J. Sienko A. Wold

Editor 1983–1999: J. M. Honig

Cover figure: The  $\text{Mn}_4\text{Ir}_7\text{Ge}_6$  crystal structure. The box (black line) of one unit cell is drawn, with the cell contents of the range  $0.25 < x < 1.25$ ;  $-0.25 < y < 1.25$ ;  $0.25 < z < 0.75$  inserted. Links between Mn atoms are added to illustrate the  $\text{Cu}_3\text{Au}$ -related sub-units (Mn atoms at the corners).