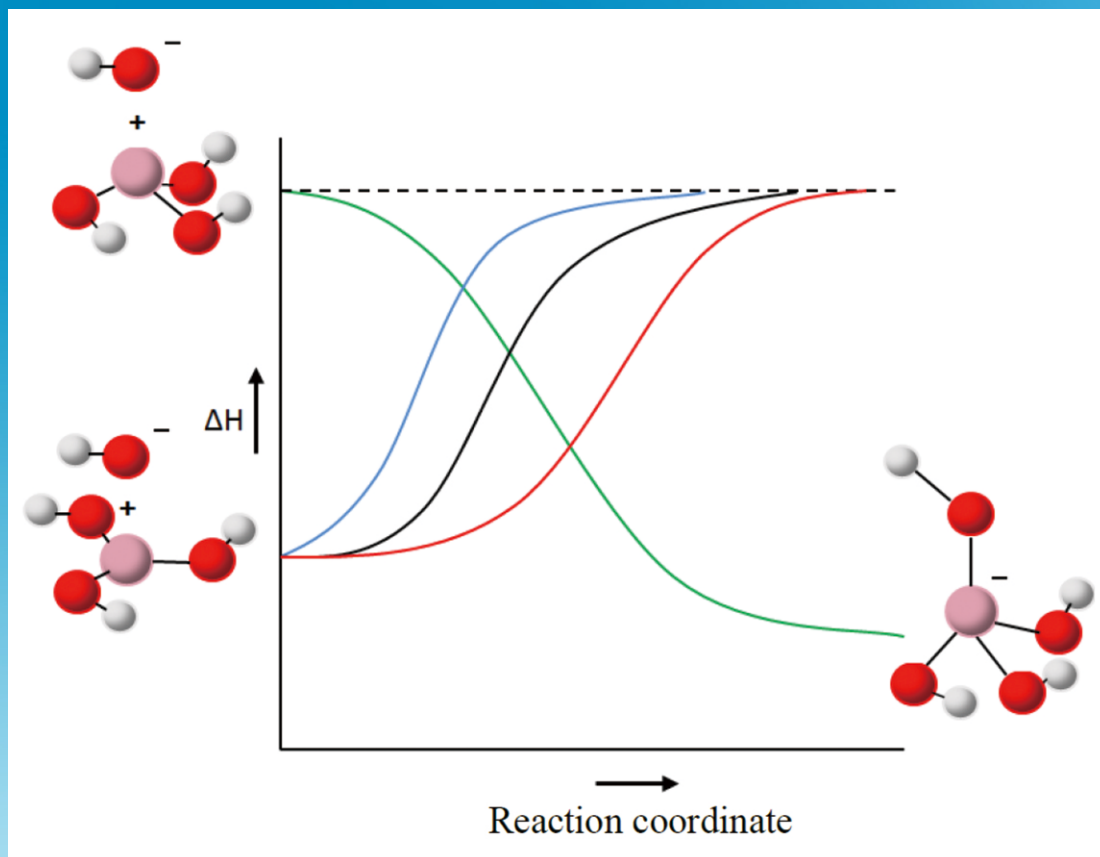


Open Journal of Physical Chemistry



ISSN: 2162-1969



Journal Editorial Board

ISSN: 2162-1969 (Print), 2162-1977 (Online)

<http://www.scirp.org/journal/ojpc>

Editor-in-Chief

Prof. Kalliat T. Valsaraj

Louisiana State University, USA

Editorial Board

Prof. Tapio Ala-Nissilä

Aalto University School of Science and Technology, Finland

Dr. Subbiah Alwarappan

University of South Florida, USA

Dr. Jeng-Da Chai

National Taiwan University, Chinese Taipei

Prof. Haisheng Chen

Chinese Academy of Sciences, China

Dr. Yongsheng Chen

Georgia Institute of Technology, USA

Dr. Zhengdong Cheng

Texas A&M University, USA

Dr. Krishnan Achary Damodaran

University of Pittsburgh, USA

Dr. Ramesh L. Gardas

Indian Institute of Technology Madras, India

Prof. Santamaría Holek Iván

Universidad Nacional Autónoma de México, México

Dr. Peng Jiang

University of Florida, USA

Dr. Maksym Kryvohuz

California Institute of Technology, USA

Dr. Subrata Kundu

Central Electrochemical Research Institute (CECRI), India

Prof. Yue Li

Chinese Academy of Sciences, China

Dr. Shiang-Tai Lin

National Taiwan University, Chinese Taipei

Dr. Manosh C. Paul

University of Glasgow, UK

Prof. Andre Silva Pimentel

Pontifical Catholic University of Rio de Janeiro, Brazil

Dr. Madhumita B. Ray

University of Western Ontario, Canada

Dr. M. V. Reddy

National University of Singapore, Singapore

Dr. Stephan P. A. Sauer

University of Copenhagen, Denmark

Dr. Yang-Hsin Shih

National Taiwan University, Chinese Taipei

Prof. Ricardo Alexandre Galdino da Silva

Universidade Federal de São Paulo, Brazil

Dr. Subith S. Vasu

University of Central Florida, USA

Prof. Jingsong Zhang

University of California, USA

Prof. Tierui Zhang

Chinese Academy of Sciences (CAS), China

Dr. Xinyi Zhang

Monash University, Australia

Prof. Qingdong Zheng

Chinese Academy of Sciences, China

Table of Contents

Volume 5 Number 1

February 2015

**Interconversion between Planar-Triangle, Trigonal-Pyramid and Tetrahedral Configurations of Boron ($\text{B}(\text{OH})_3$ - $\text{B}(\text{OH})_4^-$), Carbon (CH_3^+ - CH_3X) and for the Group 15 Elements as Nitrogen (NH_3 - NH_4^+).
A Modelling Description with *ab Initio* Results and Pressure-Induced Experimental Evidence**

H. M. Buck.....1

Thermochemical Parameters of Tetramethylthiourea Adducts of Certain Metal(II) Bromides

P. O. Dunstan.....9

Open Journal of Physical Chemistry (OJPC)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Physical Chemistry* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2015 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2015 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

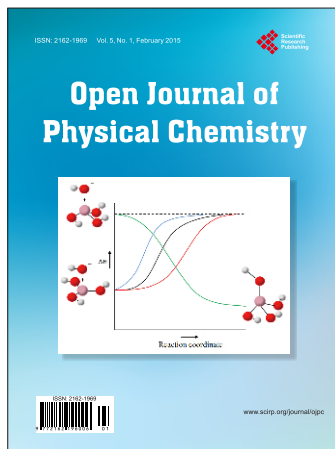
DISCLAIMER OF LIABILITY

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: ojpc@scirp.org



Open Journal of Physical Chemistry

ISSN: 2162-1969 (Print), 2162-1977 (Online)

<http://www.scirp.org/journal/ojpc>

Editor-in-Chief

Prof. Kalliat T. Valsaraj

Louisiana State University, USA

Editorial Board

Prof. Tapio Ala-Nissilä

Dr. Subbiah Alwarappan

Dr. Jeng-Da Chai

Prof. Haisheng Chen

Dr. Yongsheng Chen

Dr. Zhengdong Cheng

Dr. Krishnan Achary Damodaran

Dr. Ramesh L. Gardas

Prof. Santamaría Hólek Iván

Dr. Peng Jiang

Dr. Maksym Kryvohuz

Dr. Subrata Kundu

Prof. Yue Li

Dr. Shiang-Tai Lin

Dr. Manosh C. Paul

Prof. Andre Silva Pimentel

Dr. Madhumita B. Ray

Dr. M. V. Reddy

Dr. Stephan P. A. Sauer

Dr. Yang-Hsin Shih

Prof. Ricardo Alexandre Galdino da Silva

Dr. Subith S. Vasu

Prof. Jingsong Zhang

Prof. Tierui Zhang

Dr. Xinyi Zhang

Prof. Qingdong Zheng

Open Journal of Physical Chemistry (OJPC) is an international journal dedicated to the latest advancement of physical chemistry. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of physical chemistry.

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Biophysical chemistry
- Chemical kinetics
- Electrochemistry
- Materials science
- Micromeritics
- Photochemistry
- Physical organic chemistry
- Quantum chemistry
- Solid-state chemistry
- Spectroscopy
- Surface chemistry
- Thermochemistry

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Website and E-Mail

<http://www.scirp.org/journal/ojpc>

E-mail: ojpc@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research
Publishing**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org