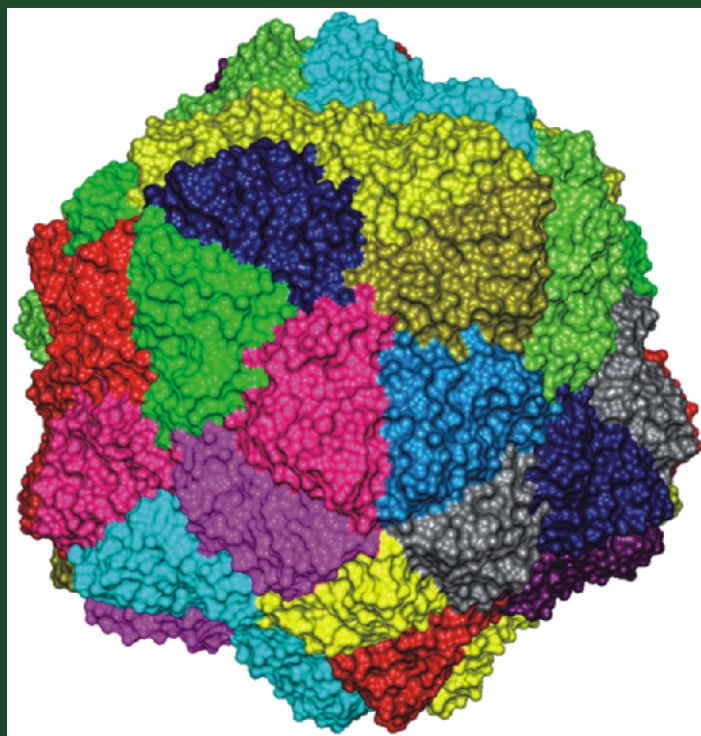


ISSN: 2153-036X Vol. 3, No. 1, February 2012



Scientific
Research

Journal of Biophysical Chemistry



ISSN 2153-036X



9 772153 036007 01

www.scirp.org/journal/jbpc

Journal Editorial Board

ISSN 2153-036X (Print) ISSN 2153-0378 (Online)

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

Editor-in-Chief

Prof. Cornelis J. Van der Schyf Northeastern Ohio Universities Colleges of Medicine and Pharmacy, USA

Editorial Board (According to Alphabet)

Prof. Bilian Chen	Fujian Normal University, China
Dr. Huizhong Chen	National Center for Toxicological Research, USA
Prof. Ismail Tuncer Degim	Gazi University, Turkey
Prof. Gang Jin	Chinese Academy of Sciences, China
Dr. Rizwan Hasan Khan	Aligarh Muslim University, India
Prof. Alexander A. Konstantinov	Moscow State University, Russia
Prof. Majid Monajjemi	Islamic Azad University, Iran
Prof. Davood Nematollahi	BuAli-Sina University, Iran
Prof. Kazuhisa Nishizawa	Teikyo University, Japan
Dr. Yoshiaki Ohashi	Human Metabolome Technologies, Inc., Japan
Dr. Marcela Pagano	Federal University of Ceará—UFC, Brazil
Prof. Andrei P. Surguchov	Kansas University Medical Center, USA
Dr. Eric Robert Tkaczyk	University of Tartu Medical School, Estonia
Prof. Armen Trchounian	Yerevan State University, Armenia
Dr. Izabela Tworowska	Therapeutic Nuclear Medicine Research Institute, USA
Prof. Suresh C. Tyagi	University of Louisville, USA
Dr. Qihui Wu	La Trobe University, Australia
Prof. Ling Yang	Chinese Academy of Sciences, China
Prof. Anyun Zhang	Zhejiang University, China
Prof. Hailiang Zhu	Nanjing University, China
Prof. Erik R. P. Zuiderweg	University of Michigan, USA

Editorial Assistant

Jing Guo Scientific Research Publishing, USA Email: jbpc@scirp.org

Guest Reviewers

Mehdi Hasan	Rita Tostes
Yuk Sham	Carrie Wilmot
Andrei Surguchov	

TABLE OF CONTENTS

Volume 3, Number 1, February 2012

Thermodynamic contributions of 5'- and 3'-single strand dangling-ends to the stability of short duplex DNAs

R. Dickman, F. Manyanga, G. P. Brewood, D. J. Fish, C. A. Fish, C. Summers, M. T. Horne, A. S. Benight.....1

Steady-state kinetics of *Roystonea regia* palm tree peroxidase

L. S. Zamorano, N. H. Cuadrado, P. P. Galende, M. G. Roig, V. L. Shnyrov.....16

A direct gas chromatography-mass spectrometry (GC-MS) method for the detection of orellanine present in stomach content (Part I)

I. Brondz, E. Nevo, S. P. Wasser, A. Brondz.....29

An interactive 3D viewer of molecules compatible with the suite of ANTHERPROT programs

G. Deléage.....35

Electrochemical investigation on the film of L-cysteine self-assembled to nanoparticles on a gold electrode

W. T. Wang, C. M. Wang, X. Q. Lu.....39

Electroporation and electroporabilization of lipid bilayer membranes in the course of snakes' venom intoxication

N. Ayvazyan, N. Ghazaryan, N. Zaqaryan.....44

Quantitative structure-property relationship (QSPR) model for predicting acidities of ketones

Y. Y. Yuan, P. D. Mosier, Y. Zhang.....49

Exploring MIA-QSARs for farnesyltransferase inhibitory effect of antimalarial compounds refined by docking simulations

O. Deeb, S. Alfalah, M. P. Freitas, E. F. F. da Cunha, T. C. Ramalho.....58

“Doubling” of local photon emissions when two simultaneous, spatially-separated, chemiluminescent reactions share the same magnetic field configurations

B. T. Dotta, M. A. Persinger.....72

Laccases stabilization with phosphatidylcholine liposomes

M. Martí, A. Zille, A. Cavaco-Paulo, J. L. Parra, L. Coderch.....81

Mechanism of chemiluminescence in Fenton reaction

I. P. Ivanova, S. V. Trofimova, I. M. Piskarev, N. A. Aristova, O. E. Burhina, O. O. Soshnikova.....88

The figure on the front cover is from the article published in Journal of Biophysical Chemistry, 2012, Vol. 3, No. 1, pp. 35-38 by Gilbert Deléage.

Journal of Biophysical Chemistry

Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$39 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©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

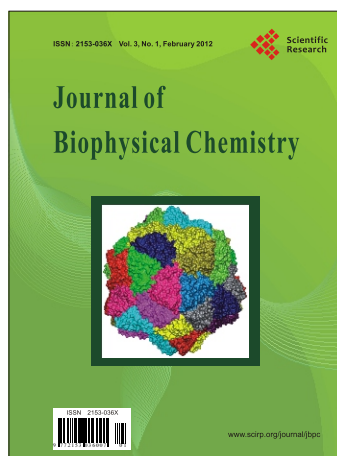
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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: jbpc@scirp.org



Journal of Call for Papers Biophysical Chemistry

ISSN 2153-036X (Print) ISSN 2153-0378 (Online)

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

Journal of Biophysical Chemistry (JBPC) is an international journal dedicated to the latest advancement in related research fields. 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 aspects of biophysical chemistry.

Editor-in-Chief

Prof. Cornelis J. Van der Schyf Northeastern Ohio Universities Colleges of Medicine and Pharmacy, USA

Editorial Board (According to Alphabet)

Prof. Bilian Chen
Dr. Huizhong Chen
Prof. Ismail Tuncer Degim
Prof. Gang Jin
Dr. Rizwan Hasan Khan
Prof. Alexander A. Konstantinov
Prof. Majid Monajjemi
Prof. Davood Nematollahi
Prof. Kazuhisa Nishizawa
Dr. Yoshiaki Ohashi
Dr. Marcela Pagano
Prof. Andrei P. Surguchov
Dr. Eric Robert Tkaczyk
Prof. Armen Trchounian
Dr. Izabela Tworowska
Prof. Suresh C. Tyagi
Dr. Qihui Wu
Prof. Ling Yang
Prof. Anyun Zhang
Prof. Hailiang Zhu
Prof. Erik R. P. Zuiderweg

Fujian Normal University, China
National Center for Toxicological Research, USA
Gazi University, Turkey
Chinese Academy of Sciences, China
Aligarh Muslim University, India
Moscow State University, Russia
Islamic Azad University, Iran
BuAli-Sina University, Iran
Teikyo University, Japan
Human Metabolome Technologies, Inc., Japan
Federal University of Ceará—UFC, Brazil
Kansas University Medical Center, USA
University of Tartu Medical School, Estonia
Yerevan State University, Armenia
Therapeutic Nuclear Medicine Research Institute, USA
University of Louisville, USA
La Trobe University, Australia
Chinese Academy of Sciences, China
Zhejiang University, China
Nanjing University, China
University of Michigan, USA

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

Biomolecular and Drug Databases
Biomolecular Free Energy
Biomolecular Modeling
Biomolecular Structure
Computational Biology
Computational Chemistry
Covering Dynamics
Gene Regulation
Graph/Network Theory
Medicine and Neuroscience
Molecular Docking
Molecular Dynamics Simulation
Molecular Evolutionary Genetics

Neural Networks
Nucleic Acid Structure
Patch Clamping
Pharmacology and Physiology
Quantum Chemistry
Sequence Alignment
Single Protein Dynamics
siRNA
Soft Matter Physics
Stochastic Processes
Structural Alignment
Structural Biology
Structure-Activity Relationships

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the *JBPC*.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

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

E-mail: jbpc@scirp.org