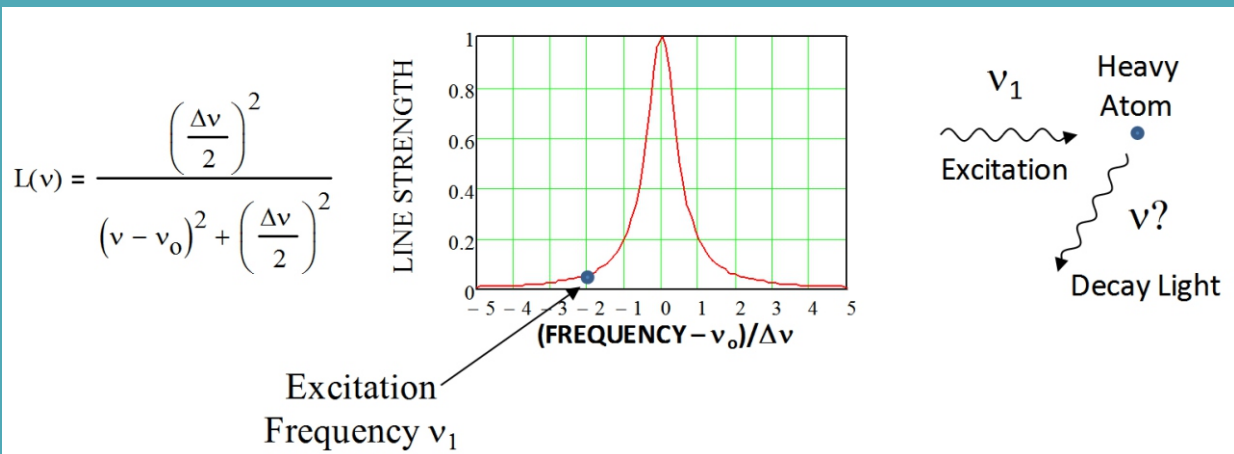


Optics and Photonics Journal



ISSN: 2160-8881



Journal Editorial Board

ISSN: 2160-8881 (Print), 2160-889X (Online)

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

Editors-in-Chief

Prof. Bouzid Menaa

Fluorotronics Inc., USA

Prof. Anhui Liang

Nanjing University of Posts and Telecommunications, China

Editorial Board

Dr. Kang Zhang

GE Global Research, USA

Dr. Kaikai Xu

University of Electronic Science and Technology of China, China

Dr. Yong Wang

Canalaser Technologies Co., Ltd., China

Dr. Shuping Wang

University of North Texas, USA

Dr. Mengtao Sun

Institute of Physics, Chinese Academy of Sciences, China

Dr. Soheil Sharifi

Ferdowsi University of Mashhad, Iran

Prof. Haixia Shang

University of Washington, USA

Dr. Alexey Yurievich Seteikin

Amur State University, Russia

Dr. Felix Jaetae Seo

Hampton University, USA

Prof. Martins Rutkis

Institute of Solid State Physics University of Latvia, Latvia

Dr. Chenggen Quan

National University of Singapore, Singapore

Prof. Kuppuswamy Porsezian

Pondicherry University, India

Prof. Neal T. Pfeifferberger

Virginia Tech, USA

Dr. Vincenzo Petruzzelli

Politecnico di Bari, Italy

Prof. Frédéric Paul

University of Rennes 1, France

Dr. Lim Nguyen

University of Nebraska-Lincoln, USA

Prof. Patrick Meyrueis

University of Strasbourg, France

Prof. Mohammad Matin

University of Denver, USA

Prof. Mohd Adzir Mahdi

Universiti Putra Malaysia, Malaysia

Dr. Abbas Ali Lotfi-Nayestanak

Telecommunication Engineering and IT Department, Iran

Dr. Jiang Li

The Ohio State University, USA

Prof. Lev B. Levitin

Boston University, USA

Prof. Sang Hak Lee

Kyungpook National University, South Korea

Prof. Sergey Kobtsev

Novosibirsk State University, Russia

Prof. Sakhrat Khizroev

Florida International University, USA

Dr. Rohan D. Kekatpure

Sandia National Laboratories, Mexico

Prof. Mark Humphrey

Australian National University, Australia

Dr. Tony Jun Huang

Pennsylvania State University, USA

Prof. Weida Hu

Chinese Academy of Sciences, China

Dr. Jacob Dunningham

University of Leeds, UK

Dr. Paul B. Crilly

United States Coast Guard Academy, USA

Dr. Sharmistha Dutta Choudhury

Bhabha Atomic Research Centre, India

Dr. Josep Canet-Ferrer

Universitat de Valencia, Spain

Table of Contents

Volume 5 Number 6

June 2015

The Uncertain Energy of an Excited State

R. A. Hutchin.....	201
--------------------	-----

Optics and Photonics Journal (OPJ)

Journal Information

SUBSCRIPTIONS

The *Optics and Photonics Journal* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 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.

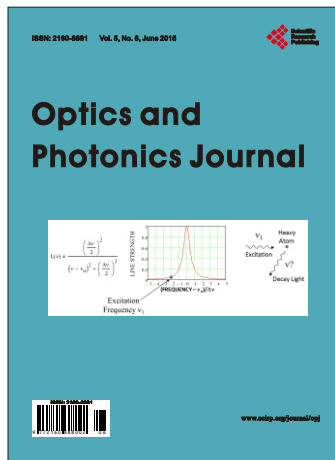
DISCLAIMER OF LIABILITY

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: opj@scirp.org



Optics and Photonics Journal (OPJ)

ISSN: 2160-8881 (Print) 2160-889X (Online)
<http://www.scirp.org/journal/opj>

Optics and Photonics Journal (OPJ) is an international, specialized, English-language journal devoted to publication of original contributions in all areas of optics and photonics. The Journal disseminates new results in the theory, design, applications, fabrication, performance and characterization of optics and photonics materials including bio-related functions such as bio-optics, bio-photonics and also optoelectronics. The journal is also devoted to challenging and innovating methods and techniques related to the development of optics and photonics materials, characterization and applications.

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- All related associated materials and characterization techniques development
- Bio-induced optical materials and applications
- Bio-photonics
- Imaging processes
- Laser spectroscopy
- Light wave communication systems
- Nanophotonics
- Nonlinear optics
- Optical fibers
- Photonic crystals
- Quantum optics
- Waveguides

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.

Notes for Intending Authors

The journal publishes the highest quality original full articles, communications, notes, reviews, special issues and books, covering both the experimental and theoretical aspects including but not limited to the above materials, techniques and studies. Papers are acceptable provided they report important findings, novel insights or useful techniques within the scope of the journal. All manuscript must be prepared in English, and are subjected to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by prints in hard copy.

Website and E-Mail

<http://www.scirp.org/journal/opj> E-mail: opj@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