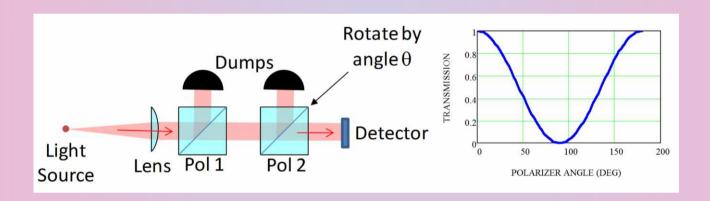




Optics and Photonics Journal





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 WangCanaLaser Technologies Co., Ltd., China

Dr. Shuping WangUniversity of North Texas, USA

Dr. Mengtao Sun Institute of Physics, Chinese Academy of Sciences, China

Dr. Soheil SharifiFerdowsi University of Mashhad, IranProf. Haixia ShangUniversity 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. Pfeiffenberger 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 LiThe Ohio State University, USA

Prof. Lev B. Levitin Boston University, USA

Prof. Sang Hak Lee Kyungpook National University, South Korea

Prof. Sergey Kobtsev
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 / Ju	ily 2015
Photo-Catalytic Activity of Ca _{1-x} Ni _x S Nanocrystals	
R. Sood, B. Singh, D. Kumar, H. S. Bhatti, K. Singh	205
Imaging and Therapeutic Applications of Optical and Thermal Response of SPION-Based Third Generation Plasmonic Nanodendrimers	
M. Tajabadi, M. E. Khosroshahi, S. Bonakdar	212
Analysis of the Effect of Air Hole Diameter and Lattice Pitch in Optical Properties for Hexagonal Photonic Crystal Fiber	
S. Biswas, R. S. Rafi, Md. A. Al-Amin, S. Alam	227
Theoretical Introduction and Generation Method of a Novel Nondiffracting Waves: Olver Beams	
A. Belafhal, L. Ez-Zariy, S. Hennani, H. Nebdi	234
Toward a Local Theory of Light	
R. A. Hutchin	247

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.

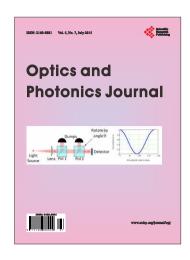
DISCLAIMER OF LIABILITY

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: opi@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.

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





Website: http://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org