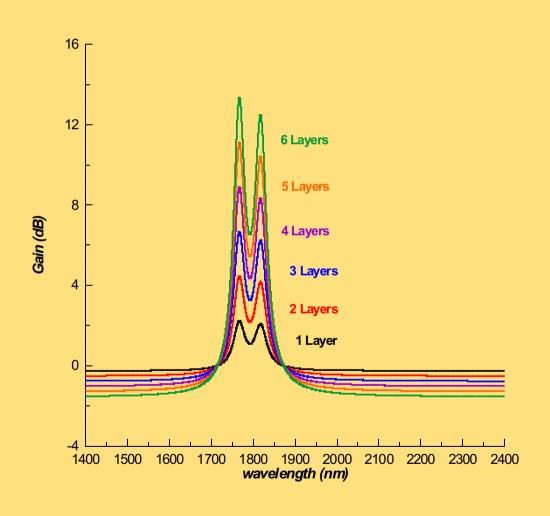


Optics and Photonics Journal





Http://www.scirp.org/journal/opj

Journal Editorial Board

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

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

Editor-in-Chief

Dr. Bouzid Menaa Fluorotronics Inc., USA

Editorial Board

Prof. Manas Banerjee University of Burdwan, India

Dr. Tony Jun HuangPennsylvania State University, USADr. Sergey KobtsevNovosibirsk State University, Russia

Prof. Sang Hak Lee Kyungpook National University, Korea (South)

Prof. Mohd Adzir Mahdi Universiti Putra Malaysia, Malaysia

Dr. Abbas Ali Lotfi Nayestanak Iranian Research Institute for Electrical Engineering, Iran

Dr. Neal T. Pfeiffenberger Virginia Tech, USA

Prof. Jörg PiperUniversity of Oradea, RomaniaProf. K. PorsezianPondicherry University, IndiaProf. Yunbo RaoUniversity of Washington, USA

Dr. Nasser Rashidnia Zin Technologies, USA

Dr. Martins Rutkis Institute of Solid State Physics University of Latvia, Latvia

Prof. Victor I. Ryzhii University of Aizu, Japan

Dr. Alexey Yurievich Seteikin Amur State University, Russia

Dr. Sucharita SinhaBhabha Atomic Research Centre, India

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

Prof. Fang Xie Beijing Jiaotong University, China

Prof. Lianxiang Yang Oakland University, USA

Dr. Moh Yasin Airlangga University, Indonesia

Editorial Assistant

Lilliam Chen Scientific Research Publishing, China opj@scirp.org

Optics and Photonics Journal (OPJ)

Journal Information

SUBSCRIPTIONS

The *Optics and Photonics Journal* (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@2011 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 assumes 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, 2011, 1, 15-90

Published Online June 2011 in SciRes (http://www.SciRP.org/journal/opj/)

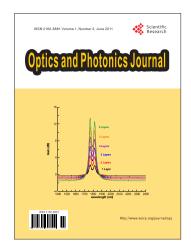


TABLE OF CONTENTS

Volume 1	Number 2	June 2011
Scanning of th	ne Sun and Other Celestial Bodies with Help of Gra	vitation Spectroscopy
K. Zubow, A.	Zubow, V. A. Zubow	
Trace Gas De	tection from Plant Leaves, Flowers and Seeds Using	Conventional and
Photothermal	Light Deflection Spectroscopy	
M. I. Abu-Tah	ıa, Y. A. Abu-Rayan	24
How Fast a H	ydrogen Atom can Move Before Its Proton and Elec	ctron Fly Apart?
W. X. Xu		36
Computer Ge	nerated Quadratic and Higher Order Apertures an	d
Its Application	n on Numerical Speckle Images	
A. M. Hamed.		43
Scanning Hole	ography Using a Modulated Linear Pupil: Simulatio	ons
A. M. Hamed.		52
Studies on the	Inclusion Behavior of Amphiphilic p-Sulfonatocali	x[4]arene with Ascorbic Acid by
Spectrofluoro	metric Titrations	
Y. Y. Zhou, X	. P. Ding, X. L. Fang, T. Li, D.B. Tang, Q. Lu	59
ZnSe/ZnS Qua	antum-Dot Semiconductor Optical Amplifiers	
K. H. Al-Moss	sawi	65
Nonlinear Ref	fraction of Peripheral-Substituted Zinc Phthalocyan	nines Investigated by Nanosecond and
Picosecond Z	Scans	
Y. J. Li, T. M	. Pritchett, J. D. Huang, M.R. Ke, W.F. Sun	70
First-Principl	es Study of the Optical Properties of SrHfO ₃	
H. Salehi, H.	Tolabinejad	75
Determination	n of the Triplet State Lifetime of C ₆₀ / Toluene Solut	tion and C ₆₀ Thin Films by
Pump-Probe	Method	
C. B. Yao, E. 1	Kponou, Y. D. Zhang, J. F. Wang, P.Yuan	81
	Fluorescence Spectrocopy for Detection of Microsph	
	lex Scaling Law	
V. K. Shinoj, V	V. M. Murukeshan	85

The figure on the front cover is from the article published in Optics and Photonics Journal, 2011, Vol. 1, No. 2, pp. 15-90, by K. H. Al-Mossawi.

Copyright © 2011 SciRes.



Optics and Photonics Journal (OPJ)

ISSN 2160-8881 (Print) ISSN 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:

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

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