

2016 IEEE Conference on Recent Advances in Lightwave Technology (CRAFT 2016)

**Bangalore, India
21-23 September 2016**



**IEEE Catalog Number: CFP16H85-POD
ISBN: 978-1-5090-3392-8**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16H85-POD
ISBN (Print-On-Demand):	978-1-5090-3392-8
ISBN (Online):	978-1-5090-3391-1

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

SCATTERER ROD RADIUS ANALYSIS IN 2D PHOTONIC CRYSTAL STRUCTURE BASED CHANNEL DROP FILTER USING INP MATERIAL	1
<i>Mayur Kumar Chhipa ; Massoudi Radhouene</i>	
OPTIMIZATION OF THREE CHANNELS OPTICAL DEMULTIPLEXER BASED ON PHOTONIC CRYSTAL RING RESONATOR.....	5
<i>Massoui Radhouene ; Najjar Monia ; Nikhil Deep Gupta ; Vijay Janyani</i>	
EFFECT OF WALK-OFF PARAMETER, ABSORPTION-LOSSES, AND FCD ON XPM-INDUCED MI IN SOI NANOWAVEGUIDES	7
<i>Deepa Chaturvedi ; Ajit Kumar</i>	
INCREASING THE SIGNAL-TO-NOISE RATIO IN APD-BASED SCANNING LIDAR SENSORS ON THE TRANSMISSION SIDE	11
<i>Thomas Fersch ; Robert Weigel ; Alexander Koelpin</i>	
DESIGN OF TEMPERATURE SENSOR USING LIQUID FILLED PHOTONIC CRYSTAL FIBER.....	14
<i>S. K. Methaprian ; N. Ayyanar ; P. Mahalakshmi ; M. Sumathi ; D. Vigneswaran ; M. S. Mani Rajan</i>	
RAMAN GAIN IN A SHORT LENGTH 200 μM BEND-INSENSITIVE OPTICAL FIBER.....	19
<i>Sneha Mogal ; Annesha Maity ; Pramod R. Watekar</i>	
HEXAGONAL PERIODIC MOTHEYE PHOTONIC STRUCTURE AS BROADBAND ANTI-REFLECTOR	23
<i>Saraswati Behera ; Joby Joby Joseph</i>	
TEMPERATURE DEPENDENT BRILLOUIN STUDIES OF BEND INSENSITIVE OPTICAL FIBER OF ITU-T G657.A1 CATEGORY	26
<i>Ashwin Bhutekar ; Nagaraju Bezawada ; Pramod R. Watekar</i>	
TEMPERATURE TUNABLE SUPERCONTINUUM SPECTRUM IN VISIBLE REGION USING WATER-CORE PCF.....	30
<i>G. Joshva Raj ; R. Vasantha Jayakantha Raja ; R. Ganapathy ; Ph. Grelu ; K. Porsezian</i>	
REUSABLE WAFER-SCALE PLASMONIC CHIRAL SUBSTRATES FOR SENSING APPLICATIONS	33
<i>Greshma Nair ; Rajitha Papukutty Rajan ; Ambarish Ghosh</i>	
BRANCH IDENTIFICATION IN POINT TO MULTIPOINT PASSIVE OPTICAL NETWORKS USING DISTINCT PUSLE SHAPES	36
<i>V. S. Rakesh Krishna ; E. S. Shivaleela</i>	
INTEGRATED OPTIC GRATING ARRAY FOR SIMULTANEOUS DETECTION OF MULTIPLE GASES.....	40
<i>Ugramohan Roy ; Sathish Malathi ; Sheetal D Patil</i>	
DESIGNING OF HIGHLY SENSITIVE OPTICAL FIBER GRATING BASED REFRACTIVE INDEX SENSOR WITH DEPOSITION OF GOLD NANOPARTICLES ON FIBER SURFACE.....	44
<i>Sankhyabrata Bandyopadhyay ; Nandini Basumallick ; Tanoy Kumar Dey ; Palas Biswas ; Somnath Bandyopadhyay</i>	
DETECTION OF CANCER CELL WITH LIGHT WAVE PROPAGATION IN OPTICAL BIO-SENSOR.....	48
<i>K. Srinivas Rao ; Dattathreya ; A. K. Tiwari</i>	
NON INVASIVE ASSESSMENT OF BRACHIAL ARTERIAL STIFFNESS USING FIBER BRAGG GRATING SENSOR	52
<i>Shweta Pant ; Sharath Umesh ; Srivani Padma ; Sundarrajan Asokan</i>	
FIBER BRAGG GRATING DIFFERENTIAL PRESSURE SENSOR	55
<i>Shikha Ambastha ; Sharath Umesh ; Arunbabu Ayiriveetil ; Shweta Pant ; Sundarrajan Asokan</i>	
Author Index	