

Nanomaterials/Quantum Materials and Materials Physics/Advances in 2D MXenes

MRS Advances Volume 9, Issue 17

Various Dates and Locations

ISBN: 979-8-3313-1055-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2024) by Springer Nature
All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

For permission requests, please contact Springer Nature
at the address below.

Springer Nature
The Campus 4 Crinan St.
London N1 9XW
United Kingdom

www.springernature.com

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
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

MXene Coating on Waste Textiles for Wearable Electronics and Thermal Regulation.....	1303
<i>Ken Aldren S. Usman, Kevinilo P. Marquez, Joselito M. Razal</i>	
Hydrothermal Synthesis of MXenes in Alkali Environment and Development of MXene/PEDOT:PSS Composite Electrodes for Supercapacitor Applications	1310
<i>Mauktik Kulkarni, Alisa Lalic, Namita Roy Choudhury</i>	
The Growth and Characterization of Au-Catalyzed Gallium Oxide Nanowires.....	1318
<i>Geordan Dorsey, Antonio Moore, W. E. Collins</i>	
Evaluation of Biological Activity for Gadolinium-Incorporated Zinc Oxide Nanostructures Via Hydrothermal Method	1324
<i>A. Subashini, Suresh Sagadevan, Mohammed A. Al-Anber</i>	
The Effect of P_2O_5/Na_2O Substitution on $Na_2O-P_2O_5-V_2O_5$ Glass Structure	1331
<i>Nourhan Atef, Rawia Ramadan, Gomaa El Damrawi</i>	
Detection of Fe^{3+} Ions Using Carbon Dots Derived from Gac Fruit (<i>Momordica Cochinchinensis</i> Spreng)	1337
<i>Le Xuan Diem Ngoc, Khuong Anh Son, Ngo Khoa Quang</i>	
Size Variant Spherical Gold Nanoparticles for in Situ Detection of Trace Contaminants by Surface Enhanced Raman Spectroscopy.....	1345
<i>Md. Shah Alam, Nazmul Islam Tanvir, Syed Farid Uddin Farhad</i>	
Investigation of Hafnium, Tantalum, and Ruthenium as Catalyst Stabilizers in the Iron-Catalyzed Growth of Carbon Nanotubes from Ethylene	1352
<i>Wonjung Park, Michael J. Bronikowski</i>	
The Fabrication and Characterization of Spintronic Terahertz Emitter Using Magnetic/non- Magnetic Bilayer with Nanometer Thickness	1358
<i>Mikihiko Nishitani, Kohei Ejiri, Makoto Nakajima</i>	
Conversion of ZnSe Nanorods to ZnSe/ZnO Nanoparticles Via Air Annealing.....	1364
<i>Prerna Gupta, Rekha Garg Solanki, KM Sujata</i>	
Advanced Sensor Performance: Investigating Complexities of Electrical Resistance Relaxation Behavior in Piezoresistive Materials	1374
<i>Dilusha J. De Silva, Indika L. Wanniarachchi, Thusitha N. B. Etampawala</i>	
Synthesis of ZnO Nanorods Through Controlled Airflow Furnace	1383
<i>Naveen Dinujaya, D. L. Isuri Yasara, Thusitha N. B. Etampawala</i>	
Trivalent Bismuth Xanthates: Synthesis and Characterization.....	1394
<i>Selina Ama Saah, Nathaniel Owusu Boadi, Johannes A. M. Awudza</i>	

Author Index