

MRS

Advances

Electronics, Magnetics and Photonics

<https://doi.org/10.1557/adv.2017.512> Published online by Cambridge University Press

MRS

MATERIALS
RESEARCH
SOCIETY®

CAMBRIDGE
UNIVERSITY PRESS

MRS Advances: Electronics, Magnetics and Photonics

Associate Editor:

Jeremy Theil, *Mountain View Energy*

Principal Editors:

Jeff McCallum, *University of Melbourne*
Franck Natali, *Victoria University of Wellington*
Takao Someya, *The University of Tokyo*

Yifei Sun, *Purdue University*
Martin Kuball, *University of Bristol*

MRS Advances Editorial Board:

Editor-in-Chief: David F. Bahr, *Purdue University*
Asa Barber, *University of Portsmouth, United Kingdom*
Meenakshi Dutt, *Rutgers University*
Elizabeth L. Fleischer, *Materials Research Society*

Marian Kennedy, *Clemson University*
Marilyn L. Minus, *Northeastern University*
Roger J. Narayan, *University of North Carolina/North Carolina State University*
Jeremy Theil, *Mountain View Energy*

Materials Research Society Editorial Office, Warrendale, PA:

Ellen W. Kracht, *Publications Manager*
Susan Dittrich, *Journals Editorial Assistant*

Kirby L. Morris, *Journals Production Assistant*
Eileen M. Kiley, *Director of Communications*

Disclaimer

Authors of each article appearing in this Journal are solely responsible for all contents in their article(s) including accuracy of the facts, statements, and citing resources. Facts and opinions are solely the personal statements of the respective authors and do not necessarily represent the views of the editors, the Materials Research Society, or Cambridge University Press.

MRS Advances (EISSN: 2059-8521) is published by Cambridge University Press, One Liberty Plaza, Floor 20, New York, NY 10006 for the Materials Research Society.

Copyright © 2017, Materials Research Society. All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying, or otherwise, without permission in writing from Cambridge University Press. Policies, request forms and contacts are available at: <http://www.cambridge.org/rights/permissions/permission.htm>. Permission to copy (for users in the USA) is available from Copyright Clearance Center at: <http://www.copyright.com>, email: info@copyright.com.

Purchasing Options:

Premium Subscription- Premium Subscription includes current subscription and one year's lease access to the full MRS Online Proceedings Library Archive for \$7,219.00 / £4,888.00 / €6,647.00. *Subscription-* Subscription with perpetual access to the content subscribed to in a given year, including three years of back-file lease access to content from the MRS Online Proceedings Library Archive. The price for a 2017 subscription is \$3,019.00 / £1,948.00 / €2,625.00. *MRS Members-* Access to *MRS Advances* is available to all MRS members without charge.

Contact Details:

For all inquiries about pricing and access to *MRS Advances*, please get in touch via the following email addresses: online@cambridge.org (for the Americas); library.sales@cambridge.org (for UK, Europe, and rest of world).

cambridge.org/adv

CONTENTS

Small Molecule with Extended Alkyl Side Substituents for Organic Solar Cells	2253
Chenyu Zheng, Ishita Jalan, Jeremy A. Cody, and Christopher J. Collison	
Energy Level Alignment at BeBq₂/PEI/ITO Interfaces Studied by UV Photoemission Spectroscopy	2261
Kohei Shimizu, Hirohiko Fukagawa, Katsuyuki Morii, Hiroumi Kinjo, Tomoya Sato, and Hisao Ishii	
Structure-function Correlation of Photoactive Ionic pi-conjugated Binary Porphyrin Assemblies	2267
Morteza Adinehnia, Bryan Borders, Michael Ruf, Bhaskar Chilukuri, Ursula Mazur, and K.W. Hipps	
Backside Contacting for Uniform Luminance in Large-area OLED.	2275
P. Pfeiffer, X.D. Zhang, D. Stümmler, S. Sanders, M. Weingarten, M. Heuken, A. Vescan, and H. Kalisch	
Effect of Compound Dielectric and Metal Thinning on Metal-insulator-metal Resonant Absorbers for Multispectral Infrared Air-bridge Bolometers	2281
Robert E. Peale, Seth Calhoun, Chris J. Fredricksen, Evan Smith, Shiva Vangala, Kevin Leedy, Joshua R. Hendrickson, and Justin W. Cleary	
Laser-fabricated Plasmonic Nanostructures for Surface-enhanced Raman Spectroscopy of Bacteria Quorum Sensing Molecules	2287
Kyle Culhane, Ke Jiang, Aaron Neumann, and Anatoliy O. Pinchuk	
Scintillator Light Emission Enhancement via Nanostructure and Plasmonic Design.	2295
M. Brooke Beckert, Jonathan Andreasen, Keri Ledford, Greg Mohler, Clayton Kerce, and Jason H. Nadler	

**Paper-based Plasmonic Surface for Chemical Biosensing
by the Attenuated Total Reflection Method 2303**
 Nobuko Fukuda, Srimongkon Tithimanan,
 Hirobumi Ushijima, and Noritaka Yamamoto

**Formation of Fe-Co-Si Structure in Fe and Co Implanted
Si Substrate 2309**
 Wickramaarachchige J. Lakshantha,
 Satyabrata Singh, Floyd D. McDaniel,
 and Bibhudutta Rout