MRS Advances: Electronics, Magnetics and Photonics

Associate Editor:
Jeremy Theil, Mountain View Energy

Principal Editors:
Elizabeth L. Fleischer, Materials Research Society, USA
Franz Faupel, University of Kiel, Germany
Viktoriia Babicheva, Georgia State University, USA
Matteo Meneghini, University of Padova, Italy
David F. Bahr, Purdue University, USA
Seyoung Kim, IBM T.J. Watson Research Center, USA
Jeff McCallum, University of Melbourne, Australia

MRS Advances Editorial Board:
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
Ruth Schwaiger, Karlsruhe Institute of Technology, Germany
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.


Copyright © 2018, 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 2018 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

Variations in Electric Switching and Transverse Resistance of GeTe/ Sb2Te3 Superlattices at Elevated Temperature Studied by Conductive Scanning Probe Microscopy .................................................. 241
Leonid Bolotov, Yuta Saito, Tetsuya Tada, and Junji Tominaga

Optimization of the Electrical Performance of Metal Oxide Thin-film Transistors by varying Spray Deposition Parameters .................................................. 247
Guilherme R. de Lima, João Paulo Braga, Giovani Gozzi, and Lucas Fugikawa Santos

Smooth TiO2 Thin Films Grown by Aqueous Spray Deposition for Long-wave Infrared Applications .................................................. 255
Sarmad Fawzi Hamza Alhasan, Seth R. Calhoun, Hussain Abouelkhair, Vanessa C. Lowry, Robert E. Peale, Imen Rezadad, Evan M. Smith, Justin W. Cleary, and Isaiah O. Oladeji

Effect of Carboxylic Acids on Reactive Transfer Printing of Copper Formate Ink .................................................. 261
Yitzchak S. Rosen and Shlomo Magdassi

Low-temperature Solution-processed sol-gel K-rich KNN Thin Films for Flexible Electronics .................................................. 269
Rajinder Singh Deol, Meenal Mehra, Bhaskar Mitra, and Madhusudan Singh

Sonochemically Synthesized ZnO Nanostructure-Based L-Lactate Enzymatic Sensors on Flexible Substrates .................................................. 277
Fahmida Alam, Ahmed Hasnain Jalal, Raju Sinha, Yogeswaran Umasankar, Shekhar Bhansali, and Nezih Pala

Influence of Spray-pyrolysis Deposition Parameters on the Electrical Properties of Aluminium Zinc Oxides Thin Films .................................................. 283
Denis E. Martins, Giovani Gozzi, and Lucas Fugikawa Santos
Ternary Lead-chalcogenide Room-temperature Mid-wave Infrared Detectors Grown by Spray-deposition

Hussain Abouelkhair, Pedro N. Figueiredo, Seth R. Calhoun, Chris J. Fredricksen, Isaiah O. Oladeji, Evan M. Smith, Justin W. Cleary, and Robert E. Peale