

MRS **Advances**

Biomaterials and Soft Materials

<https://doi.org/10.1557/adv.2019.213> Published online by Cambridge University Press

MRS Advances: Biomaterials and Soft Materials

Associate Editor:

Roger J. Narayan, *University of North Carolina/North Carolina State University, USA*

Principal Editors:

Renata Bilewicz, *University of Warsaw, Poland*

Sanket Deshmukh, *Virginia Tech, USA*

Junji Fukuda, *Yokohama National University, Japan*

Qihui Shi, *Shanghai Jiao Tong University, China*

Emilio Martines, *Consorzio RFX, Italy*

Roisin Owens, *University of Cambridge, United Kingdom*

Christian Nielsen, *Queen Mary University of London, United Kingdom*

Chun-Long Chen, *Pacific Northwest National Laboratory, USA*

MRS Advances Editorial Board:

Editor-in-Chief: David F. Bahr, *Purdue University, USA*

Asa Barber, *University of Portsmouth, United Kingdom*

Meenakshi Dutt, *Rutgers University, USA*

Elizabeth L. Fleischer, *Materials Research Society, USA*

Marian Kennedy, *Clemson University, USA*

Marilyn L. Minus, *Northeastern University, USA*

Roger J. Narayan, *University of North Carolina/North Carolina State University, USA*

Ruth Schwaiger, *Karlsruhe Institute of Technology, Germany*

Jeremy Theil, *Mountain View Energy, USA*

Materials Research Society Editorial Office, Warrendale, PA, USA:

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 © 2019, 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

ARTICLES

- Assembly Controlled by Shape. 1261**
Milana O. Lisunova
- Establishing an Optical Measuring Method to Determine the
Anisotropy of Embroidered Reinforcement Structures 1267**
A. Breier, J. Guan, and A. Spickenheuer
- Evaluation of Rheological Properties and Cytotoxicity of Bioinks . . . 1275**
Farzad Koosha, Daniel Silverman,
Stephanie Taboada, Juyi Li,
and Miriam Rafailovich
- Multi Frequency Assessment of the Electrical Impedance
Myography Parameters on 3D Malignant Breast. 1285**
Md Nurul A. Tarek, Fahmida Alam,
Ahmed Hasnain Jalal, and Mohammad A. Ahad
- Synthesis of Two Cyanine Dyes as Potential Artificial Antennas
for the Bacterial Photosynthetic Reaction Center 1293**
R. Ragni, G. Leone, G. Rizzo, S. la Gatta,
F. Milano, M. Trotta, and G.M. Farinola
- Reusable Surface Molecular Imprint Biosensors Aided by
Naturally Occurring Surface Roughness Indices for Point-of-Care
Diagnostics. 1299**
Yehoshua Auerbach, Rebecca Isseroff,
Nicholas Clayton, Miguel Hulyalkar,
Andrew Todt, Vincent Ricotta,
and Miriam Rafailovich
- A Comparative Study of the Phase Separation of a Nematic
Liquid Crystal in the Self-assembling Drying Protein Drops 1309**
Anusuya Pal, Amalesh Gope,
and Germano S. Iannacchione