

# **Soft Materials and Biomaterials/Broader Impact**

Including Papers from MRS Meetings

MRS Advances Volume 6, Issue 28

Held Various Dates and Locations

ISBN: 978-1-7138-3792-3

**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© (2021) by Springer Nature  
All rights reserved.

Printed with permission by Curran Associates, Inc. (2024)

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](http://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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

## TABLE OF CONTENTS

Investigation of Ibuprofen Loading in PEG–PLGA–PEG Micelles by Coarse-Grained DPD Simulations.....	689
<i>Mihriban Yildiz ; Gokhan Kacar</i>	
Nanostructured Antibacterial Aluminum Foil Produced by Hot Water Treatment Against E. Coli in Meat.....	695
<i>Quinshell Smith ; Kenneth Burnett ; Nawzat Saadi ; Khulud Alotaibi ; Atikur Rahman ; Khalidah Al-Mayalee ; Nawab Ali ; Ashraf A. Khan ; Tansel Karabacak</i>	
The Antibacterial Efficacy of Aluminum Oxide Nanostructures by Hot Water Treatment for HVAC Systems.....	701
<i>Kenneth Burnett ; Quinshell Smith ; Ashley Esparza ; Nawzat Saadi ; John Bush ; Tansel Karabacak</i>	

### **Author Index**