Advertisement

Adobe Acrobat

Downloading for conversion...

Topography from Topology Photoi...

Advanced Materials / Volume 25, Issue 41 / p. 5880-5885

Communication

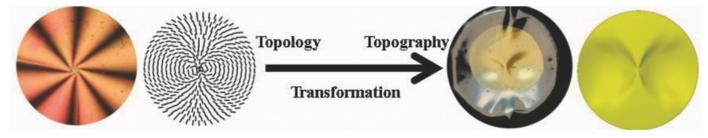
Topography from Topology: Photoinduced Surface Features Generated in Liquid Crystal Polymer Networks

Michael E. McConney, Angel Martinez, Vincent P. Tondiglia, Kyung Min Lee, Derrick Langley, Ivan I. Smalyukh, Timothy J. White 🔀

First published: 21 July 2013 https://doi.org/10.1002/adma.201301891 Citations: 158

Abstract

Films subsumed with topological defects are transformed into complex, topographical surface features with light irradiation of azobenzene-functionalized liquid crystal polymer networks (azo-LCNs). Using a specially designed optical setup and photoalignment materials, azo-LCN films containing either singular or multiple defects with strengths ranging from 1½ to as much as 10 are examined. The local order of an azo-LCN material for a given defect strength dictates a complex, mechanical response observed as topographical surface features.



Citing Literature	\sim

Supporting Information

 \sim

	Adobe Acrobat	_
As a service to our authors and readers, this journal pro- authors. Such materials are peer reviewed and may be r copy-edited or typeset. Technical support issues arising missing files) should be addressed to the authors.	Downloading for conversion Topography from Topology Photoi	by the not n
Filename	Description	

adma201301891-sup-0001-S1.pdf 238.5 KB

Please note: The publisher is not responsible for the content or functionality of any supporting information supplied by the authors. Any queries (other than missing content) should be directed to the corresponding author for the article.

Download PDF

Supplementary

About Wiley Online Library

Privacy Policy Terms of Use Cookies Accessibility Publishing Policies

Help & Support

Contact Us Training and Support DMCA & Reporting Piracy

Opportunities

Subscription Agents Advertisers & Corporate Partners

Connect with Wiley

The Wiley Network Wiley Press Room Copyright © 1999-2021 John Wiley & Sons, Inc. All rights reserved

Adobe Acrobat

Downloading for conversion...

Topography from Topology Photoi...