

PROCEEDINGS OF SPIE

Organic Photonic Materials and Devices XXIII

**William M. Shensky III
Ileana Rau
Okihiro Sugihara**
Editors

**6–11 March 2021
Online Only, United States**

Sponsored and Published by
SPIE

Volume 11683

Proceedings of SPIE 0277-786X, V. 11683

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

Organic Photonic Materials and Devices XXIII, edited by William M. Shensky III, Ileana Rau,
Okihiro Sugihara, Proc. of SPIE Vol. 11683, 1168301 · © 2021 SPIE
CCC code: 0277-786X/21/\$21 · doi: 10.1117/12.2596608

Proc. of SPIE Vol. 11683 1168301-1

The papers in this volume were part of the technical conference cited on the cover and title page. Papers were selected and subject to review by the editors and conference program committee. Some conference presentations may not be available for publication. Additional papers and presentation recordings may be available online in the SPIE Digital Library at SPIDigitalLibrary.org.

The papers reflect the work and thoughts of the authors and are published herein as submitted. The publisher is not responsible for the validity of the information or for any outcomes resulting from reliance thereon.

Please use the following format to cite material from these proceedings:

Author(s), "Title of Paper," in *Organic Photonic Materials and Devices XXIII*, edited by William M. Shensky III, Ileana Rau, Okihiro Sugihara, Proceedings of SPIE Vol. 11683 (SPIE, Bellingham, WA, 2021) Seven-digit Article CID Number.

ISSN: 0277-786X
ISSN: 1996-756X (electronic)

ISBN: 9781510642010
ISBN: 9781510642027 (electronic)

Published by
SPIE
P.O. Box 10, Bellingham, Washington 98227-0010 USA
Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445
SPIE.org
Copyright © 2021, Society of Photo-Optical Instrumentation Engineers.

Copying of material in this book for internal or personal use, or for the internal or personal use of specific clients, beyond the fair use provisions granted by the U.S. Copyright Law is authorized by SPIE subject to payment of copying fees. The Transactional Reporting Service base fee for this volume is \$21.00 per article (or portion thereof), which should be paid directly to the Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923. Payment may also be made electronically through CCC Online at copyright.com. Other copying for republication, resale, advertising or promotion, or any form of systematic or multiple reproduction of any material in this book is prohibited except with permission in writing from the publisher. The CCC fee code is 0277-786X/21/\$21.00.

Printed in the United States of America by Curran Associates, Inc., under license from SPIE.

Publication of record for individual papers is online in the SPIE Digital Library.

**SPIE. DIGITAL
LIBRARY**
SPIDigitalLibrary.org

Paper Numbering: *Proceedings of SPIE* follow an e-First publication model. A unique citation identifier (CID) number is assigned to each article at the time of publication. Utilization of CIDs allows articles to be fully citable as soon as they are published online, and connects the same identifier to all online and print versions of the publication. SPIE uses a seven-digit CID article numbering system structured as follows:

- The first five digits correspond to the SPIE volume number.
- The last two digits indicate publication order within the volume using a Base 36 numbering system employing both numerals and letters. These two-number sets start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B ... 0Z, followed by 10-1Z, 20-2Z, etc. The CID Number appears on each page of the manuscript.

Contents

ORGANIC-INORGANIC HYBRID DEVICES AND BIOPHOTONIC MATERIALS

- 11683 0A **Reversible all-optical control of optical microcavities by a self-assembled azobenzene monolayer** [11683-8]
- 11683 0D **Inkjet-printing of 3D optical systems** [11683-11]

OLEDs

- 11683 0G **Use of oxazole-based chromophores as neat films in OLED structures: towards efficient deep-blue emitters** [11683-13]

NONLINEAR OPTICAL DYES AND REVERSE-SATURABLE ABSORPTION

- 11683 0S **Photophysics and excited-state absorption of bis-cyclometalated iridium complexes with isocyanide ancillary ligands (Invited Paper)** [11683-25]
- 11683 0T **Derivatized 2-phenylbenzothiazole cyclometalating ligands for reverse saturable absorption (RSA) materials development** [11683-26]
- 11683 0V **Coordination-driven self-assembly of multi-chromophoric architectures using photoactive building blocks (Invited Paper)** [11683-28]

POSTER SESSION

- 11683 10 **Effect of exciton-blocking layer on the characteristics of multilayer white organic light-emitting diodes** [11683-33]
- 11683 11 **Light-controlled spectral selectivity in polarization-sensitive materials** [11683-34]

