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978-1-107-41295-8 - Materials Research Society Symposium Proceedings: Volume 637:

Microphotonics—Materials, Physics and Applications

Editors: Kazumi Wada, Thomas F. Krauss, Pierre Wiltzius, Kiyoshi Asakawa and Edwin L. Thomas

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**MATERIALS RESEARCH SOCIETY
SYMPOSIUM PROCEEDINGS VOLUME 637**

Microphotonics—Materials, Physics and Applications

Symposium held November 27–29, 2000, Boston, Massachusetts, U.S.A.

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Materials Research Society
Warrendale, Pennsylvania

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Cambridge, New York, Melbourne, Madrid, Cape Town,
Singapore, São Paulo, Delhi, Mexico City

Cambridge University Press

32 Avenue of the Americas, New York NY 10013-2473, USA

Published in the United States of America by Cambridge University Press, New York

www.cambridge.org

Information on this title: www.cambridge.org/9781107412958

Materials Research Society

506 Keystone Drive, Warrendale, PA 15086

<http://www.mrs.org>

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First published 2001

First paperback edition 2013

Single article reprints from this publication are available through
University Microfilms Inc., 300 North Zeeb Road, Ann Arbor, MI 48106

CODEN: MRSPDH

ISBN 978-1-107-41295-8 Paperback

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PREFACE

This volume contains papers presented at Symposium E, "Microphotonics—Materials, Physics and Applications," held November 27–29 at the 2000 MRS Fall Meeting in Boston, Massachusetts. The symposium has the same title as this volume and focuses on the emerging field of microphotonics. The papers in this symposium highlight materials systems with high refractive index contrast and their processing; micro-cavities and spontaneous emission enhancement; high speed photonics and non-linear optics; tuning and detuning of resonators; waveguides and low bending losses; filters and splitters; and detectors.

The organization of the proceedings volume closely follows the topics around which the sessions were built. All of the papers were reviewed electronically and appear in the proceedings in their revised format. We are most grateful to the reviewers who devoted their time to a quick review process. Approximately half of the papers presented at the symposium are included in this volume, reflecting the diverse nature of the original research.

This is the first symposium on microphotonics in the MRS symposium proceedings series. This proceedings volume will help readers catch up on recent progress and challenges in our community.

Kazumi Wada
Thomas F. Krauss
Pierre Wiltzius
Kiyoshi Asakawa
Edwin L. Thomas

July 2001

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