

MATERIALS RESEARCH SOCIETY
SYMPOSIUM PROCEEDINGS VOLUME 1016

Materials and Material Structures Enabling Terahertz Technology

April 9-13, 2007
San Francisco, California, USA

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-421-3

Some format issues inherent in the e-media version may also appear in this print version.

Copyright (2007) by the Materials Research Society.
All rights reserved.

For permission requests, please contact the Materials Research Society at the address below.

Materials Research Society
Proceedings
506 Keystone Dr.
Warrendale, PA 15086
Phone: 724-779-3004 x 531
Fax: 724-779-4396
eproceedings@mrs.org

TABLE OF CONTENTS

Picosecond Polarisation Detector for Infrared and Terahertz Radiation	1
<i>W. Weber, J. Kiermaier, S. N. Danilov, D. Schuh, C. Gerl, W. Wegscheider, D. Bougeard, G. Abstreiter, W. Prettl, S. D. Ganichev</i>	
Selection of Optimum Nonlinear Crystals for Efficient Parametric Generation and Sensitive Detection of Monochromatic ns THz Pulses	7
<i>Yujie J. Ding</i>	
Micromachining for Terahertz Artificial Materials	19
<i>A. J. Gallant, G. Peter Swift, De Chang Dai, M. Kaliteevski, D. A. Zeze, D. Wood, Michael C Petty, Stuart Brand, Richard A. Abram, J. Martyn Chamberlain</i>	
Excitation of Coherent Phonons in Crystalline Bi: Theory for Driving Atomic Vibrations by Femtosecond Pulses	27
<i>D. Boschetto</i>	
Antireflection Coating for External-Cavity Quantum Cascade Laser Near 5 THz	34
<i>D. B. Fenner, J. M. Hensley, M. G. Allen, J. Xu, A. Tredicucci</i>	
Author Index	