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## Front Matter: Volume 7364

, "Front Matter: Volume 7364," Proc. SPIE 7364, Nanotechnology IV, 736401  
(22 June 2009); doi: 10.1117/12.834728

**SPIE.**

Event: SPIE Europe Microtechnologies for the New Millennium, 2009,  
Dresden, Germany

# PROCEEDINGS OF SPIE

## ***Nanotechnology IV***

**Achim Wixforth**  
**Axel Lorke**  
**Friedrich C. Simmel**  
*Editors*

**4–6 May 2009**  
**Dresden, Germany**

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**Volume 7364**

Proceedings of SPIE, 0277-786X, v. 7364

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Please use the following format to cite material from this book:

Author(s), "Title of Paper," in *Nanotechnology IV*, edited by Achim Wixforth, Axel Lorke, Friedrich C. Simmel, Proceedings of SPIE Vol. 7364 (SPIE, Bellingham, WA, 2009) Article CID Number.

ISSN 0277-786X  
ISBN 9780819476388

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

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## Introduction

A conference entitled 'Microtechnologies for the next Millennium' must include a focus on nanotechnology, a field which has certainly matured beyond its infancy. Novel fabrication techniques and hybridization of different materials reveal a wealth of new applications and experimental findings that could not have been envisioned a few years ago.

The SPIE Europe Nanotechnology conference 2009 brought together research scientists, engineers, and visionaries from this exciting field. In view of the fact that nanotechnology was not represented by a single headline, six different sessions were set up which gave special emphasis to technologies and techniques that are serving to bridge the fields of electronics, mechanics, photonics, and biology (soft matter, generally).

The following selection of papers nicely reflects the state of nanotechnology and nanoscience in general. I personally wish to thank all the attendees and authors for their great mix of theories, mature scientific results, and visionary ideas which made the conference a true 'must attend' event for players in the field.

**Achim Wixforth**

