

MATERIALS RESEARCH SOCIETY
SYMPOSIUM PROCEEDINGS VOLUME 1087

**Crystal-Shape Control and
Shape-Dependent
Properties-Methods, Mechanism,
Theory and Simulation**

March 24-28, 2008
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: 978-1-60560-874-7

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

Copyright© (2008) by the Materials Research Society
All rights reserved.

Printed by Curran Associates, Inc. (2009)

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

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Kinetic- or Thermodynamic-Growth Formation of Pd Nanocrystals: A Combined TEM-DLS Approach	1
<i>G. Berhault, M. Bausach</i>	
Atomistic Study of Creation of Bimetallic Clusters by Coalescence	7
<i>S. Mizuno, K. Shintani</i>	
The Effect of Surface Roughness on the Extinction Spectra and Electromagnetic Fields around Gold Nanoparticles	13
<i>S. Li, G.C. Schatz</i>	
Growth and Optical Properties of SnO₂ Ultra-Small Nanorods by the Novel Micelle Techniques	17
<i>S. Rath, S. Nozaki, H. Ono, K. Uchida, S. Khojima</i>	
Effect of Interfacial Strain on Shape and Composition of MOCVD Grown III-Nitride Nanostructures	23
<i>V. Jindal, J. Grandusky, N. Tripathi, M. Tungare, F. Shahedipour-Sandvik</i>	
Shape Deformation of Colloidal Titania Nanoparticles by Means of Ion Irradiation	30
<i>J. Cheang-Wong, A. Diaz-Fonseca</i>	
Non-Hydrolytic Solution-Phase Synthesis of Anisotropic LiNbO₃ and Nb₂O₅ Nanostructures	36
<i>B.D. Wood, B.D. Gates</i>	
Simulations of Nonlinear Strongly Anisotropic, Misfitting Crystals and Thin Films	44
<i>S. Torabi, S. Wise, S. Li, A. Voigt, J. Lowengrub, P. Zhou</i>	
Engineering the Shape of Zinc Oxide Crystals Via Sonochemical or Hydrothermal Solution-based Methods	59
<i>M. Palumbo, S.J. Henley, T. Lutz, V. Stolojan, D. Cox, S.R.P. Silva</i>	
Plasma Ion Heating Produces L10 FePt Nanoclusters	66
<i>M.M. Patterson, X. Rui, X. Li, J.E. Shield, D. Sellmyer</i>	
Author Index	