

## CONTENTS

Foreword	v
Crystalline Microporous and Open Framework Materials <i>Xianhui Bu and Pingyun Feng</i>	1
Mesoporous Materials <i>Abdelhamid Sayari</i>	39
Macroporous Materials Containing Three-Dimensionally Periodic Structures <i>Younan Xia, Yu Lu, Kaori Kamata, Byron Gates and Yadong Yin</i>	69
CVD Synthesis of Single-Walled Carbon Nanotubes <i>Bo Zheng and Jie Liu</i>	101
Nanocrystals <i>M. P. Pileni</i>	127
Inorganic Fullerene-Like Structures and Inorganic Nanotubes from 2-D Layered Compounds <i>R. Tenne</i>	147
Semiconductor Nanowires: Functional Building Blocks for Nanotechnology <i>Haoquan Yan and Peidong Yang</i>	183
Harnessing Synthetic Versatility Toward Intelligent Interfacial Design: Organic Functionalization of Nanostructured Silicon Surfaces <i>Lon A. Porter and Jillian M. Buriak</i>	227
Molecular Networks as Novel Materials <i>Wenbin Lin and Helen L. Ngo</i>	261
Molecular Cluster Magnets <i>Jeffrey R. Long</i>	291
Block Copolymers in Nanotechnology <i>Nitash P. Balsara and Hyeok Hahn</i>	317

<b>The Expanding World of Nanoparticle and Nanoporous Catalysts</b> <i>Robert Raja and John Meurig Thomas</i>	329
<b>Nanocomposites</b> <i>Walter Caseri</i>	359