Functional Nanostructured Materials through Multiscale Assembly and Novel Patterning Techniques

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Functional Nanostructured Materials through Multiscale Assembly and Novel Patterning Techniques

Symposium held April 2–5, 2002, San Francisco, California, U.S.A.

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PREFACE

Symposium S," Functional Nanostructured Materials through Multiscale Assembly and Novel Patterning Techniques," was held April 2–5 at the 2002 MRS Spring Meeting in San Francisco, California. More than 140 papers were presented in ten sessions including two poster sessions. The sessions were well attended and the discussions were lively.

The symposium emphasized the broad scientific and technological interest in applications of materials on the nano-scale. Various approaches for self-assembly and patterning at the nano-scale formed the theme of the symposium. Numerous papers discussed approaches for synthesizing, characterizing and using nanocrystals, nanorods, nanotubes, nanoribbons, quantum dots, and quantum wires. Technological applications were diverse, including: nanoelectronics, nanophotonics, micro-contact printing, catalysts, chemical and biological sensors.

Symposium organizers were: S.H. Tolbert, R.M. Dickson, and P.T. Hammond. The symposium organizers, for personal reasons, chose not to participate in preparation of the proceedings volume. A symposium editor, Steven C. Moss, was recruited to perform the editorial function. The symposium editor and the MRS gratefully acknowledge the hard work of the symposium organizers in developing and running an excellent symposium.

Session chairs (in addition to the organizers) also included: U.B. Weisner, T. Lian, J.T. Fourkas, M. Srinivasarao, D.J. Norris, and Y. Xia. The organizers gratefully acknowledge their contribution.

Steven C. Moss

October 2002

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