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Biomimetic, Bio-inspired and Self-Assembled Materials for Engineered Surfaces and Applications

EDITORS

Michelle L. Oyen

Shelly R. Peyton

Gila E. Stein

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MATERIALS RESEARCH SOCIETY

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Biomimetic, Bio-inspired and Self-Assembled Materials for Engineered Surfaces and Applications

**MATERIALS RESEARCH SOCIETY
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Biomimetic, Bio-inspired and Self-Assembled Materials for Engineered Surfaces and Applications

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PREFACE

This volume represents a collection of papers from five distinct yet related symposia: Symposium L, “Biomimetic Nanoscale Platforms, Particles, and Scaffolds for Biomedical Applications”; Symposium M, “Bioinspired Directional Surfaces—From Nature to Engineered Textured Surfaces”; Symposium Q, “Functional and Responsive Materials Exploiting Peptide and Protein Self-Assembly”; Symposium R, “Fundamentals of Assembly in Biomolecular and Biomimetic Systems”; and Symposium S, “Directed Self-Assembly for Nanopatterning.” This volume is thus the first for which the papers are from a larger group of thematically-related symposia, with emphasis on bioinspiration and biomimicry, self-assembly and natural materials. There are 40 Proceedings papers contained herein, one from an invited speaker and 39 from contributed speakers, capturing a subset of the five individual symposia, in which a total of more than 500 papers were presented. The editors of this volume are indebted to the organizers of all five individual symposia for their efforts.

Michelle L. Oyen
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May 2013

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