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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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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
Shelly R. Peyton
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