



Biomimetic Synthetic Polymers: Inspired by Nature's Form and Function

D. H. Adamson

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This book focuses on principles, up-to-date topics, and applications of biomimetic synthetic polymers. It provides key ideas for readers in polymer science, organic chemistry, and biology who are interested in biomimetics. It covers fundamentals, approaches, and synthetic strategies, discussing the advantages and disadvantages of each. Emphasizing the use of synthetic polymers in biomimetics to reach optimal properties and lower the cost of processing, this book describes the importance and profitability of mimicking natural macromolecules. It begins by comparing and contrasting the synthesis of natural polymers and synthetic polymers. Each of the following chapters cover a different synthetic polymer and highlight mechanisms, applications, and reactions using examples, images, and detailed discussion. Chapters include protective surfaces, adhesive surfaces, catalysis, energy conservation, molecular recognition, fibers, supramolecular assembly, self-assembly, sensors, actuators, and templates. This book acts as a resource about biomimetic synthetic polymers and focuses on the application and function aspects that are not covered as much in existing literature.

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