

Directed Synthesis

David J. Fisher

Monograph / PDF eBook DRM Free

Structure-directed synthesis aims at the design and preparation of novel solid-state structures.

Keyword: Directed Synthesis, Multicomponent Colloidal Nanostructures, Nanoparticle-Seed Surfaces, Photocatalytic and Photo-Electrochemical Applications, Synthesis of Nanostructured Metal Oxides and Metal Oxalates, Wide-Bandgap Semiconductors and Metals with Surface Plasmon-Resonance Active Bands, Mesoporous Materials Possessing Multilevel Architectures, Spatially Distinct Nanostructured Organic and Inorganic Arrays, 2- and 3-Dimensional Periodic Composite Structures, Protein-Protein Interaction and DNA Hybridization, Polynuclear Complexes and Coordination Polymers of 3d Metals, Ultra-Small Metal Nanoclusters, Biomolecule-Nanocluster Composites, Nanostructured Sulphur-Carbon Nanotube Cathode

ISBN 13: 978-1-64490-275-2, **Publication Date:** 2023 (11/5/2023)

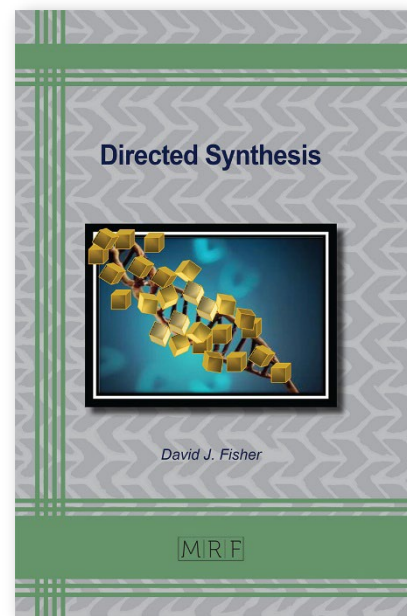
Direct URL: <https://www.mrforum.com/product/directed-synthesis>
144 pages, PDF eBook DRM Free, USD 95.00

Materials Research Foundations Vol. 152 / **BISAC:** TEC021000 / **BIC/Thema:** TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Structure-directed synthesis aims at the design and preparation of novel solid-state structures; using the structure-directing capability of some molecular additive, the so-called structure-directing agent. This general train of thought has led to the development of many weird and wonderful strategies. The book presents an in-depth review of the field and discusses the potential for further developments. Some of the topics are listed under 'Keywords'. The book references 343 original resources with their direct web links for in-depth reading.



Full Color Print Book Information

Directed Synthesis

David J. Fisher

Monograph / color print, paperback

Structure-directed synthesis aims at the design and preparation of novel solid-state structures.

Keyword: Directed Synthesis, Multicomponent Colloidal Nanostructures, Nanoparticle-Seed Surfaces, Photocatalytic and Photo-Electrochemical Applications, Synthesis of Nanostructured Metal Oxides and Metal Oxalates, Wide-Bandgap Semiconductors and Metals with Surface Plasmon-Resonance Active Bands, Mesoporous Materials Possessing Multilevel Architectures, Spatially Distinct Nanostructured Organic and Inorganic Arrays, 2- and 3-Dimensional Periodic Composite Structures, Protein-Protein Interaction and DNA Hybridization, Polynuclear Complexes and Coordination Polymers of 3d Metals, Ultra-Small Metal Nanoclusters, Biomolecule-Nanocluster Composites, Nanostructured Sulphur-Carbon Nanotube Cathode

ISBN 13: 978-1-64490-274-5, **Publication Date:** 2023 (11/5/2023)

Direct URL: <https://www.mrforum.com/product/directed-synthesis>
144 pages, color print, paperback, USD 95.00

Materials Research Foundations Vol. 152 / **BISAC:** TEC021000 / **BIC/Thema:** TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Structure-directed synthesis aims at the design and preparation of novel solid-state structures; using the structure-directing capability of some molecular additive, the so-called structure-directing agent. This general train of thought has led to the development of many weird and wonderful strategies. The book presents an in-depth review of the field and discusses the potential for further developments. Some of the topics are listed under 'Keywords'. The book references 343 original resources with their direct web links for in-depth reading.

