1. Record Nr. UNINA9910645894403321

Autore	Tashiro Kentaro
Titolo	Synthetic Molecular Sequences in Materials Science / / by Kentaro Tashiro
Pubbl/distr/stampa	Tokyo : , : Springer Japan : , : Imprint : Springer, , 2023
ISBN	9784431569336 9784431569329
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (74 pages)
Collana	NIMS Monographs, , 2197-9502
Disciplina	620.11
Soggetti	Supramolecular chemistry Molecules Chemistry Polymers Materials Supramolecular Chemistry Bio- and Macromolecules Chemical Synthesis Metal-organic Frameworks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to the Science of Molecular Sequences -- Synthetic Strategies of Molecular Sequences Linked with Static Bonds -- Synthetic Strategies of Molecular Sequences Linked with Dynamic Bonds -- Outcomes from Synthetic Molecular Sequences in Materials Science -- Future Perspectives: Sequence-based Point of View in Materials Science.
Sommario/riassunto	This monograph shares a newly emerging point of view among researchers and students in the field of materials science. Inspired by the presence of precisely determined molecular-level sequence structures in a wide range of biomolecules, a growing number of synthetic compounds with the same structural feature are appearing day by day. These examples in the interdisciplinary areas of materials science are collected in this monograph to provide readers with a good understanding of the state-of-the-art accessible structural level,

characteristic features, and future potentials of these types of compounds. The major target audience of this monograph include Ph. D. students and researchers who have just begun their careers, who are seeking novel research directions, ideas, and inspiration. Among the diverse examples of synthetic molecular sequences referred to in the monograph, experienced experts can also find work that is informative and relevant to their own research, making the book worthwhile reading for these specialists. .