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Nota di contenuto	Templated Organic Synthesis; Contents; 1 Templates in Organic Synthesis: Definitions and Roles; 1.1 Introduction - Early Templates; 1.2 The Definition of a Molecular Template; 1.3 Roles of Templates; 1.3.1 Thermodynamic and Kinetic Templates; 1.3.2 Covalent and Non-covalent Template-Substrate Interactions; 1.3.3 Topology of Reaction; 1.3.3.1 Cyclization templates; 1.3.3.2 Linear templates; 1.3.3.3 Interweaving templates; 1.3.4 Scavenger Templates; 1.3.5 Negative Templates; 1.4 Measuring Template Effects; 1.4.1 Qualitative Detection of Template Effects 1.4.2 Quantification of Kinetic Template Effects in Terms of Effective Molarity, Substrate Affinity, and Maximum Rate Enhancement 1.4.2.1 Linear templates; 1.4.2.2 Quantitative analysis of template effects in tethered reactions; 1.4.2.3 Cyclization templates; 1.5 Conclusion; Appendix 1a: Equations for Figure 1-5; Appendix 1b: Equations for Figure 1-10; References; 2 Templated Synthesis of Polymers - Molecularly Imprinted Materials for Recognition and Catalysis; 2.1 Introduction; 2.2 Preparation of Optically Active Linear Vinyl Polymers by Templated Synthesis 2.3 Exact Placement of Functional Groups on the Surfaces of Rigid Polymeric Materials Using Template Molecules 2.4 Molecular Imprinting in Polymeric Materials Using Template Molecules; 2.4.1 The Principle; 2.4.2 The Optimization of the Structure of the Polymer Network; 2.4.3 The Role of the Binding-site Interactions; 2.4.4 Chiroptical Properties of the Crosslinked Polymers; 2.4.5 Chromatography Using Molecularly Imprinted Polymers; 2.4.6 Catalysis With Molecularly Imprinted Polymers; 2.4.7 Outlook; 2.5 Experimental Procedures; 2.5.1 Polymer from Scheme 2-5 2.5.1.1 Preparation of template monomer 7 [34]; 2.5.1.2 Preparation of the polymer [35]; 2.5.2 Polymer from Scheme 2-6; 2.5.2.1 Thermally initiated polymerization [36]; 2.5.2.2 Photochemically initiated polymerization [50]; 2.5.3 Polymer from Scheme 2-9 [136, 137]; 2.5.3.1 N-Ethyl-4-vinylbenzamide; 2.5.3.2 N-Ethyl-4-vinylbenzocarbodiimide acid ethyl ester; 2.5.3.3 N,N'-Diethyl-4-vinylbenzimidine (10a); 2.5.4 Preparation of the polymer [112]; References; 3 Templated Synthesis of Catenanes and Rotaxanes; 3.1 Introduction; 3.2 Metal-Templated Syntheses; 3.3 Hydrogen Bonding-assisted Syntheses 3.4 Hydrophobically Driven Syntheses 3.5 Aromatic Templates; 3.6 Dialkylammonium-containing Rotaxanes; 3.7 Conclusions; 3.8 Experimental Procedures; 3.8.1 [2]Catenane 4 [13]; 3.8.2 [2]Catenane 12 [16]; 3.8.3 [2]Catenane 43 [31]; 3.8.4 [2]Rotaxane 51 [38]; 3.8.5 [2]Rotaxane 56 [381]; 3.8.6 [2]Rotaxane 68 [45]; References; 4 Templated Synthesis of Carceplexes, Hemicarceplexes, and Capsules; 4.1 Introduction; 4.2 Carceplexes; 4.2.1 The First Soluble Carceplex; 4.2.1.1 Template ratios in the formation of an acetal-bridged carceplex; 4.2.1.2 Formation of a charged hydrogen bonded complex 4.2.1.3 Mechanism of formation for an acetal-bridged carceplex
Sommario/riassunto	Template-controlled reactions allow the synthesis of complex molecules which would hardly be achievable through classical methods. This handbook offers authoritative information on how noncovalent and covalent templates can be effectively applied to control reaction rates as well as regio- and stereoselectivity. From the concepts of

template control such as molecular imprinting, self-replication, and reversible tether-directed remote functionalization, the reader is led to template-based ring-closing reactions, oligomerizations, and multiple functionalizations and their application in the synt
