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Autore	KELBY, Scott
Titolo	Illumina scatta ritocca : da uno studio vuoto all'immagine finale / Scott Kelby
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Titolo	Handbook of RAFT polymerization [[electronic resource] /] / edited by Christopher Barner-Kowollik
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Altri autori (Persone)	Barner-KowollikChristopher
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Nota di contenuto	Handbook of RAFT Polymerization; Contents; List of Contributors; 1 Introduction; 2 Quantum-Chemical Studies of RAFT Polymerization: Methodology, Structure-Reactivity Correlations and Kinetic Implications; 2.1 Introduction; 2.2 Methodology; 2.3 Computational Modeling of RAFT Kinetics; 2.4 Structure-Reactivity Studies; 2.5 Abbreviations; 3 The Mechanism and Kinetics of the RAFT Process: Overview, Rates, Stabilities, Side Reactions, Product Spectrum and Outstanding Challenges; 3.1 History; 3.2 Preequilibrium Kinetics and Mechanism; 3.3 Main Equilibrium Kinetics and Mechanism 3.4 Mechanisms for Rate Retardation/Inhibition - Outstanding Questions3.5 RAFT Copolymerization: Block and Statistical Copolymers; 3.6 The Kinetics and Mechanism of Star and Graft Polymer Formation Processes; 3.7 Mechanism and Kinetics as a Guide for the Synthetic Polymer Chemist; 4 The RAFT Process as a Kinetic Tool: Accessing Fundamental Parameters of Free Radical Polymerization; 4.1 Introduction; 4.2 Chain-Length-Dependent Termination: A Brief Overview; 4.3 RAFT Chemistry as a Tool for Elucidating the Chain Length Dependence of k(t); 4.4 Chain-Length-Dependent Propagation

## Rate Coefficients

5 The Radical Chemistry of Thiocarbonylthio Compounds: An Overview 5.1 Historical Overview and Early Chemistry; 5.2 The Barton-McCombie Deoxygenation; 5.3 A Minor Mechanistic Controversy; 5.4 A New Degenerative Radical Process; 5.5 Synthetic Routes to Thiocarbonylthio Derivatives; 5.6 Some Synthetic Applications of the Degenerative Radical Transfer to Small Molecules; 5.7 Applications to Controlled Radical Polymerizations; 5.8 Concluding Remarks; 6 RAFT Polymerization in Bulk Monomer or in (Organic) Solution; 6.1 Introduction; 6.2 RAFT Agents; 6.3 RAFT Polymerization 6.4 RAFT Polymerization Conditions 6.5 Abbreviations; 7 RAFT Polymerization in Homogeneous Aqueous Media: Initiation Systems, RAFT Agent Stability, Monomers and Polymer Structures; 7.1 Introduction; 7.2 Initiation Systems; 7.3 RAFT Agent Stability; 7.4 Suitable Monomers; 7.5 Examples of Experimental Procedures; 8 RAFT-Mediated Polymerization in Heterogeneous Systems; 8.1 Introduction; 8.2 Effect of C(tr,RAFT) on M(n) and PDI in Homogeneous Systems; 8.3 Raft in Heterogeneous Systems; 8.4 Conclusion; 9 Complex Architecture Design via the RAFT Process: Scope, Strengths and Limitations 9.1 Complex Polymer Architectures 9.2 Block Copolymers; 9.3 Star Polymers via RAFT Polymerization; 9.4 Comb Polymers; 9.5 Other Complex Architectures; 9.6 Conclusions; 10 Macromolecular Design by Interchange of Xanthates: Background, Design, Scope and Applications; 10.1 Introduction; 10.2 History of MADIX Polymerization; 10.3 Mechanism of MADIX Polymerization; 10.4 Kinetics of MADIX Polymerization; 10.5 Choice of MADIX Agents; 10.6 Synthesis of MADIX Agents; 10.7 Experimental Conditions in MADIX; 10.8 Monomers Polymerizable by MADIX; 10.9 MADIX Polymerization in Waterborne Dispersed Media 10.10 Macromolecular Engineering by MADIX

## Sommario/riassunto

Spanning the entire field from fundamentals to applications in material science, this one-stop source is the first comprehensive reference for polymer, physical and surface chemists, materials scientists, chemical engineers, and those chemists working in industry. From the contents: \* Introduction: Living Free Radical Polymerization and the RAFT Process \* Fundamental Structure-Reactivity Correlations Governing the RAFT Process \* Mechanism and Kinetics \* The RAFT Process as a Kinetic Tool \* Theory and Practice in Technical Applications \* RAFT Polymerization in Bulk and Org