

1. Record Nr.	UNINA9910483215803321
Titolo	Green organic reactions // Gopinathan Anilkumar, Salim Saranya, editors
Pubbl/distr/stampa	Singapore : , : Springer, , [2021] ©2021
ISBN	981-336-897-7
Descrizione fisica	1 online resource (xx, 338 pages) : illustrations
Collana	Materials horizons
Disciplina	660.0286
Soggetti	Green chemistry Chemistry, Organic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Contents -- About the Editors -- Abbreviations -- 1 Introduction to Green Chemistry -- 1 Introduction -- 2 History and Origins of Green Chemistry -- 3 Green Chemistry for the Environment -- 4 Green Chemistry and Other Chemistry -- 5 Benefits of Green Chemistry -- 6 Future of Green Chemistry -- 7 Conclusion -- References -- 2 Principles of Green Chemistry -- 1 Introduction -- 2 Basic Concepts of Green Chemistry -- 2.1 Preventing Waste Formation is Better Than Processing after it is Created -- 2.2 Achieve the Maximum Atom Economy -- 2.3 Designing Less Dangerous Chemical Technologies -- 2.4 Chemicals with High Functional Efficiency and Minimum Toxicity should be Designed -- 2.5 Usage of Benign Solvents and Auxiliaries -- 2.6 Increase in Energy Efficiency -- 2.7 Utilization of the Renewable Raw Materials that Are not Exhaustible -- 2.8 Avoid Derivative Processes -- 2.9 Catalysts are more Specialized than Selective Reagents -- 2.10 Designing the Chemical Products so that they do not Settle in the Environment (Biodegradable Materials) -- 2.11 Real-Time Analysis for Pollution Prevention -- 2.12 Reducing the Possibility of Accidents -- 3 Conclusion -- References -- 3 Organic Reactions in Water -- 1 Introduction -- 2 Reactions on Water -- 2.1 Catalyst-Free Reactions on Water -- 2.2 Reactions on Water Using Metal Catalyst -- 3 Organic Reactions in Water: Reactions in Micellar Media -- 3.1 Reactions

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