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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- About the Editors -- Preface -- List of Abbreviations -- Chapter 1 An Introduction to Organic Transformations in Water -- 1.1 The Emergence of Water as a Solvent in Organic Chemistry -- 1.2 Green Chemistry and Water -- 1.3 Conclusion -- References -- Chapter 2 Chemistry of "OnWater" Reactions -- 2.1 Introduction -- 2.1.1 Classification of InWater and OnWater Reactions -- 2.1.2 Mechanistic Aspects -- 2.1.3 Influence of Stirring Rate -- 2.1.4 OnDroplet Effects -- 2.2 Broadening the Scope of OnWater Reactions -- 2.2.1 LightMediated Reactions -- 2.2.2 Electrochemical Reactions -- 2.2.3 Flow Chemistry -- 2.2.4 Prebiotic Chemistry -- 2.3 Conclusions -- References -- Chapter 3 Chemistry of "InWater" Reactions: Spotlights on Micellar and PhaseTransfer Catalysis -- 3.1 Introduction -- 3.2 Understanding the Concept of Micellar Catalysis -- 3.3 Basic Principles of PhaseTransfer Catalysis -- 3.4 Highlights of Micellar

Catalysis

Sommario/riassunto

This book, 'Organic in Water: Principles and Applications,' edited by Gopinathan Anilkumar, Nissy Ann Harry, and M. Ujwaldev, explores the use of water as a solvent in organic chemistry, emphasizing its role as a green alternative to traditional solvents. It covers various reaction types, including 'On-Water' and 'In-Water' reactions, micellar catalysis, C–H activation, and oxidation and reduction processes. The book is designed for researchers in organic chemistry, highlighting recent advancements and industrial applications of organic reactions in aqueous environments. It aims to promote safer and more environmentally friendly chemical processes.

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