1. Record Nr. UNINA9910815307203321

Titolo	Organic reaction mechanisms . 2010 / / edited by A.C. Knipe
Pubbl/distr/stampa	Chichester, West Sussex, : Wiley, 2012
ISBN	9786613916433 9781119943570 1119943574 9781119941910 1119941911 9781283603980 1283603985 9781119941903 1119941903
Edizione	[1st ed.]
Descrizione fisica	1 online resource (573 p.)
Collana	Organic reaction mechanisms ; ; 2010
Altri autori (Persone)	KnipeA. C
Disciplina	547.2
Soggetti	Physical organic chemistry Reaction mechanisms (Chemistry)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Asymmetric Aldols Catalysed by Proline and its DerivativesOther Asymmetric Aldols; Mukaiyama and Vinylogous Aldols; Other Aldol and Aldol-type Reactions; The Henry (Nitroaldol) Reaction; The Baylis-Hillman Reaction and its Morita-variant; Allylation and Related Reactions; The Horner-Wadsworth-Emmons Reaction and Other Olefinations; Alkynylations; Benzoin Condensation and Pinacol Coupling; Michael Additions; Miscellaneous Condensations; Other Addition Reactions; Addition of Organozincs; Arylations; Addition of Other Organometallics, Including Grignards; The Wittig Reaction Hydrocyanation, Cyanosilylation, and Related AdditionsHydrosilylation, Hydrophosphonylation, and Related Reactions; Enolization and Related Reactions; -Halogenation, -Alkylation, and Other -Substitutions; Oxidation and Reduction of Carbonyl Compounds; Regio-, Enantio-, and Diastereo-selective Reduction Reactions; Other Reduction

Reactions; Oxidation Reactions; Atmospheric Reactions; Other Reactions; References; Chapter 2. Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives; Intermolecular Catalysis and Reactions; Carboxylic Acids and their Derivatives; (a) Acids
(b) Esters(c) Acyl Halides; (d) Amides and Imides; (e) Carbonates, Carbamates, and Hydrazides; (f) Other Heterocyclic Nitrogen Centres; (g) Thioesters, Thiocarbonates, Thiocarbamates, and Thioacyl Halides; Phosphoric Acids and their Derivatives; (a) Phosphoryl and Phosphonyl Halides; (b) Thiophosphates and Thiophosphonates; Sulfonic Acids and their Derivatives; (a) Sulfonates; Intramolecular Catalysis and Neighbouring Group Participation; Association-Prefaced Catalysis; Biologically Significant Reactions; Carboxylic Acids and their Derivatives; (a) Acids; (b) Esters and Carbonates; (c) Amides Phosphoric Acids and their Derivatives(a) Phosphate and Phosphonate Monoesters; (b) Phosphate and Phosphonate Diesters; (c) Phosphate Triesters; (d) Phosphoramidates; References; Chapter 3. Oxidation and Reduction; Oxidation by Metal Ions and Related Species; Chromium, Manganese, and Nickel; Copper, Silver, Gold, and Thallium; Cerium and Vanadium; Bismuth and Palladium; Group VIII Metals; Oxidation by Compounds of Non-metallic Elements; Nitrogen and Sulfur; Halogens; Ozonolysis and Ozonation; Peracids and Peroxides; Photo-oxygenation and Singlet Oxygen; Triplet Oxygen and Autoxidation
Other Oxidations

Sommario/riassunto

Organic Reaction Mechanisms 2010, the 46th annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2010. It details the latest progress in a wide range of classes of organic reaction mechanisms, including reactions of different compounds and acids and their derivatives, oxidation and reduction, aliphatic substitutions, elimination reactions, and molecular rearrangements, to name a few. An experienced team of authors compiled these reviews, ensuring the quality of selection and presentation.