

1. Record Nr.	UNINA9911019235403321
Titolo	Name reactions for functional group transformations // edited by Jie Jack Li, E.J. Corey
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2007
ISBN	9786610935390 9781280935398 1280935391 9780470176511 0470176512 9780470176504 0470176504
Descrizione fisica	1 online resource (769 p.)
Collana	Comprehensive Name Reactions ; ; v.1
Altri autori (Persone)	LiJie Jack CoreyE. J
Disciplina	547/.2
Soggetti	Organic compounds - Synthesis Chemical reactions
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 index.
Nota di contenuto	Asymmetric synthesis. CBS reduction ; Davis chiral oxaziridine reagents ; Midland reduction ; Noyori catalytic asymmetric hydrogenation ; Sharpless asymmetric hydroxylation reactions -- Reduction. Eschweiler-Clark reductive alkylation of amines ; Gribble reduction of diaryl ketones ; Luche reduction ; Meerwein-Ponndorf-Verley reduction ; Staudinger reaction ; Wharton reaction -- Oxidation. Baeyer-Villiger oxidation ; Brown hydroboration reaction ; Burgess dehydrating reagent ; Corey-Kim oxidation ; Dess-Martin periodinane oxidation ; Tamao-Kumada-Fleming oxidation ; Martin's sulfurane dehydrating reagent ; Oppenauer oxidation ; Prilezhaev reaction ; Rubottom oxidation ; Swern oxidation ; Wacker-Tsuji oxidation ; Woodward cis-dihydroxylation -- Olefination. Chugaev elimination ; Cope elimination reaction ; Corey-Winter olefin synthesis ; Perkin reaction (cinnamic acid synthesis) ; Perkow vinyl phosphate synthesis ; Ramberg-Backlund olefin synthesis

; Shapiro reaction ; Zaitsev elimination -- Amine synthesis. Fukuyama amine synthesis ; Gabriel synthesis ; Leuckart-Wallach reaction -- Carboxylic acid derivatives synthesis. Fischer-Speier esterification ; Mukaiyama esterification ; Ritter reaction ; Strecker amino acid synthesis ; Yamada coupling reagent ; Yamaguchi esterification -- Miscellaneous functional group manipulations. Balz-Schiemann reaction ; Buchwald-Hartwig reactions ; Haloform reaction ; Hunsdiecker reaction ; Japp-Klingemann hydrazone synthesis ; Krapcho decarboxylation ; Nef reaction ; Prins reaction ; Regitz diazo synthesis ; Sommelet reaction.

Sommario/riassunto

This practical, well-organized reference delves deeply into functional group transformations, to provide all the detailed information that researchers need. Topics are organized into the following sections: oxidation, reduction, asymmetric synthesis, and functional group manipulations. Each section includes a description of the functional group transformation, the historical perspective, mechanisms, variations and improvements on the reaction, synthetic utilities and applications for the reaction, experimental details, and references to the primary literature. Contributors are
