1. Record Nr. UNINA9910254039003321

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Titolo	Copper-Catalyzed Electrophilic Amination of sp2 and sp3 CH Bonds / / by Stacey L. McDonald
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-38878-9
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XXIII, 144 p. 8 illus.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	546.652595
Soggetti	Organometallic chemistry Medicinal chemistry Chemical engineering Organometallic Chemistry Medicinal Chemistry Industrial Chemistry/Chemical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Electrophilic amination for the synthesis of alkyl and aryl amines -- Selective -amination and -acylation of esters and amides via dual reactivity of O-acylhydroxylamines toward zinc enolates -- Copper-catalyzed -amination of phosphonates and phosphine oxides: a direct approach to -amino phosphonic acids and derivatives -- Copper-Catalyzed Electrophilic Amination of Heteroarenes and Arenes by CH Zincation.
Sommario/riassunto	This thesis reports the latest developments in the direct amination of various CH bonds using an HZn exchange/electrophilic amination strategy. McDonald and co-workers reveal this approach to be a rapid and powerful method for accessing a variety of functionalized amines. The material outlined in this book shows how McDonald achieved CH zincation using strong, non-nucleophilic zinc bases and subsequent electrophilic amination of the corresponding zinc carbanions with copper as a catalyst and O-benzoylhydroxylamines as the electrophilic nitrogen source. McDonald’s findings are of relevance to medicinal

chemistry, drug discovery and materials science. Her thesis is a source of inspiration for scientists entering the field and students beginning their PhD in a related area. .