1. Record Nr. UNINA9910767511703321

Titolo	C-H Bond Activation and Catalytic Functionalization I / / edited by Pierre H. Dixneuf, Henri Doucet
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-24630-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VIII, 264 p. 150 illus., 50 illus. in color.)
Collana	Topics in Organometallic Chemistry, , 1436-6002 ; ; 55
Disciplina	547.05
Soggetti	Organometallic chemistry Catalysis Carbohydrates Organometallic Chemistry Carbohydrate Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Rh(III) and Ir(III) catalyzed C-C bond cross couplings from C-H bonds -- Rh(III) and Ir(III)-catalyzed C-H bond transformations to Carbon-heteroatom bonds -- Computational Studies on Heteroatom-Assisted C-H Activation and Functionalization at Group 8 and 9 Metal Centres -- Recent developments in Pd-catalyzed direct arylations of heteroarenes with aryl halides -- New coupling partners for Pd-catalysed C-H bond functionalization of heteroarenes -- Functionalization of [60]Fullerene via Palladium-Catalyzed C-H Bond Activation -- Ruthenium(II)-catalyzed functionalization of C-H bonds with alkenes: alkenylation versus alkylation -- Ruthenium-catalyzed C-N and C-O bond forming processes from C-H bond functionalization -- meta- and para-Selective C-H Functionalization by C-H Activation.
Sommario/riassunto	The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry. As our understanding of organometallic structure, properties and mechanisms increases, new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis, medical research, biology and materials science.

Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry, where new breakthroughs are being achieved that are of significance to a larger scientific audience. The individual volumes of Topics in Organometallic Chemistry are thematic. Review articles are generally invited by the volume editors. All chapters from Topics in Organometallic Chemistry are published OnlineFirst with an individual DOI. In references, Topics in Organometallic Chemistry is abbreviated as Top Organomet Chem and cited as a journal.