Record Nr. UNINA9910767502203321 C-H Bond Activation and Catalytic Functionalization II / / edited by **Titolo** Pierre H. Dixneuf, Henri Doucet Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2016 **ISBN** 3-319-29319-2 Edizione [1st ed. 2016.] Descrizione fisica 1 online resource (VII, 212 p.) Collana Topics in Organometallic Chemistry, , 1436-6002; ; 56 Disciplina 547.05 Soggetti Organometallic chemistry Catalysis Carbohydrates Organometallic Chemistry Carbohydrate Chemistry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Iron-Catalyzed C-H Bond Activation -- Nickel-catalyzed C-H bond Nota di contenuto functionalization -- Copper-Mediated Intermolecular C-H/C-H and C-H/N-H Couplings via Aromatic C-H cleavage -- The Effects of Ancillary Ligands on Metal-Carbon Bond Strengths as Determined via C-H Activation -- Catalytic C-H bond functionalization of cyclopropane derivatives -- Silver-Mediated Direct sp3 C-H Transformations --Applications of catalytic organometallic C(sp3)-H Bond functionalization -- New concepts of C-H and C-C bond activation via surface organometallic chemistry -- Transfer Dehydrogenations of Alkanes and Related Reactions using Iridium Pincer Complexes. The series Topics in Organometallic Chemistry presents critical Sommario/riassunto 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

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