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Titolo	Applications of transition metal catalysis in drug discovery and development [[electronic resource]] : an industrial perspective // edited by Matthew L. Crawley, Barry M. Trost
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2012
ISBN	1-280-59238-9 9786613622211 1-118-30983-9 1-118-30987-1 1-118-30986-3
Descrizione fisica	1 online resource (376 p.)
Altri autori (Persone)	CrawleyMatthew L TrostBarry M
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Transition metal catalysis in the pharmaceutical industry / Carl A. Busacca ... [et al.] -- Selected applications of transition metal-catalyzed carbon-carbon cross-coupling reactions in the pharmaceutical industry / Hong C. Shen -- Selected applications of Pd and Cu-catalyzed carbon-heteroatom cross-coupling reactions in the pharmaceutical industry / Jingjun Yin -- Asymmetric cross-coupling reactions / William A. Szabo and Vince Yeh -- Metathesis / Oliver Thiel -- Transition metal-catalyzed synthesis of five and six membered heterocycles / Cheol K. Chung and Matthew L. Crawley -- Oxidative catalysis / Lamont Terrell -- Industrial asymmetric hydrogenation / Hans-Ulrich Blaser.
Sommario/riassunto	This book focuses on the drug discovery and development applications of transition metal catalyzed processes, which can efficiently create preclinical and clinical drug candidates as well as marketed drugs. The authors pay particular attention to the challenges of transitioning academically-developed reactions into scalable industrial processes. Additionally, the book lays the groundwork for how continued

development of transition metal catalyzed processes can deliver new drug candidates. This work provides a unique perspective on the applications of transition metal catalysis in drug discovery
