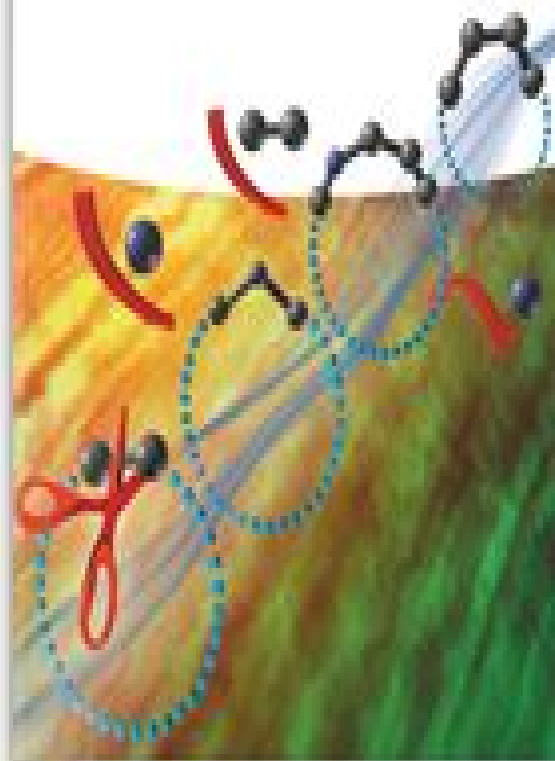


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Cleavage of Carbon-Carbon Single Bonds by Transition Metals



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Cleavage of Carbon-Carbon Single Bonds by Transition Metals Masahiro Murakami, Naoto Chatani, 2015-09-21 Edited by leading experts and pioneers in the field this is the first up to date book on this hot topic The authors provide synthetic chemists with different methods to activate carbon carbon sigma bonds in organic molecules promoted by transition metal complexes They explain the basic principles and strategies for carbon carbon bond cleavage and highlight recently developed synthetic protocols based on this methodology In so doing they cover cleavage of C C bonds in strained molecules reactions involving elimination of carbon dioxide and ketones reactions via retroallylation and cleavage of C C bonds of ketones and nitriles The result is an excellent information source for researchers in academia and industry working in the field of synthetic organic chemistry while equally serving as supplementary reading for advanced courses in organometallic chemistry and catalysis *Early Transition Metal to Carbon Single, Double, and Triple Bonds* Jeffrey Hayward Wengrovius, 1981 **Group 10 Transition Metal-catalyzed Carbon-carbon Bond Forming Reactions** Kaixu Yuan, 1990 *Investigations of Group IVA Transition Metal Mediated Carbon-carbon Bond Forming Reactions* Ernest Byron Wysong, California Institute of Technology. Division of Chemistry and Chemical Engineering, 1990 [Carbon-carbon Bond Manipulation Using First Row Transition Metals](#) James S. M. Sochan, 2003 **The Chemistry of Transition Metal Carbides and Nitrides** S.T. Oyama, 1996-01-31 This book arose from a symposium titled Transition Metal Carbides and Nitrides Preparation Properties and Reactivity organized by Jae Sung Lee Masatoshi Nagai and myself The symposium was part of the 1995 Congress of Pacific Rim Chemical Societies held in Honolulu Hawaii between December 17 22 1995 The meeting was the first major conference to exclusively address the theme of metal carbides and nitrides and brought together many of the major researchers in the field Over 50 scientists and engineers reported their latest findings in five sessions of presentations and discussions The book closely follows the topics covered in the conference Theory of bonding Structure and composition Catalytic properties Physical properties New methods of preparation Spectroscopy and microscopy The book is unique in its coverage It provides a general introduction to the properties and nature of the materials but also covers their latest applications in a wide variety of fields It should thus be of interest to both experts and nonexperts in the fields of material science solid state chemistry physics ceramics engineering and catalysis The first chapter gives an overview and many of the chapters provide summaries of advanced topics All contributions were peer reviewed **Chemical Bonding in Transition Metal Carbides** Sir Alan Cottrell, 2024-12-20 This book presents a mainly qualitative understanding of this family of materials which ranges from simple NaCl type compounds to complex chromium carbides **New Intramolecular Carbon-carbon Bond Forming Reactions in Transition Metal Complexes** Chenjie Wang, 1993 **Development of Transition Metal Catalyzed Carbon-carbon Bond Forming Reactions with Abundant Or Scarce Chemicals** Tom Tuan Luong, 2017 **Transition Metals** D. W. A. Sharp, 1972 Pt 1 Edited by D W A Sharp pt 2 Edited by M J Mays **Transition**

Metal Catalyzed Carbon-carbon Bond Activation Penghao Chen,2017 **Development of Transition-metal Catalyzed/mediated Reductive Carbon-carbon Bond Forming Reactions** Venukrishnan Komanduri,2009 *New Transition-metal-mediated Higher-order Cycloaddition Reactions and Carbon-carbon Bond-forming Reactions* Karen Chaffee,1996 **Transition Metal-catalysed Carbon-carbon Bond Formation in Ionic Liquid** James Ross,University of Liverpool,2003 Transition Metal Complexes of Neutral Eta¹-Carbon Ligands Remi Chauvin,Yves Canac,2010 Part I, Carbon-carbon Bond Formation Via Transition Metal Catalysis. Part II, Studies Toward the Total Synthesis of Marcfortine A David Andrew Horne,1984 *Chemical Bonding in Transition Metal Carbides* Alan Cottrell,1995 This book presents a mainly qualitative understanding of this family of materials which ranges from simple NaCl type compounds to complex chromium carbides **Carbon-Carbon Bond Formation Via Radical Cyclization and Transition Metal Catalysis** Puneet Srivastava,2010 **Transition Metal Catalyzed Oxidative Cleavage of C-O Bond** Jiaqi Wang,2015
Carbon-carbon Bond Formation Via Transition Metal-catalyzed Transfer Hydrogenative Carbonyl Addition Brian Joseph Spinello,2022

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