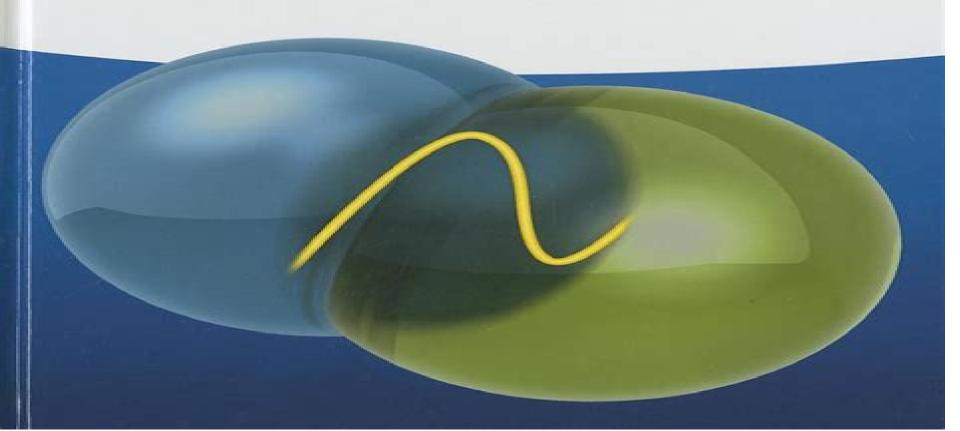
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# Bridging Heterogeneous and Homogeneous Catalysis

Concepts, Strategies, and Applications



Can Li, Yan Liu

Bridging Heterogeneous and Homogeneous Catalysis Can Li, Yan Liu, 2014-04-03 There are two main disciplines in catalysis research homogeneous and heterogeneous catalysis This is due to the fact that the catalyst is either in the same phase homogeneous catalysis as the reaction being catalyzed or in a different phase heterogeneous catalysis Over the past decade various approaches have been implemented to combine the advantages of homogeneous catalysis efficiency selectivity with those of heterogeneous catalysis stability recovery by the heterogenization of homogeneous catalysts or by carrying out homogeneous reactions under heterogeneous conditions This unique handbook fills the gap in the market for an up to date work that links both homogeneous catalysis applied to organic reactions and catalytic reactions on surfaces of heterogeneous catalysts As such it highlights structural analogies and shows mechanistic parallels between the two while additionally presenting kinetic analysis methods and models that either work for both homogeneous and heterogeneous catalysis Chapters cover asymmetric emulsion phase transfer supported homogeneous and organocatalysis as well as in nanoreactors and for specific applications catalytic reactions in ionic liquids fluorous and supercritical solvents and in water Finally the text includes computational methods for investigating structure reactivity relations With its wealth of information this invaluable reference provides academic and industrial chemists with novel concepts for innovative catalysis research

Towards Green Chemical Processes: Strategies and Innovations Pallavi Jain, Sapna Raghav, Anil Kumar Tangir, 2025-08-01 This book is designed for forward thinking professionals researchers and senior students in chemistry chemical engineering and industrial manufacturing this essential resource explores how green chemistry can be effectively applied in real world industrial settings It also speaks directly to environmental engineers and sustainability experts eager to stay ahead of emerging trends and innovations in sustainable practices With practical insights tailored for industry leaders and policymakers committed to reducing environmental impact this work delivers scalable solutions and cutting edge strategies for transforming industrial processes A vital tool for anyone looking to drive meaningful change it empowers organizations to meet sustainability targets while enhancing efficiency and innovation **Principles and Practice of** Heterogeneous Catalysis John Meurig Thomas, W. John Thomas, 2015-02-09 This long awaited second edition of the successful introduction to the fundamentals of heterogeneous catalysis is now completely revised and updated Written by internationally acclaimed experts this textbook includes fundamentals of adsorption characterizing catalysts and their surfaces the significance of pore structure and surface area solid state and surface chemistry poisoning promotion deactivation and selectivity of catalysts as well as catalytic process engineering A final section provides a number of examples and case histories With its color and numerous graphics plus references to help readers to easily find further reading this is a pivotal work for an understanding of the principles involved Solvent-Free Methods in Nanocatalysis Rafael Luque, Manoj B. Gawande, Esmail Doustkhah, Anandarup Goswami, 2023-01-11 Solvent Free Methods in Nanocatalysis

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researchers and engineers in the chemical industry Cleavage of Carbon-Carbon Single Bonds by Transition Metals Masahiro Murakami, Naoto Chatani, 2015-12-21 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

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