

Chemistry Research and Applications

Focus on Catalysis Research

New Developments

Minjae Ghang
Bjørn Ramel
Editors



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American Chemical Society



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Focus on Catalysis Research Minjae Ghang,Bjørn Ramel,2014-05-14 This book presents current research in the study of the principles types and applications of catalysis Topics discussed in this compilation include macroporous materials a new kind of eco compatible hybrid biocatalyst for selective reactions new research in polymer supported catalysts ionic liquids as a catalyst or solvent for various organic transformations hybrid organic inorganic materials preparation and characterization of coated microchannels for the selective catalytic reduction of NO_x and emerging catalysts for wet air oxidation process

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its publication Concepts of Modern Catalysis and Kinetics has become a standard textbook for graduate students at universities worldwide Emphasizing fundamentals from thermodynamics physical chemistry spectroscopy solid state chemistry and quantum chemistry it introduces catalysis from a molecular perspective and stresses how it is interwoven with the field of reaction kinetics The authors go on to explain how the world of reacting molecules is connected to the real world of industry by discussing the various scales nano micro macro that play a role in catalysis Reflecting the modern day focus on energy supplies this third edition devotes attention to such processes as gas to liquids coal to liquids biomass conversion and hydrogen production From reviews of the prior editions Overall this is a valuable book that I will use in teaching undergraduates and postgraduates Angewandte Chemie I E this excellent book is highly recommended to students at technical universities but also entrants in chemical industry Furthermore this informative handbook is also a must for all professionals in the community AFS I am impressed by the coverage of the book and it is a valuable addition to the catalysis literature and I highly recommend purchase Energy Sources

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Luz Jr.,Elson Longo,Laécio Santos Cavalcante,2025-09-16 Currently many of the technological advances around the world are limited by the lack of understanding about materials science and its applications Beginning researchers in materials sciences worldwide have had great difficulty developing their research This book is aimed at undergraduate students and researchers in materials sciences It aims to provide a greater understanding of the potential of semiconductor materials for environmental applications such as renewable energy energy storage systems and remediation of degraded environments

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