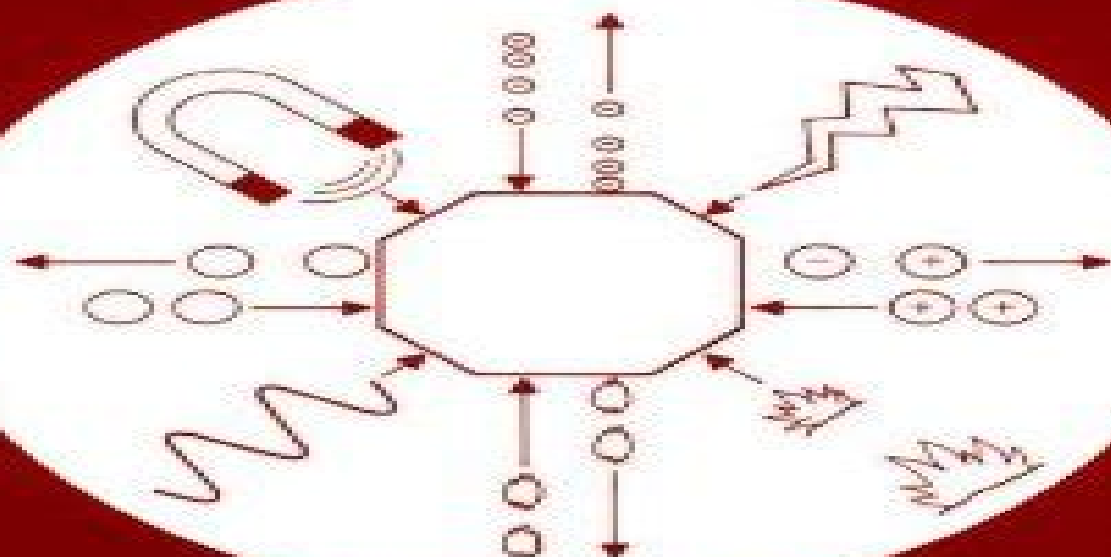


studies in surface science and catalysis



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NEW DEVELOPMENTS IN SELECTIVE OXIDATION BY HETEROGENEOUS CATALYSIS

**P. Ruiz and B. Delmon
(editors)**

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New Developments In Selective Oxidation By Heterogeneous Catalysis

P. Ruiz, B. Delmon



New Developments In Selective Oxidation By Heterogeneous Catalysis:

New Developments in Selective Oxidation by Heterogeneous Catalysis P. Ruiz, B. Delmon, 1992-02-06 This volume contains invited papers and communications presented at the Third European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis The purpose of the meeting was to present recent results and to discuss new aspects of partial oxidation by heterogeneous catalysis The following topics were discussed Novel processes for obtaining new fine chemicals by catalytic partial oxidation selective oxidation and oxidative dehydrogenation of alkanes new catalysts and advances in preparation methods of oxidation catalysts new phenomena in partial oxidation and new aspects of surface chemistry in oxide catalysts new applications of physicochemical methods for characterization of oxide catalysts oxidation with other agents than oxygen and catalytic oxidation of carbohydrates This book will provide a valuable set of data on reactions of selective oxidation which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field The wide range approach to reactions of selective oxidation will disseminate knowledge in specialized areas of selective oxidation and encourage innovation and creativity

New Developments in Selective Oxidation by Heterogeneous Catalysis (Volume 72). Ruiz P., 1991 New Developments in Selective Oxidation by Heterogeneous Catalysis Patricio Ruiz, Bernard Delmon, 1992-01-01 This volume contains invited papers and communications presented at the Third European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis The purpose of the meeting was to present recent results and to discuss new aspects of partial oxidation by heterogeneous catalysis The following topics were discussed Novel processes for obtaining new fine chemicals by catalytic partial oxidation selective oxidation and oxidative dehydrogenation of alkanes new catalysts and advances in preparation methods of oxidation catalysts new phenomena in partial oxidation and new aspects of surface chemistry in oxide catalysts new applications of physicochemical methods for characterization of oxide catalysts oxidation with other agents than oxygen and catalytic oxidation of carbohydrates This book will provide a valuable set of data on reactions of selective oxidation which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field The wide range approach to reactions of selective oxidation will disseminate knowledge in specialized areas of selective oxidation and encourage innovation and creativity

New Developments in Selective Oxidation G. Centi, F. Trifiró, 1990-04-26 Approx 890 pages New Developments in Selective Oxidation II V. Cortés Corberán, S. Vic Bellón, 1994-06-21 This volume contains invited papers and communications presented at the Second World Congress and Fourth European Workshop Meeting on New Developments in Selective Oxidation The purpose of the meeting was to present new topics and recent advances as well as the discussion of new aspects of fundamental and applied aspects of partial selective oxidation in heterogeneous and homogeneous catalysis The following topics were discussed New processes for fine chemicals by catalytic oxidation Recent developments in surface

chemistry of oxide catalysts Novel catalytic systems and preparation methods Heterogenized homogeneous oxidation catalysts Selective oxidation and oxidative dehydrogenation of alkanes New industrial developments based on catalytic oxidation reactions Bio photo and electro catalytic oxidation Oxidation by other agents than dioxygen Bifunctional metal on metal oxide catalysts for selective oxidation This book provides a valuable set of data on selective oxidation reactions which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field *Selective Oxidation by Heterogeneous Catalysis* Gabriele Centi, Fabrizio Cavani, Ferruccio Trifirò, 2012-12-06 Selective Oxidation by Heterogeneous Catalysis covers one of the major areas of industrial petrochemical production outlining open questions and new opportunities It gives keys for the interpretation and analysis of data and design of new catalysts and reactions and provides guidelines for future research A distinctive feature of this book is the use of concept by example Rather than reporting an overview of the literature results the authors have selected some representative examples the in depth analysis of which makes it possible to clarify the fundamental but new concepts necessary for a better understanding of the new opportunities in this field and the design of new catalysts or catalytic reactions Attention is given not only to the catalyst itself but also to the use of the catalyst inside the process thus evidencing the relationship between catalyst design and engineering aspects of the process This book provides suggestions for new innovative directions of research and indications on how to reconsider the field of selective oxidation from different perspectives outlining that is not a mature field of research but that new important breakthroughs can be derived from fundamental and applied research Suggestions are offered on how to use less conventional approaches in terms of both catalyst design and analysis of the data New Developments and Application in Chemical Reaction Engineering Hyun-Ku Rhee, In-Sik Nam, Jong Moon Park, 2006-05-10 This Proceedings of APCRE 05 contains the articles that were presented at the 4th Asia Pacific Chemical Reaction Engineering Symposium APCRE 05 held at Gyeongju Korea between June 12 and June 15 2005 with a theme of New Opportunities of Chemical Reaction Engineering in Asia Pacific Region Following the tradition of APCRE Symposia and ISCRE the scientific program encompassed a wide spectrum of topics including not only the traditional areas but also the emerging fields of chemical reaction engineering into which the chemical reaction engineers have successfully spearheaded and made significant contributions in recent years In addition to the 190 papers being accepted six plenary lectures and 11 invited lectures are placed in two separate chapters in the front Provides an overview of new developments and application in chemical reaction engineering Topics include traditional and emerging fields Papers reviewed by experts in the field *Recent Advances and New Horizons in Zeolite Science and Technology* H. Chon, S.I. Woo, S.-E. Park, 1996-07-08 This volume was conceived as a handbook for the Pre Conference Summer School on Zeolites held in Taejeon Korea The 11th IZC Summer School was organized to acquaint those already actively working in zeolite science and technology with the latest developments and to develop new prospects of zeolite science and technology

for the 21st century The aim of this volume is to give an extensive review and analysis of the important new findings of the last 10 years on the synthesis characterization and applications of zeolite materials as well as the prediction of new R D directions for the next decade **Advances in Chemical Conversions for Mitigating Carbon Dioxide** T. Inui,M. Anpo,K. Izui,S. Yanagida,T. Yamaguchi,1998-03-12 Global environmental problems especially global warming caused by the accelerative accumulation of carbon dioxide in the atmosphere are of great importance for humans The world s population is now approaching 6 billion and is still increasing Developments in communication systems and transportation tools have made the circulation of information technologies and materials easier which results in rapid economic growth particularly in the East and Southeastern Asian countries Increased affluence leads to an increased consumption of fossil fuels Inevitably this leads to an increase in carbon dioxide emission and environmentally hazardous materials which in turn precipitates climatic changes on a global scale Recent studies showed that the increase in carbon dioxide emission for last year was the highest in the past seven years and the total amount of carbon dioxide emission from all over the world reached 6 5 billion tons Furthermore one cannot overlook the report which appeared recently in Nature that the floor area of the iceberg in the South Pole has already decreased by 25% in the past five decades Over 260 scientists and engineers from 21 countries who had a strong interest and wished to contribute to solve the carbon dioxide problem attended this conference The papers presented in this volume cover most of the possibilities of the chemical conversion of carbon dioxide *Catalysis* James J Spivey,Sanjay K Agarwal,2007-10-31 There is an increasing challenge for chemical industry and research institutions to find cost efficient and environmentally sound methods of converting natural resources into fuels chemicals and energy Catalysts are essential to these processes and the Catalysis Specialist Periodical Report series serves to highlight major developments in this area This series provides systematic and detailed reviews of topics of interest to scientists and engineers in the catalysis field The coverage includes all major areas of heterogeneous and homogeneous catalysis and also specific applications of catalysis such as NO_x control kinetics and experimental techniques such as microcalorimetry Each chapter is compiled by recognised experts within their specialist fields and provides a summary of the current literature This series will be of interest to all those in academia and industry who need an up to date critical analysis and summary of catalysis research and applications Catalysis will be of interest to anyone working in academia and industry that needs an up to date critical analysis and summary of catalysis research and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading experts in their specialist fields this series is designed to help the chemistry community keep current with the latest developments in their field Each volume in the series is published either annually or biennially and is a superb reference point for researchers www.rsc.org/spr

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