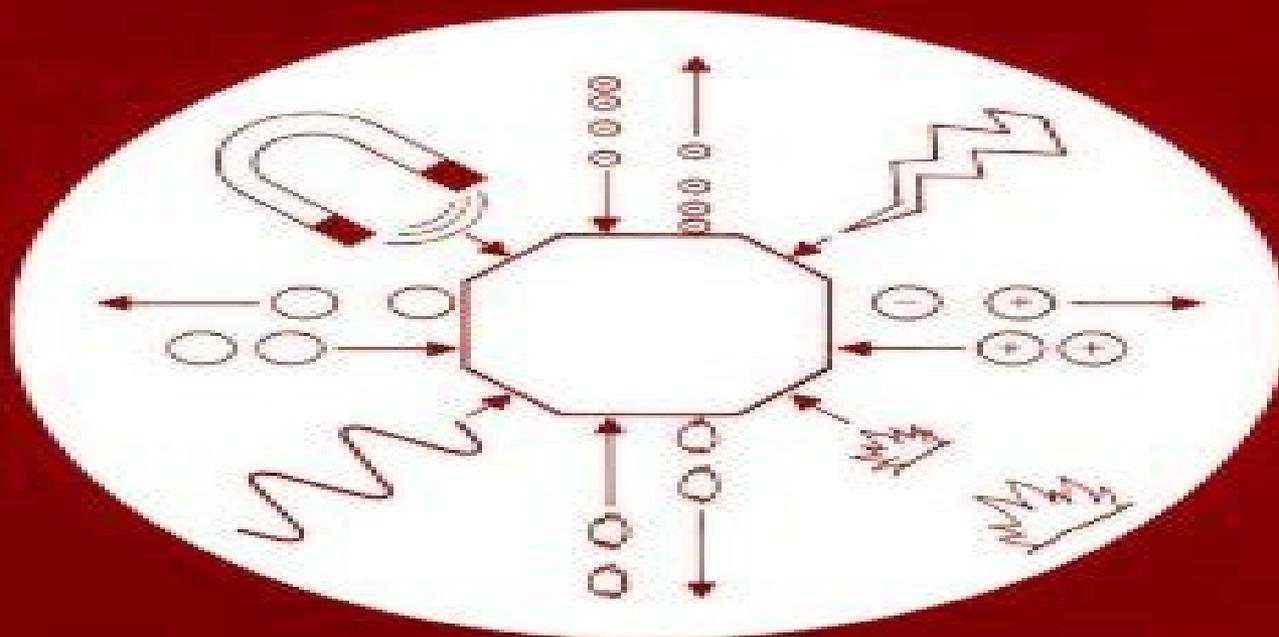


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**NEW DEVELOPMENTS IN
SELECTIVE OXIDATION BY
HETEROGENEOUS CATALYSIS**

P. Ruiz and B. Delmon
(editors)

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New Developments In Selective Oxidation By Heterogeneous Catalysis

**M. de Pontes,R.L. Espinoza,C.P.
Nicolaides,J.H. Scholtz,M.S. Scurrall**

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 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 in Selective Oxidation** G. Centi, F. Trifirò, 1990-04-26 Approx 890 pages *New Developments in Selective Oxidation* Gabriele Centi, Ferruccio Trifirò, 1990 This volume describes state of the art advances in fundamental and applied aspects of partial selective oxidation in homogeneous and heterogeneous catalysis including electrochemical and photo oxidation Comprising 93 papers 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 serve as a springboard for new ideas and encourage innovation and creativity Being an up to date reference source for all those studying in this field this book should be on the bookshelf of all applied and academic research centres involved in the functionalization of molecules by selective oxidation **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 Taejon 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 *New Developments in Selective Oxidation II*, 1994 **Catalysts in Petroleum Refining and Petrochemical Industries 1995** M. Absi-Halabi, J. Beshara, H. Qabazard, Anthony Stanislaus, 1996-01-15 Catalysis plays an increasingly critical role in modern petroleum refining and basic petrochemical industries as market demands for and specifications of petroleum and petrochemical products are continuously changing As we enter the 21st century new challenges for catalysis science and technology are anticipated in almost every field Particularly better utilization of petroleum resources and demands for cleaner transportation fuels are major items It was against this background that the 2nd International Conference on Catalysts in Petroleum Refining and Petrochemical Industries was organized The conference was attended by around 300 specialists in the catalysis field from both academia and industry from over 30 countries It provided a forum for the exchange of ideas between scientists and engineers from the region with their counterparts from industrialized countries The papers from the conference which were carefully selected from around 100 submissions were refereed in terms of scientific and technical content and format in accordance with internationally accepted standards They comprise a mix of reviews providing an overview of selected areas original fundamental research results and industrial experiences *Catalyst Deactivation 1994* G.F. Froment, B. Delmon, 1994-09-08 Catalyst Deactivation 1994 was an expansion of earlier highly successful symposia The objective of the symposium was to promote a scientific approach of the phenomenon of catalyst deactivation which will contribute to the development of catalysts which are less subject to structural transformations and more resistant to poisons and coke formation These aspects are dealt with in 12

plenary lectures 48 oral presentations and 35 poster papers which were critically selected from an impressive response from some 30 countries Both fundamental and applied aspects were covered The deactivation of catalysts in important industrial processes like fluid bed catalytic cracking hydrotreatment hydrodesulfurization catalytic reforming hydrodenitrogenation steam reforming hydrodemetallization hydrocracking Fischer Tropsch synthesis propane dehydrogenation phthalic anhydride synthesis received considerable attention Mechanisms of poisoning sintering and coking were further investigated and modelled and new experimental techniques for the characterization and the quantification of deactivation were also introduced

Characterization and Chemical Modification of the Silica Surface E.F. Vansant, P. Van Der Voort, K.C. Vrancken, 1995-04-25 Oxide surface materials are widely used in many applications in particular where chemically modified oxide surfaces are involved Indeed in disciplines such as separation catalysis bioengineering electronics ceramics etc modified oxide surfaces are very important In all cases the knowledge of their chemical and surface characteristics is of great importance for the understanding and eventual improvement of their performances This book reviews the latest techniques and procedures in the characterization and chemical modification of the silica surface presenting a unified and state of the art approach to the relevant analysis techniques and modification procedures covering 1000 references integrated into one clear concept

Natural Gas Conversion IV M. de Pontes, R.L. Espinoza, C.P. Nicolaidis, J.H. Scholtz, M.S. Scurrall, 1997-03-14 The Fourth International Natural Gas Conversion Symposium was attended by 180 delegates from 25 countries Representation was evenly balanced between industry and academia The opening address was delivered by Mr Roy Pithey Chairman of South Africa's Central Energy Fund who dealt with the importance and utilisation of natural gas in sub Saharan Africa Plenary lectures were presented by Professors E Iglesia Catalyst design and selectivity for F T synthesis and E E Wolf Oxidative Coupling Methane A number of keynote addresses were delivered Dr T Fleisch Amoco described the use of DME as a transport fuel and the work which has been carried out in this area in collaboration with Haldor Topsoe Professor L D Schmidt Univ of Minnesota explained his work on the direct conversion of methane at high velocities Dr B Jager SASTECH R methanol conversion to higher alcohols CO H₂ conversion in a commercially viable route to higher alcohols and CO H₂ conversion to high quality gasoline It is obvious that such developments would fit into the energy cycle which has moved from wood to coal to oil to gas and will most probably move to hydrogen

11th International Congress on Catalysis, 40th Anniversary Joe W. Hightower, 1996

Oscillating Heterogeneous Catalytic Systems Marina M. Slin'ko, N.I. Jaeger, 1994-08-26 A review of the mathematical concepts methods and tools needed for the analysis and the interpretation of complex phenomena associated with oscillating heterogeneous catalytic systems which in turn have much in common with dynamical systems studied in related fields such as physics and biology

New Developments in Selective Oxidation B. Delmon, 1987

Semiconductor Nanoclusters - Physical, Chemical, and Catalytic Aspects P.V. Kamat, D. Meisel, 1997 During the past decade there has been a phenomenal growth in the basic research of semiconductor

nanoclusters and other nanomaterials As the field has evolved the emphasis has shifted from basic theoretical description to field utilization of nanostructure based devices The topics of the various chapters presented in this book written by leaders in the field highlight the salient features of nanocrystalline semiconductor materials Features of this book Provides synthetic strategies to generate ultrasmall particles films and wires Describes the characterization methodologies of a large number of nanomaterials from the molecular level to the long range crystallographic ordering Develops theoretical descriptions of present day quantum confinement effects in various materials including metallic particles III V semiconductors and porous silicon Explores the fate of photoinduced charge carriers in these materials and the phenomena of charge transfer across interfaces Covers the utilization of these newly discovered effects in analytical chemistry organic synthesis environmental remediation and electrochemistry The aim of the book is to present the necessary background material for advanced undergraduate students in the field of physical chemistry and materials science and provide a reference book for the experts in this area

Science and Technology in Catalysis, 1994 Yūsuke Izumi, Hiromichi Arai, Masakazu Iwamoto, 1995 This volume comprises the proceedings of the TOCAT 2 Conference The papers are grouped in three categories plenary lectures oral presentations and papers presented in the industrial poster sessions

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