

Strong Acids



Hydrochloric
Acid



Nitric
Acid



Sulfuric
Acid



Hydrobromic
Acid



Hydroiodic
Acid



Perchloric
Acid



Chloric
Acid

Weak Acids



Oxalic
Acid



Sulfurous
Acid



Phosphoric
Acid



Nitrous
Acid



Benzoic
Acid



Acetic
Acid



Formic
Acid

Solid Acids And Bases

**Fabrizio Cavani, Gabriele Centi, Siglinda
Perathoner, Ferruccio Trifirò**

Solid Acids And Bases:

New Solid Acids and Bases K. Tanabe, M. Misono, H. Hattori, Y. Ono, 1990-02-02 This volume summarises and reviews the enormous progress made over the past two decades in solid acids and bases with emphasis on fundamental aspects and chemical principles In recent years many new kinds of solid acids and bases have been found and synthesized The surface properties in particular acidic and basic properties and the structures of the new solids have been clarified by newly developed measurement methods using modern instruments and techniques The characterized solid acids and bases have been applied as catalysts for diversified reactions many good correlations being obtained between the acid base properties and the catalytic activities or selectivities Recently acid base bifunctional catalysis on solid surfaces is becoming a more and more important and intriguing field of study It has been recognized that the acidic and basic properties of catalysts and catalyst supports play an important role in oxidation reduction hydrogenation hydrocracking etc The effect of the preparation method and the pretreatment conditions of solid acids and bases on the acidic and basic properties the nature of acidic and basic sites and the mechanism regarding the generation of acidity and basicity have been elucidated experimentally and theoretically On the basis of the accumulated knowledge of solid acids and bases it is now possible to design and develop highly active and selective solid acid and base catalysts for particular reactions The chemistry of solid acids and bases is now being related to and utilized in numerous areas including adsorbents sensors cosmetics fuel cells sensitized pressed papers and others The information presented in this book will therefore be of interest to a wide ranging readership *Solid Acids and Bases* Kozo Tanabe, 2012-12-02 *Solid Acids and Bases Their Catalytic Properties* reviews developments in the studies of acidic and basic properties of solids including the efficacy and special characteristics of solid acid and base catalysts This book discusses the determination of basic and acidic properties on solid surfaces and relationship between acid strength and acid amount The structure and acid base properties of mixed metal oxides and correlation between acid base properties and catalytic activity and selectivity are also deliberated This publication is useful to professional chemists and graduate students in the fields of organic inorganic and physical chemistry petroleum chemistry and catalysis including readers interested in the acidic and basic properties on solid surfaces **New Solid Acids and Bases** Kōzō Tanabe, 1989 **New Solid Acids and Bases**, 1989 **Catalysis by Solid Acids and Bases** John A. Horsley, 1993 *Acidity and Basicity of Solids* Jacques P. Fraissard, Leonidas Petrakis, North Atlantic Treaty Organization. Scientific Affairs Division, 1994 Historically technological developments that have made use of the acidity basicity of solids have often preceded an understanding of the phenomena involved This of course is very expensive and a far less efficient process than research based on a fundamental understanding of the science For the last 50 years therefore a vast amount of research has been devoted to the subject the rewards in terms of technological advantage were seen to be high *Containment of High-Level Radioactive and Hazardous Solid Wastes with Clay Barriers* Raymond N. Yong, Roland Pusch, Masashi Nakano, 2009-10-16 One of the principal objections to or

problems with the use of nuclear fuel is that a proven method for safe disposal of spent nuclear fuel has yet to be established. The central focus of most schemes underway to dispose of these high level radioactive wastes relies on clay based buffers and barriers to isolate spent fuel canisters in boreholes deep underground in specially constructed tunnels and caverns. Current thought on the principal methods of containment of high level radioactive wastes is presented in this book. The authors proceed to discuss the processes and mechanisms involved in the development of long term properties and performance of clay based buffers and backfills. The procedures and methodologies used to undertake predictions and performance assessments of these materials are also examined. This is an invaluable reference for professionals, researchers, academics and regulators engaged in the development of radioactive waste sites.

Manual of Mineral Material Science

Ling Wang, 2026-01-30. Mineral material science is a new emerging comprehensive interdisciplinary discipline born in China. Over the past 40 years Chinese scientific and technological workers have carried out a great deal of research work which has had a deeper understanding of this discipline. This book discusses the fundamentals and practical applications of mineral material science as well as future outlook of mineral functional materials. It will be a one stop manual of mineral material science and will be useful to researchers, scholars, practitioners and students in the field of mineral material science.

Sustainable Industrial Chemistry Fabrizio Cavani, Gabriele Centi, Siglinda Perathoner, Ferruccio Trifirò, 2009-09-22. In recent years the need for sustainable process design and alternative reaction routes to reduce industry's impact on the environment has gained vital importance. The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible. Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up to date insight into the main concerns e.g. the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes, microreactor and integrated reaction separation technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization.

Metal Oxides in

Heterogeneous Catalysis Jacques C. Vedral, 2018-01-11. Metal Oxides in Heterogeneous Catalysis is an overview of the past, present and future of heterogeneous catalysis using metal oxides catalysts. The book presents the historical, theoretical and practical aspects of metal oxide based heterogeneous catalysis. Metal Oxides in Heterogeneous Catalysis deals with fundamental information on heterogeneous catalysis including reaction mechanisms and kinetics approaches. There is also a focus on the classification of metal oxides used as catalysts, preparation methods and touches on zeolites, mesoporous materials and Metal organic frameworks (MOFs) in catalysis. It will touch on acid or base type reactions, selective partial and total oxidation reactions and enzymatic type reactions. The book also touches heavily on the biomass applications of metal oxide catalysts and environmentally related depollution reactions such as COVs elimination, DeNOx and DeSOx. Finally, the book also deals with future trends and prospects in metal oxide based heterogeneous catalysis. Presents case studies in each

chapter that provide a focus on the industrial applications Includes fundamentals key theories and practical applications of metal oxide based heterogeneous catalysis in one comprehensive resource Edited and contributed by leading experts who provide perspectives on synthesis characterization and applications

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