

# Solid State Reactions

- Several possible cases: solid/solid reaction; gas/solid reactions; solid decomposition reaction; etc.
- characteristics:
- Difficult to reach uniformity (compared to liquid, gas phases)
- Slow reaction rate, require high temperature and long time
- Reaction starts from surface, often left unreacted cores
- May form un-wanted intermediate phases (solid/solid system)
- Need grinding after reaction to get fine particles
- May introduce impurity during grinding
- Not many steps, the cost may be reasonable

# Solid State Reactions

**Fumio Toda**



## Solid State Reactions:

**Principles of Solid State Chemistry** Petr Petrovich Budnikov, Arkadii Mikhaïlovich Ginstling, 1968      Organic Solid-State Reactions Fumio Toda, 2002-04-30 Most organic reactions have long been carried out in organic solvents without concern for their real necessity reaction efficiency and pollution problems Very recently we have found that most organic reactions can be carried out in the absence of a solvent namely in the solid state In many cases the solid state reaction proceeds more easily and efficiently and even more selectively than solution reaction This shows that molecules move easily and selectively in the solid state This finding changed the classical idea which suggests molecules do not move and reactions do not occur in the solid state and opened up a new research field for the study molecular dynamics in the solid state The organic solid state reactions have many possibilities to be developed For example enantioselective reactions can easily be accomplished by carrying out the reaction in an inclusion complex crystal with an optically active host compound Catalytic reactions also proceed in the solid state Moreover the solid state reactions are more economical and ecologically sound In the future pollution free synthetic procedures in the solid state will become increasingly important not only in chemical industries but also in university laboratories      *Solid State Reactions* Hermann Schmalzried, 1974      **Principles of Solid State Chemistry** P. P.. Budnikov, A. M.. Ginstling, 1962      **Reactions in the Solid State** Michael E. Brown, D. Dollimore, A.K. Galwey, 1980-01-01 The whole of Volume 22 is devoted to the kinetics and mechanisms of the decomposition and interaction of inorganic solids extended to include metal carboxylates After an introductory chapter on the characteristic features of reactions in the solid phase experimental methods of investigation of solid reactions and the measurement of reaction rates are reviewed in Chapter 2 and the theory of solid state kinetics in Chapter 3 The reactions of single substances loosely grouped on the basis of a common anion since it is this constituent which most frequently undergoes breakdown are discussed in Chapter 4 the sequence being effectively that of increasing anion complexity Chapter 5 covers reactions between solids and includes catalytic processes where one solid component remains unchanged double compound formation and rate processes involving the interactions of more than three crystalline phases The final chapter summarises the general conclusions drawn in the text of Chapter 2 5      **Chemical Kinetics and Reaction Dynamics** Santosh K. Upadhyay, 2007-04-29 Chemical Kinetics and Reaction Dynamics brings together the major facts and theories relating to the rates with which chemical reactions occur from both the macroscopic and microscopic point of view This book helps the reader achieve a thorough understanding of the principles of chemical kinetics and includes Detailed stereochemical discussions of reaction steps Classical theory based calculations of state to state rate constants A collection of matters on kinetics of various special reactions such as micellar catalysis phase transfer catalysis inhibition processes oscillatory reactions solid state reactions and polymerization reactions at a single source The growth of the chemical industry greatly depends on the application of chemical kinetics catalysts and catalytic processes This volume is therefore an invaluable

resource for all academics industrial researchers and students interested in kinetics molecular reaction dynamics and the mechanisms of chemical reactions      *Preparative Methods in Solid State Chemistry* Paul Hagenmuller, 2012-12-02

*Preparative Methods in Solid State Chemistry* deals with the preparative methods used in solid state chemistry and highlights the importance of the chemist's role in preparing materials of desired quality as well as obtaining materials according to the requirements of the user such as the physicist Topics covered range from high pressure techniques in preparative chemistry to methods of growing single crystals of high melting point oxides This book is comprised of 14 chapters and begins with an overview of possibilities for high pressure synthesis as well as the methods used to obtain high pressures including transmission by gaseous or liquid fluids or in the solid state The method of shock waves is then considered both from the point of view of thermodynamics and thermoelasticity along with the possibility of using superpressures for evidently revolutionary applications Subsequent chapters focus on the synthesis of single crystals of refractory oxides either at high temperatures essentially liquid solid transformations or at lower temperatures in the presence of a solvent or a chemical reagent The production of single crystals by electrolytic reduction in molten salts is also described Numerous examples of vapor transport reactions in a temperature gradient are presented This monograph should be of interest to chemists and students of solid state chemistry      **Principles of Solid State Chemistry** P. P.

Budnikov, 1948\*      **Organic Solid-State Reactions** Fumio Toda, 2002-04-30      *Principles of Solid State Chemistry - Reactions in Solids* (translated from the Russian). PP. Budnikov, 1968      **Solid-State Properties of Pharmaceutical**

**Materials** Stephen R. Byrn, George Zografi, Xiaoming (Sean) Chen, 2017-07-17 Presents a detailed discussion of important solid state properties methods and applications of solid state analysis Illustrates the various phases or forms that solids can assume and discusses various issues related to the relative stability of solid forms and tendencies to undergo transformation Covers key methods of solid state analysis including X ray powder diffraction thermal analysis microscopy spectroscopy and solid state NMR Reviews critical physical attributes of pharmaceutical materials mainly related to drug substances including particle size surface area hygroscopicity mechanical properties solubility and physical and chemical stability Showcases the application of solid state material science in rational selection of drug solid forms analysis of various solid forms within drug substance and the drug product and pharmaceutical product development Introduces appropriate manufacturing and control procedures using Quality by Design and other strategies that lead to safe and effective products with a minimum of resources and time      **Organic Solid-State Chemistry—2** M. D. Cohen, 2013-10-22 *Organic Solid State Chemistry 2* presents the

solid state reactions in molecular crystals This book discusses the correlations of the chemical structures of products from organic solid state reactions with the molecular packing in the reactant crystal structures Organized into 10 chapters this book begins with an overview of the molecular behavior after the chemical transition state This text then examines the electron paramagnetic resonance methods which offer many features in connection with the study of chemical reactions in

which a paramagnetic species is a product or a reactant Other chapters consider the interpretation of radiationless transitions thermal reactions and photochemical decompositions and rearrangements The final chapter deals with the experimental results concerning electron and hole production in anthracene crystals with emphasis on the relevance of these studies to the fundamental question of the nature of the excess electron states in these low mobility crystals This book is a valuable resource for solid state chemists photochemists spectroscopists scientists and research workers     Reactions and Mechanisms in Thermal Analysis of Advanced Materials Atul Tiwari,Baldev Raj,2015-07-29 Strong bonds form stronger materials For this reason the investigation on thermal degradation of materials is a significantly important area in research and development activities The analysis of thermal stability can be used to assess the behavior of materials in the aggressive environmental conditions which in turn provides valuable information about the service life span of the materiel Unlike other books published so far that have focused on either the fundamentals of thermal analysis or the degradation pattern of the materials this book is specifically on the mechanism of degradation of materials The mechanism of rapturing of chemical bonds as a result of exposure to high temperature environment is difficult to study and resulting mechanistic pathway hard to establish Limited information is available on this subject in the published literatures and difficult to excavate Chapters in this book are contributed by the experts working on thermal degradation and analysis of the wide variety of advanced and traditional materials Each chapter discusses the material its possible application behavior of chemical entities when exposed to high temperature environment and mode and the mechanistic route of its decomposition Such information is crucial while selecting the chemical ingredients during the synthesis or development of new materials technology     Internal solid state reactions Hermann Schmalzried,Monika Backhaus-Ricoult,1993     The Inorganic Chemistry of Materials Paul J. van der Put,2013-06-29 P J van der Put offers students an original introduction to materials chemistry that integrates the full range of inorganic chemistry Technologists who need specific chemical facts to manipulate matter will also find this work invaluable as an easy to use reference The text includes practical subjects of immediate use for materials such as bonding morphogenesis and design that more orthodox materials science volumes often leave out     Principles of Chemical Kinetics James E. House,2007-08-30 James House s revised Principles of Chemical Kinetics provides a clear and logical description of chemical kinetics in a manner unlike any other book of its kind Clearly written with detailed derivations the text allows students to move rapidly from theoretical concepts of rates of reaction to concrete applications Unlike other texts House presents a balanced treatment of kinetic reactions in gas solution and solid states The entire text has been revised and includes many new sections and an additional chapter on applications of kinetics The topics covered include quantitative relationships between molecular structure and chemical activity organic inorganic chemistry biochemical kinetics surface kinetics and reaction mechanisms Chapters also include new problems with answers to selected questions to test the reader s understanding of each area A solutions manual with answers to all questions is available for instructors A useful text for

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K. Tyagi, Raghumani S. Ningthoujam, 2021-08-17 This book presents state of the art coverage of synthesis of advanced functional materials. Unconventional synthetic routes play an important role in the synthesis of advanced materials as many new materials are metastable and cannot be synthesized by conventional methods. This book presents various synthesis methods such as conventional solid state method, combustion method, a range of soft chemical methods, template synthesis, molecular precursor method, microwave synthesis, sono chemical method, and high pressure synthesis. It provides a comprehensive overview of synthesis methods and covers a variety of materials including ceramics, films, glass, carbon based, and metallic materials. Many techniques for processing and surface functionalization are also discussed. Several engineering aspects of materials synthesis are also included. The contents of this book are useful for researchers and professionals working in the areas of materials and chemistry.

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