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# SOFT MECHANOCHEMICAL SYNTHESIS

A GUIDE FOR NEW CHEMICAL TECHNOLOGIES

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# Soft Mechanochemical Synthesis A Basis For New Chemical Technologies

**Olena Fesenko, Leonid Yatsenko**



## **Soft Mechanochemical Synthesis A Basis For New Chemical Technologies:**

*Soft Mechanochemical Synthesis* G.V. Avvakumov, Mamoru Senna, N. V. Kosova, 2007-05-08 Mechanical methods of the activation of chemical processes are currently widely used for the synthesis of various compounds The present monograph deals with the development of a novel approach to mechanochemical synthesis based on reactions of solid acids bases hydrated compounds crystal hydrates basic and acidic salts This method has been called soft mechanochemical synthesis The monograph includes the papers published by the present authors They describe the results of their investigations in the last two decades New theoretical and experimental data on kinetics and mechanism of soft mechanochemical reactions in the mixtures of compounds mentioned above to give complex oxide compounds are presented The description of new high energetic and high efficient mills providing effective occurrence of these reactions is delivered The possibilities of applying soft mechanochemical synthesis for materials used in catalysts material science electronics etc are discussed The advantages of the method proposed in comparison with other methods are demonstrated The monograph is designed for researchers engineers and technicians engaged in chemical and ceramic industry for scientists and students specialized in the area of development and application of new materials

*Soft Mechanochemical Synthesis* G.V. Avvakumov, Mamoru Senna, N. V. Kosova, 2013-03-26 Mechanical methods of the activation of chemical processes are currently widely used for the synthesis of various compounds The present monograph deals with the development of a novel approach to mechanochemical synthesis based on reactions of solid acids bases hydrated compounds crystal hydrates basic and acidic salts This method has been called soft mechanochemical synthesis The monograph includes the papers published by the present authors They describe the results of their investigations in the last two decades New theoretical and experimental data on kinetics and mechanism of soft mechanochemical reactions in the mixtures of compounds mentioned above to give complex oxide compounds are presented The description of new high energetic and high efficient mills providing effective occurrence of these reactions is delivered The possibilities of applying soft mechanochemical synthesis for materials used in catalysts material science electronics etc are discussed The advantages of the method proposed in comparison with other methods are demonstrated The monograph is designed for researchers engineers and technicians engaged in chemical and ceramic industry for scientists and students specialized in the area of development and application of new materials

*Mechanochemical Synthesis of Composite Materials* Zulkhair A. Mansurov, Nina N. Mofa, Tlek A. Ketegenov, Bakhtiyar S. Sadykov, 2022-08-01 Mechanochemical treatment is one of the promising directions of the chemical and technological processes of obtaining a new substance as a result of the transformation of mechanical energy into the chemical physical processes of system restructuring The peculiarity of the state of solid matter because of intense mechanical action is determined not only by its destruction i.e. dispersing and obtaining a powder material with a high and active surface but also by the accumulation of defects in the entire volume of particles which increases their reactivity This book presents the results of many years of

research on the mechanochemical synthesis of composites consisting of inorganic and organic components obtained by the scientific team at the Institute of Combustion Problems Kazakhstan It begins with the general ideas about the mechanochemical process and the phenomena and further discusses the main provisions of the structural rearrangement and modification of the surface of dispersible particles

**Biomass Fractionation Technologies for a Lignocellulosic Feedstock Based Biorefinery** S.I. Mussatto, 2016-02-18 Biomass Fractionation Technologies for a Lignocellulosic Feedstock based Biorefinery reviews the extensive research and tremendous scientific and technological developments that have occurred in the area of biorefining including industrial processes and product development using green technologies often referred as white biotechnology As there is a huge need for new design concepts for modern biorefineries as an alternative and amendment to industrial crude oil and gas refineries this book presents the most important topics related to biomass fractionation including advances challenges and perspectives all with references to current literature for further study Presented in 26 chapters by international field specialists each chapter consists of review text that comprises the most recent advances challenges and perspectives for each fractionation technique The book is an indispensable reference for all professionals students and workers involved in biomass biorefinery assisting them in establishing efficient and economically viable process technologies for biomass fractionation Provides information on the most advanced and innovative pretreatment processes and technologies for biomass Reviews numerous valuable products from lignocellulose Discusses integration of processes for complete biomass conversion with minimum waste generation Identifies the research gaps in scale up Presents an indispensable reference for all professionals students and workers involved in biomass biorefinery assisting them in establishing efficient and economically viable process technologies for biomass fractionation

*Mechanochemistry in Nanoscience and Minerals Engineering* Peter Balaz, 2008-10-20 Mechanochemistry as a branch of solid state chemistry enquires into processes which proceed in solids due to the application of mechanical energy This provides a thorough up to date overview of mechanochemistry of solids and minerals Applications of mechanochemistry in nanoscience with special impact on nanogeoscience are described Selected advanced identification methods most frequently applied in nanoscience are described as well as the advantage of mechanochemical approach in minerals engineering Examples of industrial applications are given Mechanochemical technology is being applied in many industrial fields powder metallurgy synthesis of nanometals alloys and nanocompounds building industry activation of cements chemical industry solid waste treatment catalyst synthesis coal ashes utilization minerals engineering ore enrichment enhancement of processes of extractive metallurgy agriculture industry solubility increase of fertilizers and pharmaceutical industry improvement of solubility and bioavailability of drugs This reference serves as an introduction to newcomers to mechanochemistry and encourages more experienced researchers to broaden their knowledge and discover novel applications in the field

Proceedings of the IV Advanced Ceramics and Applications Conference Bill Lee, Rainer

Gadow, Vojislav Mitic, 2017-01-16 This is the Proceedings of III Advanced Ceramics and Applications conference held in Belgrade Serbia in 2014 It contains 25 papers on various subjects regarding preparation characterization and application of advanced ceramic materials

**CRC Concise Encyclopedia of Nanotechnology** Boris Ildusovich Kharisov, Oxana Vasilievna Kharissova, Ubaldo Ortiz-Mendez, 2016-01-06 The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other references of this nature are measured As such it is a major resource for both skilled professionals and novices to nanotechnology The book examines the design application and utilization of devices techniques and technologies critical to research at the

**The Future of Dynamic Structural Science** Judith A.K. Howard, Hazel A. Sparkes, Paul R. Raithby, Andrei V. Churakov, 2014-07-08 This work focuses on complementary crystallographic and spectroscopic areas of dynamic structural science from papers presented at the 46th NATO sponsored course in Erice Sicily 2013 These papers cover a range of material from background concepts to more advanced material and represent a fully inter disciplinary collection of the latest ideas and results within the field They will appeal to practising or novice crystallographers both chemical and biological who wish to learn more about modern spectroscopic methods and convergent advances and hence vice versa for experimental and computational spectroscopists The chapters refer to the latest techniques software and results and each chapter is fully referenced The volume provides an excellent starting point for new comers in the emerging multi disciplinary area of time resolved science

**High-Energy Ball Milling** Małgorzata Sopicka-Lizer, 2010-05-24 Mechanochemical processing is a novel and cost effective method of producing a wide range of nanopowders It involves the use of a high energy ball mill to initiate chemical reactions and structural changes High energy ball milling Mechanochemical processing of nanopowders reviews the latest techniques in mechanochemistry and how they can be applied to the synthesis and processing of various high tech materials Part one discusses the basic science of mechanochemistry with chapters on such topics as the mechanism and kinetics of mechanochemical processes kinetic behaviour in mechanochemically induced structural and chemical transformations and materials design through mechanochemical processing Part two reviews mechanochemical treatment of different materials including synthesis of complex ceramic oxides production of intermetallic compound powders synthesis of organic compounds synthesis of metallic ceramic composite powders and activation of covalent bond based materials Part three covers mechanochemical processes in metal powder systems and other applications with coverage of topics such as plating and surface modification using ultrasonic vibrations activated powders as precursors for spark plasma sintering titanium dioxide photocatalyst synthesis by mechanochemical doping and synthesis of materials for lithium ion batteries With its distinguished editor and international team of contributors High energy ball milling Mechanochemical processing of nanopowders is a standard reference for all those involved in the production of ceramic and metallic components using sintering and other powder metallurgy techniques to produce net shape components Examines the latest techniques in mechanochemistry and how they can be applied to the

synthesis and processing of various high tech materials Discusses the basic science of mechanochemistry including kinetic behaviour processes and mechanisms and materials design through mechanochemical processing Reviews mechanochemical treatment of different materials including synthesis of ceramic oxides organic compounds and metallic ceramic composite powders

**Environmental Mechanochemistry** Matej Baláž, 2021-10-22 This book provides a comprehensive overview on mechanochemistry including its history high energy ball milling process equipment used and fundamentals behind the observed scientific phenomena It also shows that mechanochemistry is highly applicable in the field of waste treatment The text reviews 1017 studies utilizing mostly high energy ball milling for the treatment of various types of consumer technogenic and agricultural waste The text is divided into chapters based on individual waste types The book presents an Appendix compiling all studies arranged according to the application that the recycled waste is meant for In this way readers from both academia and companies interested either in the treatment of a particular waste or particular application might easily locate sections of interest

**Frontiers in Chemistry: Editor's Pick 2022** Frontiers in Chemistry Editorial Office, 2022-09-06 We are pleased to introduce the 2022 Frontiers in Chemistry Editor's Pick collection showcasing articles stimulating interest in the field carefully selected in collaboration with our Field Chief Editor Prof Steven Suib of University of Connecticut With this ebook we aim to highlight and disseminate important findings across the domains of chemistry research capturing the multidisciplinary and inclusive approach our journal takes towards advancing the field of chemistry and supporting new technological breakthroughs that help humanity live healthier lives on a healthy planet 2021 was a year which saw our highest journal impact factor yet international community growth and a record breaking number of articles to choose from We wish to elevate the contributions made by authors encourage readership and innovation through our open access

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**Ceramic nanocomposites** K. Wieczorek-Ciurowa, 2013-07-31 The chapter discusses several variants of mechanosyntheses for composite powder formation of metal alloy matrices with ceramic particles The necessity of following progress in mechanochemical processes using different analytical methods is shown Based on the results of experimental studies on Cu Al Al<sub>2</sub>O<sub>3</sub> and Ni Al Al<sub>2</sub>O<sub>3</sub> nanocomposite powder formation through mechanochemical synthesis the method of transforming combusive processes to progressive ones by applying hydroxosalts instead of metal oxides as precursors of composites is described

**Dekker Encyclopedia of Nanoscience and Nanotechnology** James A. Schwarz, Cristian I. Contescu, Karol Putyera, 2004

**Nanomaterials and Nanocomposites, Nanostructure Surfaces, and Their Applications** Olena Fesenko, Leonid Yatsenko, 2023-03-27 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions presented at the 8th International Science and Practice Conference Nanotechnology and Nanomaterials NANO2020 which was held on August 25-28 2021 at Lviv Polytechnic National University and was jointly organized by the Institute of Physics the National Academy of Sciences of Ukraine Lviv

Polytechnic National University University of Tartu Estonia University of Turin Italy Pierre and Marie Curie University France European Profiles S A Greece Representation of the Polish Academy of Sciences in Kyiv University of Angers France Ruprecht Karl University of Heidelberg Germany Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties behavior and synthesis This book s companion volume also addresses topics such as nano optics energy storage and biomedical applications

**Cadmium based II-VI Semiconducting Nanomaterials** Abdul Majid,Maryam Bibi,2017-11-10 This book provides technological perspective and comprehensive overview on the research efforts related to II VI group cadmium based semiconducting nanomaterials It describes state of the art information on different synthesis methods for preparation of these materials using a variety of experimental strategies The effects of synthesis roots on structural thermal mechanical lattice vibronic electronic optical and carrier transport characteristics of these nano structures are systematically analyzed A wide target readership comprising of students researchers scholars scientists technicians academicians industrialists can benefit from this book as cadmium based semiconductors possess significant research and industrial interest thanks to their innovative properties

**Enhancing Extraction Processes in the Food Industry** Nikolai Lebovka,Eugene Vorobiev,Farid Chemat,2016-04-19 Extraction is an important operation in food engineering enabling the recovery of valuable soluble components from raw materials With increasing energy costs and environmental concerns industry specialists are looking for improved techniques requiring less solvents and energy consumption Enhancing Extraction Processes in the Food Industry is a

**New Trends in Intercalation Compounds for Energy Storage** Christian Julien,J.P. Pereira-Ramos,A. Momchilov,2012-12-06 Recent advances in electrochemistry and materials science have opened the way to the evolution of entirely new types of energy storage systems rechargeable lithium ion batteries electrochroms hydrogen containers etc all of which have greatly improved electrical performance and other desirable characteristics This book encompasses all the disciplines linked in the progress from fundamentals to applications from description and modelling of different materials to technological use from general diagnostics to methods related to technological control and operation of intercalation compounds Designing devices with higher specific energy and power will require a more profound understanding of material properties and performance This book covers the status of materials and advanced activities based on the development of new substances for energy storage

Proceedings of the RILEM Spring Convention and Conference 2024 Liberato Ferrara,Giovanni Muciaccia,Niki Trochoutsou,2024-10-31 This book gathers peer reviewed contributions presented at the RILEM Spring Convention and Conference held in Milan Italy on April 7 12 2024 The theme of the Conference was Advanced construction materials and processes for a carbon neutral society which was aimed at discussing advanced construction eco friendly materials and processes for new and existing structures towards a carbon neutral society The volume covers the current and emerging approaches that lead to an optimized design and maintenance of constructions and systems It includes

the development of materials and structural service life models and life cycle design in order to maximise longevity and level of service while minimising the environmental impact of constructions and systems It also includes the analysis and design of larger systems such as communities cities or regions aiming at reducing risk and increasing resilience The following subtopics are included advanced materials and structural concept to enhance the resilience and robustness of the built environment and communities at local and global scales risk based inspection and maintenance life cycle analysis and service models performance based design improved design strategies by integrating materials and structures

Handbook of Mechanical Nanostructuring Mahmood Aliofkhazraei, 2015-02-10 Providing in depth information on how to obtain high performance materials by controlling their nanostructures this ready reference covers both the bottom up and the top down approaches to the synthesis and processing of nanostructured materials The focus is on advanced methods of mechanical nanostructuring such as severe plastic deformation including high pressure torsion equal channel angular processing cyclic extrusion compression accumulative roll bonding and surface mechanical attrition treatment As such the contents are inherently application oriented with the methods presented able to be easily integrated into existing production processes In addition the structure property relationships and ways of influencing the nanostructure in order to exhibit a desired functionality are reviewed in detail The whole is rounded off by a look at future directions followed by an overview of applications in various fields of structural and mechanical engineering With its solutions for successful processing of complex shaped workpieces and large scale specimens with desired properties this is an indispensable tool for purposeful materials design

Apatites and their Synthetic Analogues Petr Ptáček, 2016-04-13 Apatite type minerals and their synthetic analogues are of interest of many industrial branches and scientific disciplines including material sciences chemical industry agriculture geology medicine and dentistry This book provides a basic overview of general knowledges of this topic in order to provide the comprehensive survey from a scientific and technological perspective The book is divided into 10 chapters which are devoted to the structure and properties of minerals from the supergroup of apatite experimental techniques of preparation and characterization of synthetic analogues of apatite minerals substitution in the structure of apatite as well as utilization of these materials in wide range of common and special advanced applications in industry material sciences and research Additionally the phosphate rocks their classification geological role mining and beneficiation of phosphate ore production of elemental phosphorus phosphoric acid and fertilizers are also described Although this book is meant for chemist material scientist and research engineers the individual chapters contain theoretical background historical aspects as well as examples of synthetic and analytical methods which may be also interesting for students and non expert readers as well



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