

Edited by
Satoshi Horikoshi and Nick Serpone

Microwaves in Catalysis

Methodology and Applications



Microwaves Catalysis Applications Satoshi Horikoshi

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Processing Satoshi Horikoshi, José M. Catalá-Civera, Robert F. Schiffrmann, Jun Fukushima, Tomohiko Mitani, Nick Serpone, 2024-10-24 This book adds remarkable advances in microwave chemistry methods equipment and practical examples since the first edition was published in 2018 Moreover practical examples of the use of microwave energy have been upgraded It also includes how to easily predict microwave heating using material constants In addition coupling analysis simulation with electromagnetic fields and heat transfer which greatly support researchers experiments is covered The principal aim of this book hasn't changed to introduce chemists through a tutorial approach to the use of microwaves by examining several experiments of microwave chemistry and materials processing It subsequently enables chemists to fashion their own experiments in microwave chemistry or materials processing This book helps chemists who take an interest in the use of microwave radiation to overcome difficulties to understand the nature of electromagnetism microwave engineering and thermodynamics *Microwaves in Nanoparticle Synthesis* Satoshi Horikoshi, Nick Serpone, 2013-05-03 For the first time this comprehensive handbook presents the emerging field of microwave technology for the synthesis of nanoparticles Divided into three parts fundamentals methods and applications it covers topics including microwave theory scale up microwave plasma synthesis characterization and more This offers both an important volume for academic researchers and a

resource for those in industry exploring the applications of nanoparticles in semiconductors electronics catalysis sensors and more

Agritech: Innovative Agriculture Using Microwaves and Plasmas Satoshi Horikoshi, Graham Brodie, Koichi Takaki, Nick Serpone, 2022-01-01 This book describes innovative agricultural methods using thermal and non thermal microwave or plasma energies Humans that were nomadic in the past can now stably obtain food by developing agriculture Cities were formed as a result of remarkable development Later chemicals were introduced to agriculture to stabilize the food supply further Natural products were initially used but various artificial compounds have been developed for agriculture since the 1900s To further improve crop productivity and diversification gene recombination genetic engineering using biotechnology has progressed in recent years and continues to develop further However these technologies contain pesticide residues and pose safety risks The innovative new agriculture explained in this book is based on the use of microwaves and plasma that do not rely on chemicals and genetic modification This is one of the first books focusing on the agricultural usage of microwaves In addition it is a technical book that incorporates plasma into agriculture from this perspective The book covers microwaves and plasmas which are completely different fields Thus it will be attractive to many readers who want to acquaint themselves with these alternative technologies and implement them This book will be useful to a broad audience including researchers and technicians at Universities and practitioners in industries It is made accessible to readers across different fields by including abundant figures and by limiting the use of equations to the possible extent

RF Power Semiconductor Generator Application in Heating and Energy Utilization Satoshi Horikoshi, Nick Serpone, 2020-03-26 This is a specialized book for researchers and technicians of universities and companies who are interested in the fundamentals of RF power semiconductors their applications and market penetration Looking around we see that products using vacuum tube technology are disappearing For example branch tube TVs have changed to liquid crystal TVs and fluorescent light have turned into LED The switch from vacuum tube technology to semiconductor technology has progressed remarkably At the same time high precision functionalization miniaturization and energy saving have advanced On the other hand there is a magnetron which is a vacuum tube device for generating microwaves However even this vacuum tube technology has come to be replaced by RF power semiconductor technology In the last few years the price of semiconductors has dropped sharply and its application to microwave heating and energy fields will proceed In some fields the transition from magnetron microwave oscillator to semiconductor microwave oscillator has already begun From now on this development will progress remarkably Although there are several technical books on electrical systems that explain RF power semiconductors there are no books yet based on users viewpoints on actual microwave heating and energy fields In particular none have been written about exact usage and practical cases to answer questions such as What are the advantages and disadvantages of RF power semiconductor oscillator What kind of field can be used and the difficulty of the market and application Based on these issues this book explains the RF power semiconductors from the user s point of view by covering a very wide range of fields

Photocatalysis Pierre Pichat, 2018-10-01 This book is a printed edition of the Special Issue Photocatalysis that was published in *Molecules*

Nanochemistry Ashutosh Sharma, Goldie Oza, 2023-02-24 This book encompasses the fundamental concepts of Nanochemistry that involve the self assemblage of nanostructures surface stabilization and functionalization of nanoparticles It s a review of the work of world renowned scientists and is the first of its kind that gives a detailed fundamental understanding of physical chemical and biological methods of nanoparticle synthesis There is a comprehension of different characterization techniques of nanoparticles This book for the first time explains applications of such nanochemicals in nanomedicine nanoimmunomedicine lab on a chip organ on a chip bioimplants cyborgs hydrogen storage electrochemical splitting of water and construction industries

Multifunctional Inorganic Nanomaterials for Energy Applications H.P. Nagaswarupa, Mika E.T. Sillanpää, H.C. Ananda Murthy, Ramachandra Naik, 2024-06-19 Multifunctional Inorganic Nanomaterials for Energy Applications provides deep insight into the role of multifunctional nanomaterials in the field of energy and power generation applications It mainly focuses on the synthesis fabrication design development and optimization of novel functional inorganic nanomaterials for energy storage and saving devices It also covers studies of inorganic electrode materials for supercapacitors membranes for batteries and fuel cells and materials for display systems and energy generation Features Explores computational and experimental methods of preparing inorganic nanomaterials and their multifunctional applications Includes synthesis and performance analysis of various functional nanomaterials for energy storage and saving applications Reviews current research directions and latest developments in the field of energy materials Discusses importance of computational techniques in designing novel nanomaterials Highlights importance of multifunctional applications of nanomaterials in the energy sector This book is aimed at graduate students and researchers in materials science electrical engineering and nanomaterials

High-Energy Chemistry and Processing in Liquids Yoshie Ishikawa, Takahiro Nakamura, Morihisa Saeki, Tadatake Sato, Teruki Sugiyama, Hiroyuki Wada, Tomoyuki Yatsushashi, 2022-02-05 This book focuses on chemical reactions and processing under extreme conditions how materials react with highly concentrated active species and or in a very confined high temperature and high pressure volume Those ultimate reaction environments created by a focused laser beam discharges ion bombardments or microwaves provide characteristic nano and submicron sized products and functional nanostructures The book explores the chemistry and processing of metals and non metals as well as molecules that are strongly dependent on the energy deposition processes and character of the materials Descriptions of a wide range of topics are given from the perspective of a variety of research methodologies material preparations and applications The reader is led to consider and review how a high energy source interacts with materials and what the key factors are that determine the quality and quantity of nanoproducts and nano processing

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applications in many fields such as food medicine agriculture and pollution Such applications include to treat cancer nanosensors to detect food contamination nanomaterials for food packaging nanoencapsulation to preserve nutraceuticals and nanofertilisers for advanced agriculture After an introductory chapter on property rights of nanomaterials readers will discover the applications of nanotechnology in food health environment ecotoxicology and agriculture Advances in Microwave-assisted Heterogeneous Catalysis Jianli Hu,Benjaram M. Reddy,2023-11-03 Historically the field of heterogeneous catalysis has focused on the design and optimisation of the catalytic materials However as these optimisations start to reach diminishing returns attention has turned to non conventional means for improving reaction conditions such as the use of ultrasound plasma electromagnetic heating and microwave heating Microwave assisted catalysis has been demonstrated to be useful in a wide range of applications including ammonia synthesis desulfurization and production of chemicals from biomass Advances in Microwave assisted Heterogeneous Catalysis begins with the basics of microwave heating and the role of microwaves in heterogeneous catalysis It goes on to cover the mechanisms of microwave specific reaction rate enhancement microwave assisted synthesis of porous nonporous and supported metal catalysts microwave augmented reactor technology and microwave induced catalysis The application of microwave assisted heterogeneous catalysis in various fields of energy conversion environmental remediation and bulk and specialty chemicals synthesis are also discussed making this a great reference for anyone involved in catalysis research *Energy Research Abstracts* ,1991 **Japanese Technical Periodical Index** ,1986 **Ceramic Abstracts** ,1992 Emerging Catalytic Applications of Transition Metal Oxide Nanomaterials Under Microwave and Conventional Heating Shanthakumar Sithambaram,2010 Micro-wave Promoted Chemistry Emilie Jolibois,King's College London. Department of Chemistry,2005 **Microwave catalysis** Janez Mavri,Urban Bren,Andrej Kržan,2008 **The Application of Composite Catalysts Synthesized by Microwave Plasma on Photocatalytic Degradation of Acid Blue** ,2022 **Microwave Enabled Synthesis of Carbon Based Materials with Controlled Structures** Mehulkumar Patel,2016

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