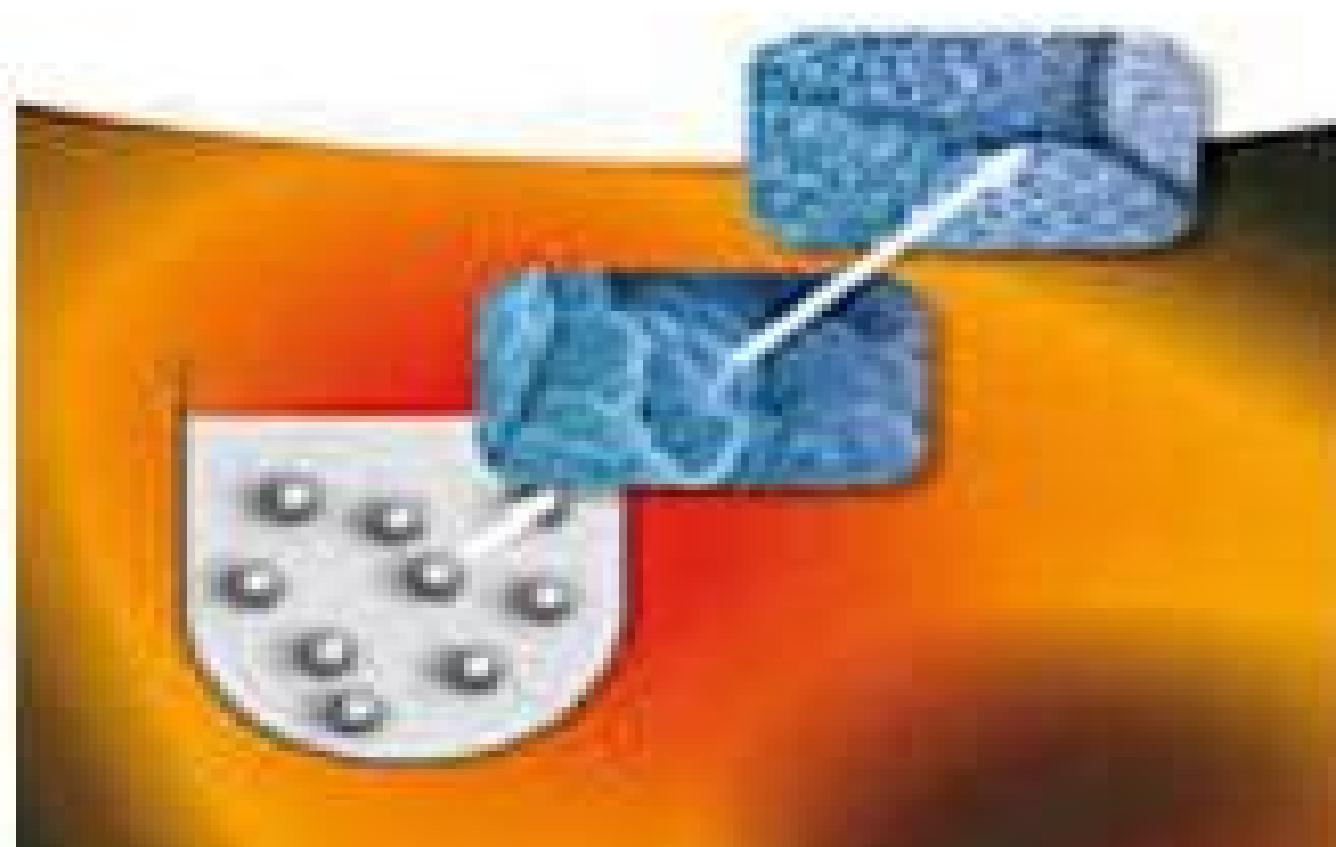


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Microwaves in Nanoparticle Synthesis

Particulargraphy and Applications



Microwaves In Nanoparticle Synthesis

Wei Pan,Jiang Hong Gong

Microwaves In Nanoparticle Synthesis

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Nanoparticle Microwave Synthesis ,2016 At the nanometer scale numerous compounds display different properties than those found in bulk material that can prove useful in areas such as medicinal chemistry Gold nanoparticles for example display promise in newly developed hyperthermia therapies for cancer treatment Currently gold nanoparticle synthesis is performed via the hot injection technique which has large variability in final particle size and a longer reaction time One underdeveloped area by which these particles could be produced is through microwave synthesis To initiate heating microwaves agitate polar molecules creating a vibration that gives off the heat energy needed Previous studies have used microwaves for gold nanoparticle synthesis however polar solvents were used that partially absorbed incident microwaves leading to partial thermal heating of the sample rather than taking full advantage of the microwave to solely heat the gold nanoparticle precursors in a non polar solution Through this project microwaves were utilized as the sole heat source and non polar solvents were used to explore the effects of microwave heating only as pertains to the precursor material Our findings show that the use of non polar solvents allows for more rapid heating as compared to polar solvents a reduction in reaction time from 10 minutes to 1 minute maximizes the efficiency of the reaction and allows for reproducibility in the size shape of the fabricated nanoparticles **Microwave Chemical and Materials Processing** Satoshi Horikoshi,Robert F.

Schiffmann,Jun Fukushima,Nick Serpone,2017-11-28 The principal aim of this book is to introduce chemists through a tutorial approach to the use of microwaves by examining several experiments of microwave chemistry and materials processing It will subsequently enable chemists to fashion their own experiments in microwave chemistry or materials processing Microwave heating has become a popular methodology in introducing thermal energy in chemical reactions and material processing in laboratory scale experiments Several research cases where microwave heating has been used in a wide range of fields have been reported including organic synthesis polymers nanomaterials biomaterials and ceramic sintering among others In most cases microwave equipment is used as a simple heat source Therefore the principal benefits of microwave radiation have seldom been taken advantage of One reason is the necessity to understand the nature of electromagnetism microwave engineering and thermodynamics However it is difficult for a chemist to appreciate these in a short time so they act as barriers for the chemist who might take an interest in the use of microwave radiation This book helps to overcome these barriers by using figures and diagrams instead of equations as much as possible **Microwave**

Chemistry Giancarlo Cravotto,Diego Carnaroglio,2017-09-25 Microwave Chemistry has changed the way to work in chemical laboratories and is an established state of the art technology to accelerate and enhance chemical processes This book not only gives an overview of the technology its historical development and theoretical background but also presents its exceptionally broad spectrum of applications Microwave Chemistry enables graduate students and scientist to learn and apply its methods successfully **Microwave Engineering of Nanomaterials** Erwann Guenin,2016-03-30

The use of microwaves has gradually democratized itself in several scientific areas and is now a common methodology in domains as different as chemistry protein digestion mining and metallurgy Materials chemistry is one field where microwave irradiation technologies are being studied In recent years development of nanotechnologies has increased **Journal of Nano Research** Vol. 84 Efthathios I. Meletis,2024-09-20 This volume collects peer reviewed articles that reflect the results of scientific research and engineering solutions in applied nanomaterials and nanotechnologies used in mechanical engineering mechatronics environmental engineering and biomedicine This edition will be interesting to specialists in many branches of production

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Japanese Journal of Applied Physics ,2006 **Advances in Microwave Chemistry** Bimal K Banik,Debasish Bandyopadhyay,2018-12-07

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heterocycles including lactams nucleosides bile acids and sterols the preparation of nanomaterials composites and absorber layer materials for thin film This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic inorganic medicinal and green chemistry Key Features Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic inorganic medicinal and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses the biological impact of products formed in reactions pharmacological features and environmental sustainability of the procedures Explains microwave induced reactions on structurally complex bile acids and sterols Stands as a valuable and unique addition to the well established book series New Directions in Organic and Biological Chemistry *High-Performance Ceramics VIII* Wei Pan,Jiang Hong Gong,2014-03-12

Selected peer reviewed papers from the Eighth International Conference on High Performance Ceramics CICC 8 November 4 7 2013 Chongqing China *International Journal of Engineering Research in Africa* Vol. 44 Akii Okonigbon Akaehomen Ibhadode,2019-08-29 The 44th volume of International Journal of Engineering Research in Africa contains articles describing the research results in the fields of materials science mechanical engineering applied and computational mechanics construction materials and technologies technological processes and materials in the petroleum production natural resources exploration and environmental engineering robotics renewable energy power engineering and control production management The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science *Inorganic Nanomedicine: Synthesis, Characterization and Application* Amir Al-Ahmed,Arun M. Isloor,M. Nasiruzzaman Shaikh,2013-04-24 Special topic volume with invited peer reviewed papers only

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