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KEY=SOLUTION - HINES HAROLD

NUCLEAR SCIENCE ABSTRACTS

ENERGY RESEARCH ABSTRACTS

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NUCLEAR SCIENCE ABSTRACTS

INDIAN JOURNAL OF CHEMISTRY

INORGANIC, BIO-INORGANIC, PHYSICAL, THEORETICAL & ANALYTICAL CHEMISTRY. SECTION A

INORGANIC CHEMISTRY OF THE TRANSITION ELEMENTS

Royal Society of Chemistry Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

PHYSICS BRIEFS

PHYSIKALISCHE BERICHTE

INDIAN SCIENCE ABSTRACTS

RUTHENIUM-CONTAINING POLYMERS

Springer Nature This book presents the synthetic methodologies as well as the properties and potential usage of various ruthenium-containing materials. Starting from the first examples of 'ruthenopolymers' reported in the 1970s to the 3D architectures now synthesized, these materials have shown their importance far beyond fundamental polymer science. As well as highlighting the remarkable properties and versatile applications, this book also addresses a key question related to the applications of such heavy-metal-containing materials from the perspective of achieving a sustainable future. This book is of interest to both materials scientists and chemists in academia and industry.

FRONTIERS IN CHEMISTRY - RISING STARS: ASIA

Frontiers Media SA

MODERN APPROACH TO CHEMICAL CALCULATIONS AN INTRODUCTION TO THE MOLE CONCEPT

CERAMIC ABSTRACTS

JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN

PURE AND FUNCTIONALIZED CARBON BASED NANOMATERIALS

ANALYTICAL, BIOMEDICAL, CIVIL AND ENVIRONMENTAL ENGINEERING APPLICATIONS

CRC Press This book describes in a comprehensive manner latest studies conducted by various research groups worldwide focusing on carbon and related nanomaterials. Fourteen chapters of this book deal with a number of key research topics and applications of pure and functionalized carbon nanomaterials and their hybrid nanocomposites. Specifically, the authors have presented interdisciplinary investigations including: (i) carbon nanoparticles and layers synthesis, (ii) analytical aspects of carbon nanomaterials and their characterisation under different conditions as well as (iii) various applications of carbon nanoparticles. They have reported and summarised key applications of carbon particles or nanoobjects in pharmacy, biomedicine, agriculture and food industry, water treatment, physicochemical analysis, optoelectronics, electronic and magnetic materials for supercapacitors or radar adsorbing materials, tribology, chromatography, electrophoresis, bioanalysis, nanobiocatalysis, biofuels production as well as environmental remediation.

PROCESS-STRUCTURE-PROPERTY RELATIONSHIPS IN METALS

MDPI This book is a printed edition of the Special Issue "Process-Structure-Property Relationships in Metals" that was published in Metals

GROUPS IV, V, AND VI TRANSITION METALS AND COMPOUNDS

PREPARATION AND PROPERTIES

Springer Science & Business Media responsibility.) To Betty Edwards and Emily Copenhaver my thanks for what must have seemed endless typing, retyping and correcting of these bibliographies over a span of years. Availability of Documents U. S. Government contractor reports, usually identified by an alpha-numeric report number, can be purchased from National Technical Information Service U. S. Department of Commerce Springfield, Virginia 22151 and, often, on request from the issuing installation. USAEC reports are also available from International Atomic Energy Agency Kaerntnerring A 1010 Vienna, Austria National Lending Library Boston Spa England Monographs and reports of the National Bureau of Standards are for sale by Superintendent of Documents U. S. Government Printing Office Washington, D. C. 20402 Theses, listed as Dissertation Abstracts + number, are available in North or South America from University Microfilms Dissertation Copies P. O. Box 1764 Ann Arbor, Michigan 48106 and elsewhere from University Microfilms, Ltd. St. John's Road Tylers Green Penn, Buckinghamshire England Other Information Centers and New Journals New journals Information centers Field and and other sources serials Ultra purification 4, 8, 11, 13, 15, 16,19, 20, 9,11,15, 24, 31, 32 and 21, 28, 30, 32, 33, 42, 58, 59 crystal growth ix Preface Field Information centers New journals and and other -sources serials Characterization Miscellaneous 3,4, 8, 11, 13, 16, 19, 20, 1,3,4,8,11,15,17, 21, 26, 28, 30, 31, 32, 33, 35, 24, 25, 28, 29, 30, 31, 37, 38, 39, 40, 42, 46, 53, 56, 32 58, 60, 61, 62

ADVANCED PROBLEMS IN PHYSICAL CHEMISTRY FOR COMPETITIVE EXAMINATION

Pearson Education India Advanced Problems in Physical Chemistry has been conceived to meet the specific requirements of the students preparing for IIT-JEE, Olympiad and other competitive examinations. This book provides a comprehensive and systematic coverage of problems in physical chemistry and enables quick applications of concepts through numerous problems provided in each chapter. The problems are graded as per JEE Main and Advanced respectively. The best way to ensure that students understand the concepts of physical chemistry is to solve as many problems on each topic. This book is a must-have resource for candidates preparing for JEE Main and Advanced exams.

FUNDAMENTALS OF BIOANALYTICAL TECHNIQUES AND INSTRUMENTATION, SECOND EDITION

PHI Learning Pvt. Ltd. This thoroughly revised edition of the book demonstrates principle and instrumentation of each technique routinely used in biotechnology. Like the previous edition, the second edition also follows non-mathematical approach. Three aspects of each technique including principle, methodology with knowledge of different parts of an instrument; and applications have now been discussed in the text. For the beginners, the book will help in building a strong foundation, starting from the preparation of solutions, extraction, separation and analysis of biomolecules to the characterisation by spectroscopic methods—the full gamut of biological analysis. NEW TO THE SECOND EDITION • Incorporates two new chapters on 'Radioisotope Tracer Techniques' and 'Basic Molecular Biology Techniques and Bioinformatics'. • Comprises a full chapter on 'Fermentation and

Bioreactors' Design and Instrumentation' (the revised and updated version of Miscellaneous Methods of the previous edition). • Contains a number of pictorial illustrations, tables and worked-out examples to enhance students' understanding of the topics. • Includes chapter-end review questions. TARGET AUDIENCE • B.Sc./B.Tech (Biotechnology) • M.Sc./M.Tech (Biotechnology)

CURRENT CHEMICAL PAPERS

METAL OXIDES

MDPI The Special Issue contains ten research papers, three of which review papers. It is a miscellaneous composition encompassing several applications where metal oxides play a key role. Some papers also give insights into novel synthesis methods and processes aiming to reduce negative environmental impacts and increase materials and process efficiency, thus also covering a broader concern of sustainability issues. The topics covered in this issues are: transparent conductive oxides, ceramic composites for tool applications, oxides nanoparticles for A-TIG welding, critical raw materials saving, metallurgical waste treatment, oxides for high temperature applications, nanostructured oxides and composites for gas sensing and desulfuration, and metal oxides sorbents for CO₂ capture.

NANOSTRUCTURED ZINC OXIDE

SYNTHESIS, PROPERTIES AND APPLICATIONS

Elsevier Nanostructured Zinc Oxide covers the various routes for the synthesis of different types of nanostructured zinc oxide including; 1D (nanorods, nanowires etc.), 2D and 3D (nanosheets, nanoparticles, nanospheres etc.). This comprehensive overview provides readers with a clear understanding of the various parameters controlling morphologies. The book also reviews key properties of ZnO including optical, electronic, thermal, piezoelectric and surface properties and techniques in order to tailor key properties. There is a large emphasis in the book on ZnO nanostructures and their role in optoelectronics. ZnO is very interesting and widely investigated material for a number of applications. This book presents up-to-date information about the ZnO nanostructures-based applications such as gas sensing, pH sensing, photocatalysis, antibacterial activity, drug delivery, and electrodes for optoelectronics. Reviews methods to synthesize, tailor, and characterize 1D, 2D, and 3D zinc oxide nanostructured materials Discusses key properties of zinc oxide nanostructured materials including optical, electronic, thermal, piezoelectric, and surface properties Addresses most relevant zinc oxide applications in optoelectronics such as light-emitting diodes, solar cells, and sensors

NUMERICAL CHEMISTRY

ORDERED AND DISORDERED CUBIC SYSTEMS: PYROCHLORE TO FLUORITE, NOW AND THE HORIZON

Frontiers Media SA

BATTELLE TECHNICAL REVIEW

INORGANIC CHEMISTRY OF THE TRANSITION ELEMENTS

MASS SPECTROMETRY BULLETIN

METALS ABSTRACTS

JOURNAL OF THE INDIAN CHEMICAL SOCIETY

TOXICOLOGY OF GLUTATHIONE TRANSFERASES

CRC Press Since the discovery of Glutathione S-Transferase (GST) or Glutathione transferase, studies have probed important questions about its pharmacological and physiological significance. Toxicology of Glutathione Transferases is the only text that details the methods used in GST research. With chapters written by experts who have been involved in

BIBLIOGRAPHY

Walter de Gruyter By browsing about 10 000 000 scientific articles of over 200 major journals some 200 000 publications were selected. The extracted data is part of the following material research fields: crystal structures (S), phase diagrams (C) and intrinsic physical properties (P). These research field codes as well as the chemical systems investigated in each publication were included in the present work. The aim of this Bibliography is to provide researchers with a comprehensive compilation of all up to now published scientific publications on inorganic systems in only three handy volumes.

HUNGARIAN R&D ABSTRACTS

SCIENCE AND TECHNOLOGY

INDEX MEDICUS

CUMULATED INDEX MEDICUS

DIRECTORY OF SCIENTIFIC RESEARCH IN INDIAN UNIVERSITIES

SWIFT HEAVY IONS FOR MATERIALS ENGINEERING AND NANOSTRUCTURING

Springer Science & Business Media Ion beams have been used for decades for characterizing and analyzing materials. Now energetic ion beams are providing ways to modify the materials in unprecedented ways. This book highlights the emergence of high-energy swift heavy ions as a tool for tailoring the properties of materials with nanoscale structures. Swift heavy ions interact with materials by exciting/ionizing electrons without directly moving the atoms. This opens a new horizon towards the 'so-called' soft engineering. The book discusses the ion beam technology emerging from the non-equilibrium conditions and emphasizes the power of controlled irradiation to tailor the properties of various types of materials for specific needs.

CHEMICALLY DERIVED GRAPHENE

FUNCTIONALIZATION, PROPERTIES AND APPLICATIONS

Royal Society of Chemistry A comprehensive overview of the recent and state-of-the-art research on chemically derived graphene materials for different applications.

INDIAN JOURNAL OF PURE & APPLIED PHYSICS

JOURNAL OF THE INDIAN CHEMICAL SOCIETY

BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN

ACTIVATION OF SMALL MOLECULES

ORGANOMETALLIC AND BIOINORGANIC PERSPECTIVES

John Wiley & Sons The first to combine both the bioinorganic and the organometallic view, this handbook provides all the necessary knowledge in one convenient volume. Alongside a look at CO₂ and N₂ reduction, the authors discuss O₂, NO and N₂O binding and reduction, activation of H₂ and the oxidation catalysis of O₂. Edited by the highly renowned William Tolman, who has won several awards for his research in the field.