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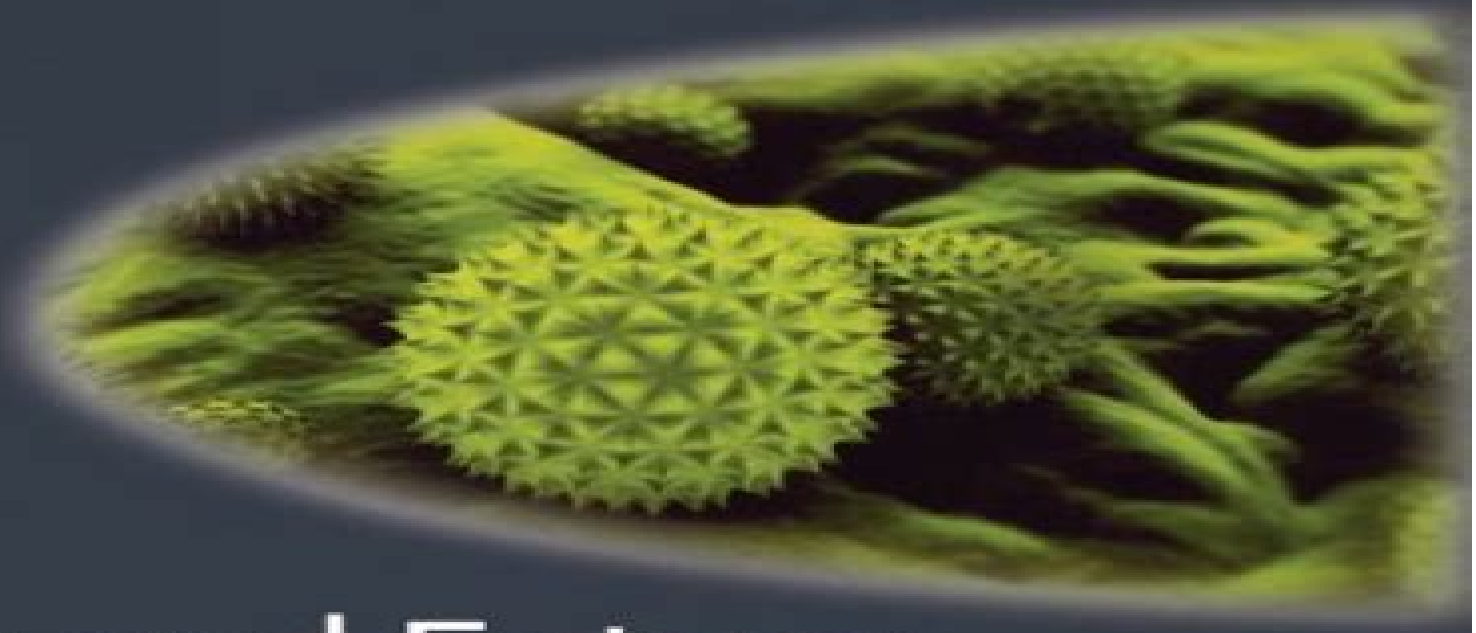

New and Future Developments in Catalysis

Catalysis by Nanoparticles

New And Future Developments In Catalysis Catalysis By Nanoparticles

Olga A. Baturina,Alevtina E. Smirnova

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Materials at the Two-Dimensional Limit Falko P. Netzer,Alessandro Fortunelli,2016-04-01 This book summarizes the current knowledge of two dimensional oxide materials The fundamental properties of 2 D oxide systems are explored in terms of atomic structure electronic behavior and surface chemistry The concept of polarity in determining the stability of 2 D oxide layers is examined charge transfer effects in ultrathin oxide films are reviewed as well as the role of defects in 2 D oxide films The novel structure concepts that apply in oxide systems of low dimensionality are addressed and a chapter giving an overview of state of the art theoretical methods for electronic structure determination of nanostructured oxides is included Special emphasis is given to a balanced view from the experimental and the theoretical side Two dimensional materials and 2 D oxides in particular have outstanding behavior due to dimensionality and proximity effects Several chapters treat prototypical model systems as illustrative examples to discuss the peculiar physical and chemical properties of 2 D oxide systems The chapters are written by renowned experts in the field *Silver Nanoparticle Applications* Emilio I. Alarcon,May Griffith,Klas I. Udekwu,2015-02-20 Exploring the synthesis characterization surface manipulation electron transfer and biological activity of silver nanoparticles this book examines the fundamentals of the properties and synthesis of these particles With a renewed interest in silver nanoparticles this book addresses the need to understand their potential in industrial medical and other applications It is divided into six chapters each written by an expert and providing a comprehensive review of the topic while detailing recent advances made in each specific area These topics include surface plasmon band synthesis and characterization Surface enhanced Raman spectroscopy SERS and plasmon resonance mediated processes photocatalysis biomedical applications and biological activity It also presents the current state of the art challenges and future trends of catalysis sensing and biomedical applications Silver Nanoparticle Applications provides an invaluable reference work and introduction for chemists biologists physicists and biomedical researchers who are interested in exploring the uses and applications of silver nanoparticles It is also intended for students researchers and professionals interested in nanotechnology

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