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~~Optical Properties and Spectroscopy of Nanomaterials.~~  
Dr. Zhang's research interest mainly focuses on two fields: (1) nonlinear optical spectroscopy and (2) quantum thermodynamics for nanomaterials. The first one is to develop the time- and spatial-resolved nonlinear spectroscopies (e.g., using X-ray and quantum properties of light) to study the molecular relaxation and radiative

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Optical properties are among the most fascinating and useful properties of nanomaterials and have been extensively studied using a variety of optical spectroscopic techniques. A basic understanding of the optical properties and related spectroscopic techniques is essential for anyone who is interested in learning about nanomaterials of semiconductors, insulators or metal. This is partly because optical properties are intimately related to other properties and functionalities (e.g. electronic, magnetic, and thermal) that are of fundamental importance to many technological applications, such as energy conversion, chemical analysis, biomedicine,

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optoelectronics, communication, and radiation detection.

Intentionally designed for upper-level undergraduate students and beginning graduate students with some basic knowledge of quantum mechanics, this book provides the first systematic coverage of optical properties and spectroscopic techniques of nanomaterials.

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relationships, material behavior fine-tuning, biological effects, and applications in the life sciences. This landmark set provides materials scientists, chemists, biologists, molecular biologists, clinical physicists, physiological chemists, medicinal chemists, and toxicologists with essential awareness of life science applications.

Nanosensors for Smart Cities covers the fundamental design concepts and emerging applications of nanosensors for the creation of smart city infrastructures. Examples of major applications include logistics management, where nanosensors could be used in active transport tracking devices for smart tracking and tracing, and in agri-food productions, where nanosensors are used in nanochips for identity, and food inspection, and smart storage. This book is essential reading for researchers working in the field of advanced

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sensors technology, smart city technology and nanotechnology, and stakeholders involved in city management. Nanomaterials based sensors (nanosensors) can offer many advantages over their microcounterparts, including lower power consumption, high sensitivity, lower concentration of analytes, and smaller interaction distance between object and sensor. With the support of artificial intelligence (AI) tools, such as fuzzy logic, genetic algorithms, neural networks, and ambient-intelligence, sensor systems are becoming smarter. Provides information on the fabrication and fundamental design concepts of nanosensors for intelligent systems Explores how nanosensors are being used to better monitor and maintain infrastructure services, including street lighting, traffic management and pollution control Assesses the challenges for creating nanomaterials-enhanced sensors for mass-market consumer



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products

This book introduces the key concepts of nanoscale spectroscopy methods used in nanotechnologies in a manner that is easily digestible for a beginner in the field. It discusses future applications of nanotechnologies in technical industries. It also covers new developments and interdisciplinary research in engineering, science, and medicine. An overview of nanoscale spectroscopy for nanotechnologies, the book describes the technologies with an emphasis on how they work and on their key benefits. It also serves as a reference for veterans in the field.

Nanomaterials in Plants, Algae and Microorganisms: Concepts and Controversies: Volume One discusses the vast amount of

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nanomaterials that have been released into the environment in a relatively short amount of time. There is a need to understand what the implications to the health of our biota and ecosystems are as the earth is increasingly inundated with these materials. Not all of the effects are negative, but their impacts are increasing exponentially due to their size, quantity and other factors. Covers the issues of nanoparticles on more simple organisms and their ecosystems Presents issues that are specific to terrestrial ecosystems Contains contributions from global experts who help increase understanding at the physiological, biochemical, molecular, and even genomic and proteomic levels Provides a critical assessment of the progress taking place on this topic and sheds light on future research needs

Nanomaterials Applications for Environmental Matrices: Water,

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Soil and Air takes a highly interdisciplinary approach in evaluating the use of a range of nanomaterials for various environmental applications, focusing, in particular, on their use in soil remediation, in improving water cleanliness, and in improving air quality. The book will not only help both materials scientists and environmental scientists understand the role played by nanomaterials in achieving these goals, but also give them practical ways they can be used to this end. Brings together the various applications and experimental aspects of nanoscience in the fields of chemistry, biology, environmental science and physics Maps the relationship between synthesis, properties and environmental interactions of nanomaterials, enabling greater understanding Describes new application opportunities for using nanomaterials in pollution trace detection and environmental improvement

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Discusses polymer nanocomposites composed of a family of polymeric materials whose properties are capable of being tailored to meet specific applications.

This book provides a comprehensive collection of the latest information on nanomaterials and nanocomposites. It covers material synthesis, processing, structure characterization, properties and applications. It presents a coherent treatment of how composite properties depend on nanostructure, and covers cutting-edge topics like bionanocomposites for sustainable development. This book summarizes many developments in the field making it an ideal resource for researchers from industry, academia, government and private research institutions.

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The subject matter of this book is the application of EMR/ESR/EPR spectroscopy for characterization of nanomaterials. Initial chapters deal with nanomaterials and their classification. Characterization of metallic nanoparticles, metal oxide nanoparticles and rare earth impurity doped nanoparticles from the (ESR) spectrum parameters are covered in the chapters that follow. A special feature of the book is EMR/ESR/EPR spectroscopic characterization of nanoparticles which are important due to their bactericidal and anticancerous properties. Strength of continuous wave (CW) is explained with the help of suitable examples. The book focuses on applications and data interpretation avoiding extensive use of mathematics so that it also caters to the need of young scientists in the life science disciplines. The book includes a comparison with

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other spectroscopic characterization methods so as to give an integrated approach to the reader. It will prove useful to biomedical scientists and engineers, chemists, and materials engineers in student, researcher, and practitioner positions.

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