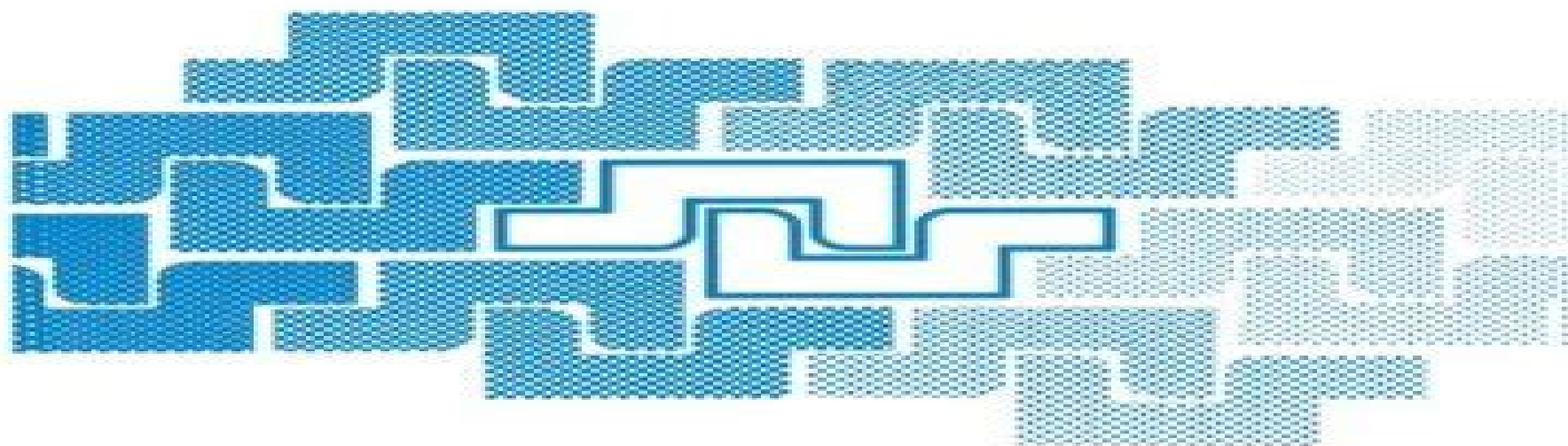




Low-Dimensional Systems: Theory, Preparation, and Some Applications

Edited by

Luis M. Liz-Marzán and Michael Giersig

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Lowdimensional Systems Theory Preparation And Some Applications

Luis M. Liz-Marzán, Michael Giersig



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Low-Dimensional Systems Luis M. Liz-Marzan, Michael Giersig, 2014-01-15 *Low-Dimensional Systems: Theory, Preparation, and Some Applications* Luis M. Liz-Marzán, Michael Giersig, 2012-12-06 This volume contains papers presented at the NATO Advanced Research Workshop ARW Dynamic Interactions in Quantum Dot Systems held at Hotel Atrium in Puszczkowo near Poznan Poland May 16 19 2002 The term low dimensional systems which is used in the title of this volume refers to those systems which contain at least one dimension that is intermediate between those characteristic of atoms molecules and those of the bulk material Depending on how many dimensions lay within this range we generally speak of quantum wells quantum wires and quantum dots As such an intermediate state some properties of low dimensional systems are very different to those of their molecular and bulk counterparts These properties generally include optical electronic and magnetic properties and all these are partially covered in this book The main goal of the workshop was to discuss the actual state of the art in the broad area of nanotechnology The initial focus was on the innovative synthesis of nanomaterials and their properties such as quantum size effects superparamagnetism or field emission These topics lead us into the various field based interactions including plasmon magnetic spin and exciton coupling The newer more sophisticated methods for characterization of nanomaterials were discussed as well as the methods for possible industrial applications In general chemists and physicists as well as experts on both theory and experiments on nanosized regime structures were brought together to discuss the general phenomena underlying their fields of interest from different points of view **Optics, Light and Lasers** Dieter Meschede, 2017-02-24 This new updated and enlarged edition of the successful and exceptionally well structured textbook features new chapters on such hot topics as optical angular momentum microscopy beyond the resolution limit metamaterials femtocombs and quantum cascade lasers It provides comprehensive and coherent coverage of fundamental optics laser physics and important modern applications while equally including some traditional aspects for the first time such as the Collins integral or solid immersion lenses Written for newcomers to the topic who will benefit from the author's ability to explain difficult theories and effects in a straightforward and readily comprehensible way **Nanoscale Materials** Luis M. Liz-Marzán, Prashant V. Kamat, 2007-05-08 Organized nanoassemblies of inorganic nanoparticles and organic molecules are building blocks of nanodevices whether they are designed to perform molecular level computing sense the environment or improve the catalytic properties of a material The key to creation of these hybrid nanostructures lies in understanding the chemistry at a fundamental level This book serves as a reference book for researchers by providing fundamental understanding of many nanoscopic materials **Recent Trends in Radiation Chemistry** James F. Wishart, B. S. Madhava Rao, 2010 This volume is a review of the trends in the field of radiation chemistry research It covers a broad spectrum of topics ranging from the historical perspective instrumentation of accelerators in the nanosecond to femtosecond region through the use of radiation chemical methods in the study of antioxidants and nanomaterials radiation induced DNA

damage by ionizing radiation involving both direct and indirect effects to ultrafast events in free electron transfer radiation induced processes at solid liquid interfaces and the recent work on infrared spectroscopy and radiation chemistry The book is unique in that it covers a wide spectrum of topics that will be of great interest to beginners as well as experts Recent data on ultrafast phenomena from the recently established world class laser driven accelerators facilities in the US France and Japan are reviewed

Carbon Related Materials Satoru Kaneko, Masami Aono, Alina Pruna, Musa Can, Paolo Mele, Mehmet Ertugrul, Tamio Endo, 2020-10-12 This book commemorates the Nobel Laureate Professor Suzuki Special Symposium at the International Union of Material Research Society International Conference on Advanced Materials IUMRS ICAM2017 which was held at Kyoto University Japan in 2017 The book begins with a foreword by Professor Akira Suzuki Subsequently many authors who attended the special symposium describe the latest scientific advances in the field of carbon materials and carbon nanomaterials including polymers carbon nanocomposites and graphene Carbon based materials have recently been the focus of considerable attention given their wide range of potential applications Fittingly the chapters in this book cover both experimental and theoretical approaches in several categories of carbon related materials

Magnetic Nano- and Microwires Manuel Vázquez, 2015-05-27 Magnetic nanowires and microwires are key tools in the development of enhanced devices for information technology memory and data processing and sensing Offering the combined characteristics of high density high speed and non volatility they facilitate reliable control of the motion of magnetic domain walls a key requirement for the development of novel classes of logic and storage devices Part One introduces the design and synthesis of magnetic nanowires and microwires reviewing the growth and processing of nanowires and nanowire heterostructures using such methods as sol gel and electrodeposition combinations focused electron ion beam induced deposition chemical vapour transport quenching and drawing and magnetic interactions Magnetic and transport properties alongside domain walls in nano and microwires are then explored in Part Two before Part Three goes on to explore a wider range of applications for magnetic nano and microwire devices including memory microwave and electrochemical applications in addition to thermal spin polarization and configuration magnetic calorific effects and Bloch point dynamics Detailed coverage of multiple key techniques for the growth and processing of nanowires and microwires Reviews the principles and difficulties involved in applying magnetic nano and microwires to a wide range of applications Combines the expertise of specialists from around the globe to give a broad overview of current and future trends

Nanoparticle Assemblies and Superstructures Nicholas A. Kotov, 2016-04-19 Cubes triangular prisms nano acorn nano centipedes nanoshells nano whiskers Now that we can create nanoparticles in a wide variety of shapes and morphologies comes the next challenge finding ways to organize this collection of particles into larger and more complex systems Nanoparticle Assemblies and Superstructures edit

Colloidal Synthesis of Plasmonic Nanometals Luis Liz-Marzán, 2020-04-23 Noble metal nanoparticles have attracted enormous scientific and technological interest because of their unique optical properties which are related to surface plasmon resonances The

interest in nanosized metal particles dates back to ancient societies when metals were used in various forms as decorative elements. From the famous Lycurgus cup made by the Romans in the 4th century AD through thousands of stained glasses in churches and cathedrals all over medieval Europe, bright yellow, green or red colors have been obtained by a touch of metallic additions during glass blowing. This peculiar interaction of light with nanometals can be widely tuned through the morphology and assembly of nanoparticles, thereby expanding the range of potential applications from energy and information storage to biomedicine, including novel diagnostic and therapeutic methods. This book compiles recent developments that clearly illustrate the state of the art in this cutting edge research field. It comprises different review articles written by the teams of Prof. Luis Liz-Marzán, an international leader in chemical nanotechnology who has made seminal contributions to the use of colloid chemistry methods to understand and tailor the growth of metal particles at the nanoscale. Apart from synthesis, the book also describes in detail the plasmonic properties of nanomaterials and illustrates some representative applications. This book will appeal to anyone involved in nanotechnology, nanocrystal growth, nanoplasmonics and surface enhanced spectroscopies. **International Journal of Nanotechnology**, 2005

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