

Yong Sheng Zhao *Editor*

# Organic Nanophotonics

Fundamentals and Applications



Springer

# Organic Nanophotonics

**David L. Andrews**

## Organic Nanophotonics:

**Organic Nanophotonics** Yong Sheng Zhao,2014-11-05 This comprehensive text collects the progress made in recent years in the fabrication processing and performance of organic nanophotonic materials and devices The first part of the book addresses photonic nanofabrications in a chapter on multiphoton processes in nanofabrication and microscopy imaging The second part of the book is focused on nanoscale light sources for integrated nanophotonic circuits and is composed of three chapters on organic nano microcavities organic laser materials and polymer light emitting electrochemical cells LECs The third part is focused on the interactions between light and matter and consists in three chapters including the propagation of light in organic nanostructures and photoswitches based on nonlinear optical polymer photonic crystals and photoresponsive molecules respectively The final chapter of this book introduces the integration of miniaturized photonic devices and circuits with various organic nanophotonic elements The practical case studies demonstrate how the latest applications actually work while tables throughout the book summarize key information and diagrams and figures help readers to grasp complex concepts and designs The references at the end of each chapter can be used as the gateway to the relevant literature in the field Moreover this book helps researchers to advance their own investigations to develop the next generation of

miniaturized devices for information processing efficient energy conversion and highly accurate sensing Yong Sheng Zhao PhD is a Professor at the Institute of Chemistry Chinese Academy of Sciences ICCAS China *Organic Nanophotonics*

Fabrice Charra,Vladimir M. Agranovich,F. Kajzar,2003-04-30 Photonics concerns the generation transport processing and detection of light It underlies a large amount of industrial activity mainly devoted to information technology

telecommunications environmental monitoring biomedical science and instrumentation The field has received a powerful impetus recently with the introduction of nanoscale concepts Moreover organic materials now appear as key components in photonic devices such as light emitting diodes integrated lasers or photovoltaic cells Organic molecular systems offer unique opportunities in nanophotonics since both top down and bottom up strategies can be pursued towards the nanoscale This book gathers the proceedings of the NATO advanced research workshop on Organic Nanophotonics held in Aix en Provence France August 25 29 2002 It constitutes a snapshot of the state of the art in the novel emerging research area of nanophotonics based on organic molecules and materials

**Soft Matter Nanotechnology** Xiaodong Chen,Harald

Fuchs,2015-08-10 Using the well honed tools of nanotechnology this book presents breakthrough results in soft matter research benefitting from the synergies between the chemistry physics biology materials science and engineering communities The team of international authors delves beyond mere structure making and places the emphasis firmly on imparting functionality to soft nanomaterials with a focus on devices and applications Alongside reviewing the current level of knowledge they also put forward novel ideas to foster research and development in such expanding fields as nanobiotechnology and nanomedicine As such the book covers DNA induced nanoparticle assembly nanostructured

substrates for circulating tumor cell capturing and organic nano field effect transistors as well as advanced dynamic gels and self healing electronic nanodevices With its interdisciplinary approach this book gives readers a complete picture of nanotechnology with soft matter *Comprehensive Nanoscience and Technology* ,2010-10-29 From the Introduction Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other *Comprehensive Nanoscience and Nanotechnology* ,2019-01-02 Comprehensive Nanoscience and Technology Second Edition Five Volume Set allows researchers to navigate a very diverse interdisciplinary and rapidly changing field with up to date comprehensive and authoritative coverage of every aspect of modern nanoscience and nanotechnology Presents new chapters on the latest developments in the field Covers

topics not discussed to this degree of detail in other works such as biological devices and applications of nanotechnology Compiled and written by top international authorities in the field Progress in Nanophotonics 4 Motoichi Ohtsu, Takashi Yatsui, 2017-02-18 This book presents the recent progress in the field of nanophotonics It contains review like chapters focusing on various but mutually related topics in nanophotonics written by the world's leading scientists Following the elaboration of the idea of nanophotonics much theoretical and experimental work has been carried out and several novel photonic devices high resolution fabrication highly efficient energy conversion and novel information processing have been developed in these years Novel theoretical models describing the nanometric light matter interaction nonequilibrium statistical mechanical models for photon breeding processes and near field assisted chemical reactions as well as light matter interaction are also explained in this book It describes dressed photon technology and its applications including implementation of nanophotonic devices and systems fabrication methods and performance characteristics of ultrathin ultraflexible organic light emitting diodes organic solar cells and organic transistors Nanophotonic Materials, 2005

*Photonics, Volume 2* David L. Andrews, 2015-02-24 Discusses the basic physical principles underlying the science and technology of nanophotonics its materials and structures This volume presents nanophotonic structures and Materials Nanophotonics is photonic science and technology that utilizes light matter interactions on the nanoscale where researchers are discovering new phenomena and developing techniques that go well beyond what is possible with conventional photonics and electronics The topics discussed in this volume are Cavity Photonics Cold Atoms and Bose Einstein Condensates Displays E paper Graphene Integrated Photonics Liquid Crystals Metamaterials Micro and Nanostructure Fabrication Nanomaterials Nanotubes Plasmonics Quantum Dots Spintronics Thin Film Optics Comprehensive and accessible coverage of the whole of modern photonics Emphasizes processes and applications that specifically exploit photon attributes of light Deals with the rapidly advancing area of modern optics Chapters are written by top scientists in their field Written for the graduate level student in physical sciences Industrial and academic researchers in photonics graduate students in the area College lecturers educators policymakers consultants Scientific and technical libraries government laboratories NIH Silicon-organic Hybrid Nanophotonics for High-efficiency THz Emission Marvin Schulz, 2020 Fullerenes Elena Sheka, 2011-02-16 Using an approach based on the author's original concepts this book addresses the unique features of fullerenes that make them the keystones of carbonaceous nanoscience Using tables graphs and equations to make comparisons the book explores the similarities and differences between fullerenes carbon nanotubes and graphene These visual aids help readers to better understand the possibilities of computational nanotechnology Provided by publisher JJAP, 2008 Nonlinear Optical Transmission and Multiphoton Processes in Organics, 2005 **Tenth International Conference on Nonlinear Optics of Liquid and Photorefractive Crystals** Gertruda V. Klimusheva, Andrey G. Iljin, Sergey Kostyukovich, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad

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