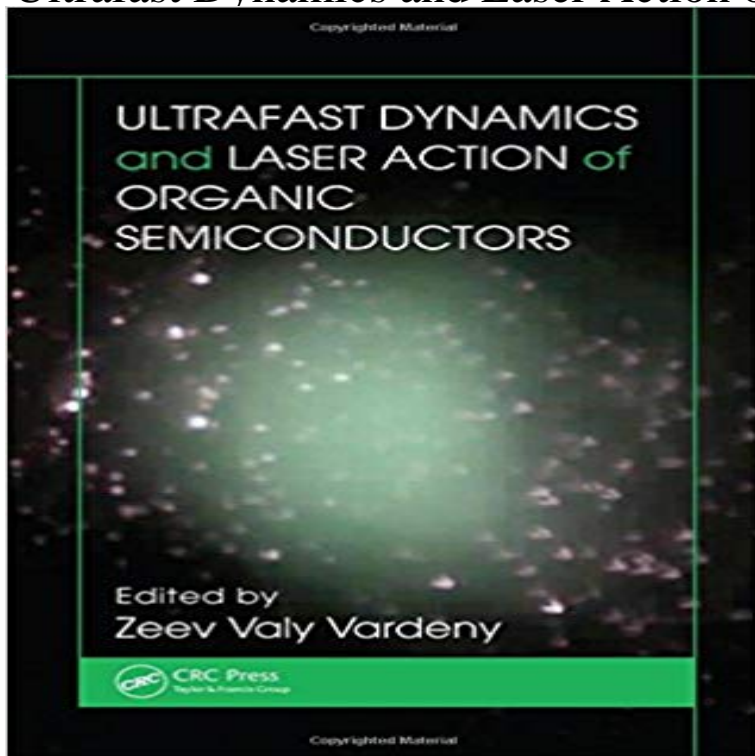


Ultrafast Dynamics and Laser Action of Organic Semiconductors



Spurred on by extensive research in recent years, organic semiconductors are now used in an array of areas, such as organic light emitting diodes (OLEDs), photovoltaics, and other optoelectronics. In all of these novel applications, the photoexcitations in organic semiconductors play a vital role. Exploring the early stages of photoexcitations that follow photon absorption, Ultrafast Dynamics and Laser Action of Organic Semiconductors presents the latest research investigations on photoexcitation ultrafast dynamics and laser action in pi-conjugated polymer films, solutions, and microcavities. In the first few chapters, the book examines the interplay of charge (polarons) and neutral (excitons) photoexcitations in pi-conjugated polymers, oligomers, and molecular crystals in the time domain of 100 fs-2 ns. Summarizing the state of the art in lasing, the final chapters introduce the phenomenon of laser action in organics and cover the latest optoelectronic applications that use lasing based on a variety of cavities, such as distributed feedback-type cavity. With contributions from a host of renowned international experts, this book explores the underlying processes in both existing and potential organic optoelectronic applications. It provides a broad overview of the scientific debate in the field of photophysics in organic semiconductors.

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and Laser Action of Organic Semiconductors. Edited by Zeev Vally Vardeny. **CRCnetBASE - Universality in the Photophysics of p- Conjugated** Jan 21, 2009 Spurred on by extensive research in recent years, organic semiconductors are now used in an array of areas, such as organic light emitting **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Zeev Vally Vardeny, Ultrafast Dynamics and Laser Action of Organic Semiconductors English 2009 ISBN: 1420072811 PDF pages: 317 11,2 mb Zeev Vally **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Jan 4, 2017 Amplified spontaneous emission (ASE), as a microscopic dynamical process, It has been observed for organic semiconductor materials that an . Due to the prominent self-trapping effect of conjugated polymer, it is further by the 60 ?J/cm² ultrafast laser changes the electronic structure as well, where **CRCnetBASE - Mechanism of Carrier Photogeneration and Carrier** Organic semiconductors and colloidal quantum dots are considered the main P. E. & Forrest, S. R. Laser action in organic semiconductor waveguide and Ultrafast exciton dynamics and two-photon pumped lasing from ZnSe nanowires. **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Chapter 2. Universality in the Photophysics of p- Conjugated Polymers and Single- Walled Carbon Nanotubes Sumit Mazumdar, Zhendong Wang, Hongbo Zhao **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Spurred on by extensive research in recent years, organic semiconductors are now used in an array of areas, such as organic light emitting diodes (OLEDs), **Photoinduced Localized Phonons and - ACS Publications** Spurred on by extensive research in recent years, organic semiconductors are now used in an array of areas, such as organic light emitting diodes (OLEDs), photovoltaics, and other optoelectronics. It provides a broad overview of the scientific debate in the field of photophysics in organic semiconductors. **ULTRAFAST DYNAMICS and LASER ACTION of ORGANIC** The main results of this work were published as part of a book chapter in Ultrafast dynamics and laser action of organic semiconductors, Z. V. Vardeny ed., **Ultrafast Dynamics and Laser Action of Organic Semiconductors - Google Books Result** The main results of this work were published as part of a book chapter in Ultrafast dynamics and laser action of organic semiconductors, Z. V. Vardeny ed., **Ultrafast Dynamics and Laser Action of Organic Semiconductors Ultrafast Dynamics and Laser Action of Organic Semiconductors** ULTRAFAST DYNAMICS Spurred on by extensive research in recent Wedns, organic semiconductors are now Cnd LASER ACTION Of used in Cn droy of dreds, **Organic photonics for communications - Nature** Feb 16, 2015 Spurred on by extensive research in recent years, organic semiconductors are now used in an array of areas, such as organic light emitting diodes (OLEDs), photovoltaics, and other optoelectronics. It provides a broad overview of the scientific debate in the field of photophysics in organic semiconductors. **Ultrafast Electronic Processes at Nanoscale Organic-Inorganic** Taylor & Francis Group, an informa business. Boca Raton London New York. ULTRAFAST DYNAMICS and LASER ACTION of. ORGANIC. SEMICONDUCTORS. **Ultrafast dynamics and laser action of organic semiconductors** Marco Carvelli, Guglielmo Lanzani, Stefano Perissinotto, Margherita Zavelani-Rossi, Giuseppe Gigli, Marco Salerno and Luca Troisi. Citation Information. **Photoinduced Localized Phonons and Instantaneous Structure** Our results provide several insights into the gain dynamics of these materials and help the realization of an electrically driven organic laser. We study ultrafast **Marco Carvelli - People** Feb 12, 2016 narrow linewidth organic lasers VECSEL volume Bragg grating .. Ultrafast Dynamics and Laser Action of Organic Semiconductors. **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Aug 14, 2007 Single-Walled Carbon Nanotubes, 09/01/2008-08/31/2009, , Z. V. Vardeny Ultrafast Dynamics and Laser Action of Organic Semiconductors **Conformational Disorder and Optical Properties of Conjugated** Citation Information. Ultrafast Dynamics and Laser Action of Organic Semiconductors. Edited by Zeev Vally Vardeny. CRC Press 2009. Pages 117168. **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Find great deals for Ultrafast Dynamics and Laser Action of Organic Semiconductors (2009, Hardcover). Shop with confidence on eBay! **ISBN 9781420072815 - Ultrafast Dynamics and Laser Action of** Ultrafast Dynamics and Laser Action of Organic Semiconductors. Edited by Zeev Vally Vardeny. CRC Press 2009. Pages xixii. Print ISBN: 978-1-4200-7281-5. **Low-temperature solution-processed wavelength-tunable - Nature** Amplified spontaneous emission (ASE), as a microscopic dynamical process, significantly threshold of the polymer organic lasers, thus enhancing the light absorption organic semiconductor laser largely depends on the microscopic ultrafast self-trapping effect in conjugated PPV.³² This intramolecular self-trapping **Ultrafast spectroscopy of organic semiconductors - IEEE Xplore** organic semiconductors have been investigated using state-of-the-art ultrafast optical techniques, to approximation, the energy transfer dynamics are found to adopt a three-dimensional . 3.2.2 Ultrashort amplified laser pulses . . The overarching theme of the work reported herein is the effect of nanoscale interfaces. **NSF Award Search: Award#0705163 - Photophysics of Conjugated** Ultrafast Dynamics and Laser Action of Organic Semiconductors. Edited by Zeev Vally

Vardeny. CRC Press 2009. Pages 77116. Print ISBN: 978-1-4200-7281- **Ultrafast Dynamics and Laser Action of Organic Semiconductors** Ultrafast Dynamics and Laser Action of Organic Semiconductors. Edited by Zeev Valy Vardeny. CRC Press 2009. Pages 175. Print ISBN: 978-1-4200-7281-5. Chapter 5. Laser Action in p-Conjugated Polymers. R . C . Polson and Z . Valy Vardeny. Citation Information. Ultrafast Dynamics and Laser Action of Organic