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**Semiconductors  
Probed by  
Ultrafast Laser Spectroscopy  
Volume II**

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**Edited by  
R. R. ALFANO**

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# Semiconductors Probed By Ultrafast 2vol

**A Gutmann**



## **Semiconductors Probed By Ultrafast 2vol:**

*Forthcoming Books* Rose Army, 1989-05      *Encyclopedia of Interfacial Chemistry*, 2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions      IEICE Transactions on Electronics, 2002      **Index of Conference Proceedings** British Library. Document Supply Centre, 1991      **Electrical & Electronics Abstracts**, 1997      **American Book Publishing Record**, 1991      INIS Atomindex, 1977      *Government Reports Announcements & Index*, 1994-02      *Index to IEEE Publications* Institute of Electrical and Electronics Engineers, 1997 Issues for 1973 cover the entire IEEE technical literature      **Subject Guide to Books in Print**, 1991      Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 2003      **Proceedings of the 12th International Symposium Ultrafast Phenomena in Semiconductors** International Symposium on Ultrafast Phenomena in Semiconductors, Adolfo Dargys, 2005      *Ultrafast Terahertz Probes of Transient Conducting and Insulating Phases in an Electron-hole Gas*, 2003 Many body systems in nature exhibit complexity and self organization arising from seemingly simple laws The long range Coulomb interaction between electrical charges generates a plethora of bound states in matter ranging from the hydrogen atom to complex biochemical structures Semiconductors form an ideal laboratory for studying many body interactions of quasi particles among themselves and with lattice vibrations and light Oppositely charged electron and hole quasi particles can coexist in an ionized but correlated plasma or form bound hydrogen like pairs called excitons which strongly affect physical properties The pathways between such states however remain elusive in near visible optical experiments that detect a subset of excitons with vanishing center of mass momenta In contrast transitions between internal exciton levels which occur in the far infrared at terahertz  $10^{12}$  frequencies are independent of this restriction suggesting their use as a novel probe of pair dynamics Here we employ an ultrafast terahertz probe to directly investigate the dynamical interplay of optically generated excitons and unbound electron hole pairs in GaAs quantum wells Our observations witness an unexpected quasi instantaneous excitonic enhancement reveal formation of insulating excitons on a hundred picosecond timescale and manifest conditions under which excitonic populations prevail      **Ultrafast Supercontinuum Generation in Transparent**

**Solid-state Media** Audrius Dubietis, Arnaud Couairon, 2019 This book presents the underlying physical picture and an overview of the state of the art of femtosecond supercontinuum generation in various transparent solid state media ranging from wide bandgap dielectrics to semiconductor materials and across various parts of the optical spectrum from the ultraviolet to the mid infrared A particular emphasis is placed on the most recent experimental developments multi-octave supercontinuum generation with pumping in the mid infrared spectral range spectral control power and energy scaling of broadband radiation and the development of simple flexible and robust pulse compression techniques which deliver few optical cycle pulses and which could be readily implemented in a variety of modern ultrafast laser systems The expected audience includes graduate students professionals and scientists working in the field of laser matter interactions and ultrafast nonlinear optics

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