

– T_2 processes:

- Pure dephasing of quantum confined excitons is dominated by radiative lifetime of exciton at low temperatures
- Polaronic coupling to excitons gives DOS peaks nonzero width
- Polaronic effects on electrons in QDs will be more like the effects of hydrogenic donors.
- Work with CdTe showed that phonon-induced linewidths of transitions of hydrogenic donors much smaller than those of excitons.
- Sherwin et al. Speculate that the phonon-induced linewidths will be sufficiently small as to not limit operation of the quantum computer.

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Ultrafast Electronics and Optoelectronics John E. Bowers, Wayne Harvey Knox, 1999 *Materials Under Extreme Conditions* A. K. Tyagi, S. Banerjee, 2017-01-13 *Materials Under Extreme Conditions Recent Trends and Future Prospects* analyzes the chemical transformation and decomposition of materials exposed to extreme conditions such as high temperature high pressure hostile chemical environments high radiation fields high vacuum high magnetic and electric fields wear and abrasion related to chemical bonding special crystallographic features and microstructures The materials covered in this work encompass oxides non oxides alloys and intermetallics glasses and carbon based materials The book is written for researchers in academia and industry and technologists in chemical engineering materials chemistry chemistry and condensed matter physics Describes and analyzes the chemical transformation and decomposition of a wide range of materials exposed to extreme conditions Brings together information currently scattered across the Internet or incoherently dispersed amongst journals and proceedings Presents chapters on phenomena materials synthesis and processing characterization and properties and applications Written by established researchers in the field **Ultrafast Phenomena in Semiconductors**, 1999 *Optical Amplifiers and Their Applications* Douglas M. Baney, Jay Martin Wiesenfeld, Katsumi Emura, 1998 *Terahertz Spectroscopy and Applications* Mark S. Sherwin, 1999 **Physics Briefs**, 1989-07 **Journal** American Chemical Society, 2002 *Optics and Spectroscopy*, 2005 *Quantum Dot Molecules* Jiang Wu, Zhiming M. Wang, 2013-10-28 A quantum dot molecule QDM is composed of two or more closely spaced quantum dots or artificial atoms In recent years QDMs have received much attention as an emerging new artificial quantum system The interesting and unique coupling and energy transfer processes between the artificial atoms could substantially extend the range of possible applications of quantum nanostructures This book reviews recent advances in the exciting and rapidly growing field of QDMs via contributions from some of the most prominent researchers in this scientific community The book explores many interesting topics such as the epitaxial growth of QDMs spectroscopic characterization and QDM transistors and bridges between the fundamental physics of novel materials and device applications for future information technology Both theoretical and experimental approaches are considered Quantum Dot Molecules can be recommended for electrical engineering and materials science department courses on the science and design of advanced and future electronic and optoelectronic devices *The Journal of Chemical Physics*, 1981-09 **Scientific and Technical Aerospace Reports**, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database [Laser Wakefield Electron Acceleration](#) Karl Schmid, 2011-05-18 This thesis covers the few cycle laser driven acceleration of electrons in a laser generated plasma This process known as laser wakefield acceleration LWFA relies on strongly driven plasma waves for the generation of accelerating gradients in the vicinity of several 100 GV m a value four orders of magnitude larger than that

attainable by conventional accelerators This thesis demonstrates that laser pulses with an ultrashort duration of 8 fs and a peak power of 6 TW allow the production of electron energies up to 50 MeV via LWFA The special properties of laser accelerated electron pulses namely the ultrashort pulse duration the high brilliance and the high charge density open up new possibilities in many applications of these electron beams *Springer Handbook of Lasers and Optics* Frank

Träger,2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references **Handbook of Laser Technology and Applications**

Chunlei Guo,2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser systems including the complete range of their technical applications The first volume outlines the fundamental components of lasers their properties and working principles The second volume gives exhaustive coverage of all major categories of lasers from solid state and semiconductor diode to fiber waveguide gas chemical and dye lasers The third volume covers modern applications in engineering and technology including all new and updated case studies spanning telecommunications and data storage to medicine optical measurement defense and security nanomaterials processing and characterization *Fiber Lasers* Liang

Dong,Bryce Samson,2016-09-19 The fiber laser with its humble beginning in the late 1980s has undergone tremendous development in the past decade or so transforming itself from a research curiosity to a major force in modern manufacturing Today it is revolutionizing our economy by fundamentally changing the way we mark machine and process materials on an industrial scale The recent development of high power fiber lasers is also fundamentally shaping a wide range of other areas from physical sciences and medicine to geology and space exploration In the past few years the tactical deployment of direct energy weapons based on fiber lasers has become a reality The development of fiber lasers is rooted in a number of technical areas including optical materials optical waveguide design nonlinear optics optical fiber fabrication and optical characterization in addition to optical fiber components and fiber laser design and architecture No comprehensive in depth coverage of such diverse topical areas has appeared in a single book Many important developments have taken place in the past decade in both academia and industry This book comprehensively covers the basics technology and applications of fiber lasers including up to date developments in both academia and industry and is aimed to serve as both an introduction and research aid for graduate students engineers and scientists who are new to this field and also for veterans in the field

X-Ray and Inner-Shell Processes R.W. Dunford,D.S. Gemmell,E.P. Kanter,B. Krässig,S.H. Southworth,L. Young,2000-03-03 This volume contains the written articles corresponding to the more than fifty invited presentations Most

of these articles provide current reviews of the status of various aspects of the field and are written by acknowledged experts Topics include historical reviews atoms molecules solids and surfaces highly charged ions nuclear effects fundamental physics imaging and medical applications as well as new sources and techniques *Summaries of Papers Presented at the Conference on Lasers and Electro-optics* ,2000 *NMR Methods for Characterization of Synthetic and Natural Polymers* Rongchun Zhang,Toshikazu Miyoshi,Pingchuan Sun,2019-07-29 Since the introduction of FT NMR spectroscopy around five decades ago NMR has achieved significant advances in hardware and methodologies accompanied with the enhancement of spectral resolution and signal sensitivity Rapid developments in the polymers field mean that accurate and quantitative characterization of polymer structures and dynamics is the keystone for precisely regulating and controlling the physical and chemical properties of the polymer This book specifically focuses on NMR investigation of complex polymers for the polymer community as well as NMR spectroscopists and will push the development of both fields It covers the latest advances for example high field DNP and ultrafast MAS methodologies and show how these novel NMR methods characterize various synthetic and natural polymers **Laser Applications in Life Sciences** ,1990 Faculties, Publications, and Doctoral Theses in Chemistry and Chemical Engineering at United States Universities American Chemical Society. Committee on Professional Training,1981

The Top Books of the Year Radiative Processes Dephasing Tops V18 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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