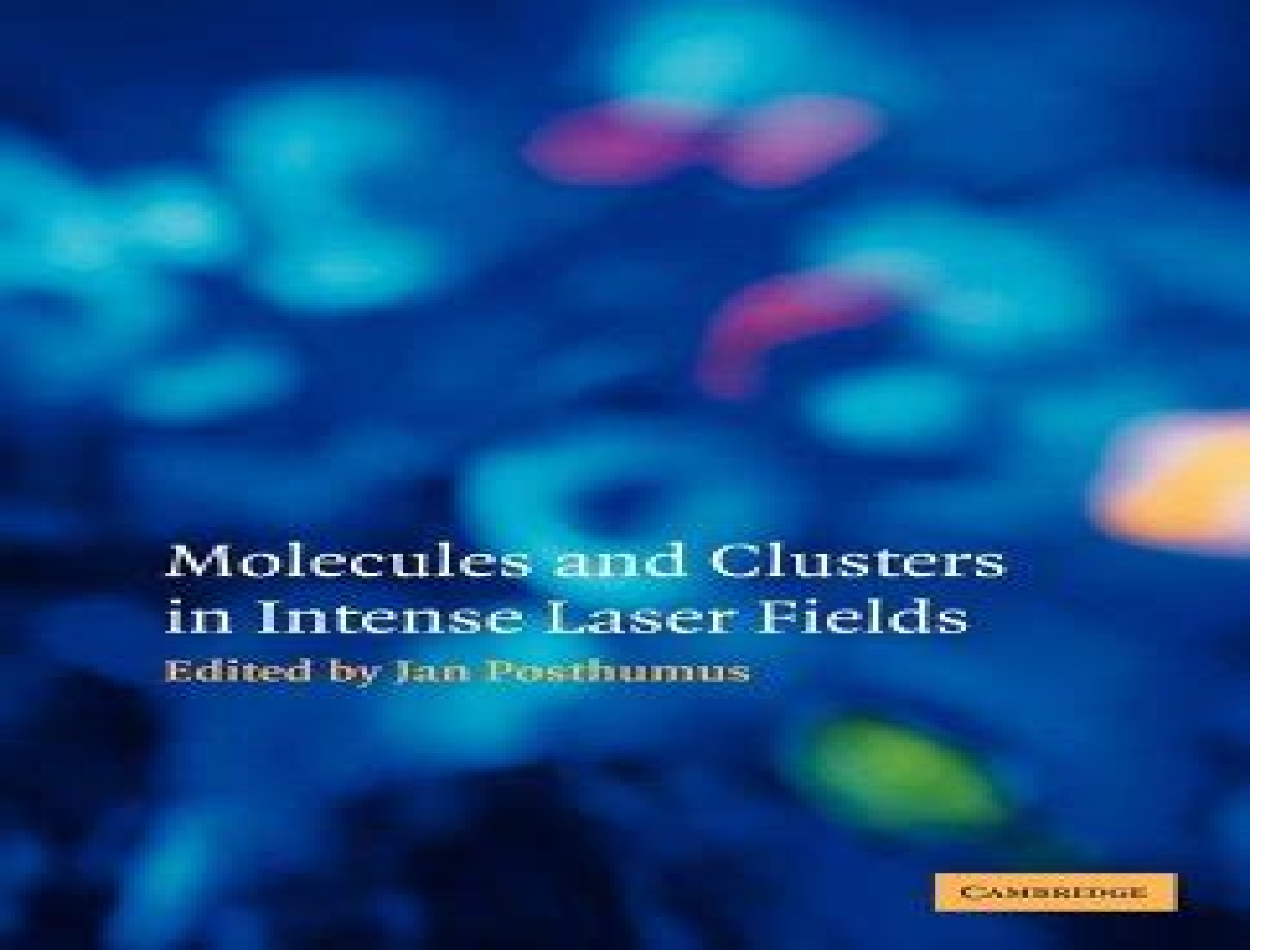




Molecules and Clusters in Intense Laser Fields

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Molecules And Clusters In Intense Laser Fields

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Molecules And Clusters In Intense Laser Fields:

Molecules and Clusters in Intense Laser Fields Jan Posthumus, 2001-06-28 This book provides a thorough introduction to the physics of molecules and clusters in intense laser fields It presents both theoretical and experimental aspects of the subject and covers new research in the area of clusters in intense laser fields The book discusses femto second pulse production and diagnostics and covers diatomic and polyatomic molecules as well as coherent control This book will be of interest to graduate students and researchers in atomic molecular and optical physics It will also be suitable as a reference text for advanced physics courses

Atoms, Molecules and Clusters in Intense Laser Fields, 2009 Atoms molecules and clusters in intense laser fields

Atoms, Solids, and Plasmas in Super-Intense Laser Fields Dimitri Batani, Charles J. Joachain, S. Martellucci, Arthur N. Chester, 2012-12-06 The recent development of high power lasers delivering femtosecond pulses of 2×10^{14} W cm has led to the discovery of new phenomena in laser interactions with matter At these enormous laser intensities atoms and molecules are exposed to extreme conditions and new phenomena occur such as the very rapid multi photon ionization of atomic systems the emission by these systems of very high order harmonics of the exciting laser light the Coulomb explosion of molecules and the acceleration of electrons close to the velocity of light These phenomena generate new behaviour of bulk matter in intense laser fields with great potential for wide ranging applications which include the study of ultra fast processes the development of high frequency lasers and the investigation of the properties of plasmas and condensed matter under extreme conditions of temperature and pressure In particular the concept of the fast ignitor approach to inertial confinement fusion ICF has been proposed which is based on the separation of the compression and the ignition phases in laser driven ICF The aim of this course on Atom Solids and Plasmas in Super Intense Laser fields was to bring together senior researchers and students in atomic and molecular physics laser physics condensed matter and plasma physics in order to review recent developments in high intensity laser matter interactions The course was held at the Ettore Majorana International Centre for Scientific Culture in Erice from July 8 to July 14 2000

Progress in Ultrafast Intense Laser Science II See Leang Chin, Pierre Agostini, Gaetano Ferrante, 2007-06-10 The world is filled with light and no doubt we have developed our idea of nature by seeing matters that is by irradiating matters with light When increasing the intensity of light we realized recently that a variety of new and hitherto unimaginable phenomena emerge In rapid succession above threshold ionization Coulomb explosion selective chemical bond breaking high order harmonic generation into deep XUV generation of short pulsed 18 X ray lamination and light pulse shortening into the attosecond 10 s time domain have been reported Light has gained a new function which is to change the character of matter itself and the consequences have triggered a lot of enthusiasm discussions and collaborations among the researchers A series of annual meetings International Symposium on Ultrafast Intense Laser Science <http://www.isuils.jp> with which this new Springer sub series collaborates was designed to stimulate further interdisciplinary interactions at the forefront of research aiming at

expanding the frontiers of the field The first ISUILS was held in Tokyo in 2002 featuring the issue of control of molecules in intense laser fields and the second ISUILS was held the next year in Quebec City From this ISUILS2 we started honoring distinguished researchers who have contributed to the establishment of the basis of this new research field Prof Hiroshi Takuma Tokyo and Prof Gerald Mainfray Saclay served as Honorary Co chairs at ISUILS2 and Prof Leonid Keldysh Moscow and Prof Orazio Svelto Milano at ISUILS3 held in Palermo in 2004

Ionization and Plasma Dynamics of Single Large Xenon Clusters in Superintense XUV Pulses Daniela Rupp, 2016-01-14 At the heart of this thesis is the young field of free electron laser science whose experimental and theoretical basics are described here in a comprehensible manner Extremely bright and ultra short pulses from short wavelength free electron lasers FELs have recently opened the path to new fields of research The x ray flashes transform all matter into highly excited plasma states within femtoseconds while their high spatial and temporal resolution allows the study of fast processes in very small structures Even imaging of single molecules may be within reach if ultrafast radiation damage can be understood and brought under control Atomic clusters have proven to be ideal model systems for light matter interaction studies in all wavelength regimes being size scalable easy to produce gas phase targets with a simple structure With FELs single cluster imaging and simultaneous ion spectroscopy makes possible experiments under extremely well defined initial conditions because the size of the cluster and the FEL intensity can be extracted from the scattering images For the first time large xenon clusters up to micron radius were generated Their single cluster scattering images were analyzed for cluster morphology and traces of the ultrafast plasma built up during the femtosecond FEL pulse The simultaneously measured single cluster ion spectra yield unprecedented insight into the ion dynamics following the interaction The results will feed both future experimental effort and theoretical modeling

Atom, Molecule, and Cluster Beams II Hans Pauly, 2000-09-27 This book completes the physical foundations and experimental techniques described in volume 1 with an updated review of the accessory equipment indispensable in molecular beam experiments It extends the subject to cluster beams and beams of hyperthermal and subthermal energies As in volume 1 a special effort is made to outline the physical foundations of the various experimental techniques Hence this book is intended not only as a reference standard for researchers in the field but also to bring the flavor of current molecular beam research to advanced undergraduates and graduate students and to enable them to gain a solid background in the field and its technique

Analysis and Control of Ultrafast Photoinduced Reactions Oliver Kühn, 2007-02-05 This book summarizes several years of research carried out by a collaboration of many groups on ultrafast photochemical reactions It emphasizes the analysis and characterization of the nuclear dynamics within molecular systems in various environments induced by optical excitations and the study of the resulting molecular dynamics by further interaction with an optical field

Applications of High-Field and Short Wavelength Sources Louis DiMauro, Margret Murnane, Anne L'Huillier, 2013-06-29 The Optical Society of America Conference on Applications of High Fields and Short Wavelength

Sources held in Santa Fe New Mexico USA from March 20-22 1997 was an exceptionally exciting conference. This conference was the seventh in a series of topical conferences held every two years which are devoted to the generation and application of high field and short wavelength sources. The meeting was truly international in scope with equal participation from both within and outside of the US. In the past two years there has been dramatic progress in both laser and x-ray coherent sources both fundamental and applied. The 1997 meeting highlighted these advances which are summarized in sections 1 and 2 of this volume. Terawatt class lasers are now available in the UV or at high repetition rates. Michael Perry LLNL presented a keynote talk on petawatt class lasers and their applications in inertial confinement fusion while Jorge Rocca Colorado State University presented a keynote talk on tabletop soft x-ray lasers. Generation and measurement techniques are becoming very sophisticated throughout the UV and x-ray region of the spectrum and coherent sources have been extended to wavelengths below 30 Å. Phase control in the x-ray region is also now possible and new phase matching schemes in the UV have been experimentally demonstrated. It is clear that a new field of x-ray nonlinear optics will develop rapidly over the next few years.

Latest Advances In Atomic Clusters Collisions: Fission, Fusion, Electron, Ion And Photon Impact Jean-patrick Connerade, Andrey Solov'yov, 2004-11-24. This comprehensive volume surveys the general aspects of atomic cluster science and outlines some of its important new challenges. It begins by detailing the recent advances in the understanding of structure and the essential properties of selected atomic cluster systems: fullerenes and confined atoms. Recent advances in the field of photo processes involving atomic clusters and fullerenes are discussed and an entire chapter is devoted to the problem of fission dynamics of atomic clusters presenting parallels with similar processes in nuclear physics. The book goes on to describe the problems of electron cluster collisions with special emphasis on polarization and collective excitation effects. The important area of the behavior of atomic clusters in laser fields is considered: the ionization collective dynamics of electrons in the system in the presence of the laser field and the laser induced dynamics of molecules and clusters are thoroughly described. Finally a broad spectrum of problems in the area of ionic collisions with fullerenes and metal clusters is covered from both experimental and theoretical points of view and the results of the most recent measurements are reported. The concluding chapter takes a careful look at the interaction of an atomic cluster with a surface. The problems of cluster deposition and formation at a surface as well as collision processes involving clusters deposited at a surface are considered through a number of illustrative examples. **Quantum Phenomena in Clusters and Nanostructures** Shiv N.

Khanna, Albert W. Castleman, 2013-03-09. Clusters and nanoscale materials give rise to properties and behaviour that are governed by size restrictions and hence display features directly attributable to quantum confinement. Thus they represent ideal media for observing and studying quantum phenomena. This book presents and evaluates some of the latest developments in this area of basic research. Each of the chapters focuses on selected aspects of the field and the authors endeavour to display the breadth of the subject by presenting some of the important recent advances that have been made.

through the use of new experimental techniques and theoretical approaches Molecules in Electromagnetic Fields Roman V. Krems, 2018-05-21 A tutorial for calculating the response of molecules to electric and magnetic fields with examples from research in ultracold physics controlled chemistry and molecular collisions in fields Molecules in Electromagnetic Fields is intended to serve as a tutorial for students beginning research theoretical or experimental in an area related to molecular physics The author a noted expert in the field offers a systematic discussion of the effects of static and dynamic electric and magnetic fields on the rotational fine and hyperfine structure of molecules The book illustrates how the concepts developed in ultracold physics research have led to what may be the beginning of controlled chemistry in the fully quantum regime Offering a glimpse of the current state of the art research this book suggests future research avenues for ultracold chemistry The text describes theories needed to understand recent exciting developments in the research on trapping molecules guiding molecular beams laser control of molecular rotations and external field control of microscopic intermolecular interactions In addition the author presents the description of scattering theory for molecules in electromagnetic fields and offers practical advice for students working on various aspects of molecular interactions This important text Offers information on the effects of electromagnetic fields on the structure of molecular energy levels Includes thorough descriptions of the most useful theories for ultracold molecule researchers Presents a wealth of illustrative examples from recent experimental and theoretical work Contains helpful exercises that help to reinforce concepts presented throughout text Written for senior undergraduate and graduate students professors researchers physicists physical chemists and chemical physicists Molecules in Electromagnetic Fields is an interdisciplinary text describing theories and examples from the core of contemporary molecular physics **Advances in Multi-photon Processes and Spectroscopy** S. H. Lin, Yuichi Fujimura, A. A. Villaeys, 2003 Annotation Advances in Multi Photon Processes and Spectroscopy Volume 15 Contains review papers for active researchers in the area and those intending to enter the field **Advances in Atomic, Molecular, and Optical Physics** , 2005-05-10 This series established in 1965 is concerned with recent developments in the general area of atomic molecular and optical physics The field is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts who are active in their research fields The articles contain both relevant review material and detailed descriptions of important recent developments Reviews timely fields of atomic physics Articles written by world leaders in those fields In depth review of the subject with relevant literature Suitable for researchers in other fields Only book series of this kind *Advances In Multi-photon Processes And Spectroscopy, Vol 15* Sheng-hsien Lin, Albert A Villaeys, Yuichi Fujimura, 2003-02-21 In view of the rapid growth in both experimental and theoretical studies of multi photon processes and multi photon spectroscopy of atoms ions and molecules in chemistry physics biology materials science etc it is desirable to publish an advanced series of volumes containing review

papers that can be read not only by active researchers in these areas but also by those who are not experts but who intend to enter the field The present series aims to serve this purpose Each review article is written in a self contained manner by the expert s in the area so that the reader can grasp the knowledge without too much preparation

India in the World of Physics Asoke Nath Mitra, 2009 Contributed articles Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 The field of nanoscience was pioneered in the 1980s with the groundbreaking research on clusters which later led to the discovery of fullerenes Handbook of Nanophysics Clusters and Fullerenes focuses on the fundamental physics of these nanoscale materials and structures Each peer reviewed chapter contains a broad based introduction and enhances

Strong Field Laser Physics Thomas Brabec, 2008-09-10 Due to the rapid progress in laser technology a wealth of novel fundamental and applied applications of lasers in atomic and plasma physics have become possible This book focuses on the interaction of high intensity lasers with matter It reviews the state of the art of high power laser sources intensity laser atom and laser plasma interactions laser matter interaction at relativistic intensities and QED with intense lasers

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

Progress in Ultrafast Intense Laser Science XIII Kaoru Yamanouchi, Wendell T. Hill III, Gerhard G. Paulus, 2017-12-22 This thirteenth volume in the PUILS series covers a broad range of topics from this interdisciplinary research field focusing on atoms molecules and clusters interacting in intense laser field and high order harmonics generation and their applications The series delivers up to date reviews of progress in ultrafast intense laser science the interdisciplinary research field spanning atomic and molecular physics molecular science and optical science which has been stimulated by the developments in ultrafast laser technologies Each volume compiles peer reviewed articles authored by researchers at the forefront of each their own subfields of UILS Typically each chapter opens with an overview of the topics to be discussed so that researchers unfamiliar to the subfield as well as graduate students can grasp the importance and attractions of the research topic at hand these are followed by reports of cutting edge discoveries

Advances In Multi-photon Processes And Spectroscopy, Vol 17

Sheng-hsien Lin, Albert A Villaeys, Yuichi Fujimura, 2006-04-19 Among others chemistry physics biology and material sciences have seen a rapid growth in both experimental and theoretical studies of multi photon processes and spectroscopy of atoms ions and molecules This book is an important addition to an advanced series that contains review papers readable not only by active researchers in these areas but also by those who are intending to enter the field Written by experts in the area the reviews are self contained to allow readers to grasp the key concepts without much preparation This volume will be useful to active researchers as well as to scientists in biology chemistry material sciences and physics

Molecules And Clusters In Intense Laser Fields Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Molecules And Clusters In Intense Laser Fields**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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