

Theoretical Femtosecond Physics Atoms And Molecules In Strong Laser Fields Graduate Texts In Physics

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Theoretical Femtosecond Physics Atoms And

1. Introduction1.1.. Scope of the paperThe aim of this article is to introduce, discuss and review the main aspects of femtosecond laser filamentation in various transparent nonlinear and dispersive media. In this review, we do not consider relativistic filamentation, corresponding to the propagation of a very intense ($I > 10^{17}$ W / cm²) laser pulse in a fully ionized medium where

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electrons ...

Femtosecond filamentation in transparent media - ScienceDirect

Condensed Matter physicists study how matter arises from a large number of interacting atoms and electrons, and what physical properties it has as a result of these interactions. ... We use femtosecond optics and electron spectroscopic tools for the study of the electronic structure, magnetic structure, and phase transitions of novel materials ...

Condensed Matter Physics - University of Colorado Boulder

Journal of Physics B: Atomic, Molecular and Optical Physics covers the study of atoms, ions, molecules and clusters, and their structure and interactions with particles, ... 1988-present Journal of Physics B: Atomic, Molecular and Optical Physics doi: 10.1088/issn.0953-4075 Online ISSN: 0953-4075 Print ISSN: 0953-4075; Journal history ...

Journal of Physics B: Atomic, Molecular and Optical Physics - IOPscience

He is a theoretical condensed matter physicist with more than 20 years of research experience, aiming at understanding experiments and making experimental predictions, in various areas revolving ...

Calls for Papers | Scientific Reports

Crystallography is the experimental science of determining the arrangement of atoms in crystalline solids (see crystal structure).The word "crystallography" is derived from the Greek words crystallon "cold drop, frozen drop", with its meaning extending to all solids with some degree of transparency, and graphein "to write". In July 2012, the United Nations recognised the importance of the ...

Crystallography - Wikipedia

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Ionization, or Ionisation is the process by which an atom or a molecule acquires a negative or positive charge by gaining or losing electrons, often in conjunction with other chemical changes. The resulting electrically charged atom or molecule is called an ion. Ionization can result from the loss of an electron after collisions with subatomic particles, collisions with other atoms, molecules ...

Ionization - Wikipedia

Topic Scope: JOSA B emphasizes scientific research on the fundamentals of the interaction of light with matter such as quantum optics, nonlinear optics, and laser physics. Topics include atom optics and cold atoms, integrated and fiber optics, metamaterials, nanophotonics, photonic crystals, photorefractive optics and holography, physics of optical materials, spectroscopy, THz optics ...

Journal of the Optical Society of America B - JOSA B

Stimulated Raman scattering (SRS) is an additional and very useful tool to extend the frequency range of fixed-frequency and tunable lasers. Also known as Raman shifting, SRS can be accomplished by focusing a TEM₀₀ laser beam onto a nonlinear medium, such as H₂ (as illustrated in Fig. 8.9), to generate emission at a series of wavelengths above and below the wavelength of the laser pump.

Stimulated Raman Scattering - an overview | ScienceDirect Topics

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The T atoms can reside at the surface in different positions relative to M and X atoms. The most energetically favorable and thermodynamically stable site for these moieties is on the surface of M

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2 C, M 3 C 2, and M 4 C 3 layers, centered above the transition metal atoms of the atomic plane beneath the outer layer [face-centered cubic (fcc ...

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