

Download Molecules And Clusters In Intense Laser Fields

Members. Professor Kaoru Yamanouchi Affiliation: Department of Chemistry, School of Science, The University of Tokyo Office Address: 7-3-1 Hongo, Bunkyo-ku, TokyoCluster, Atoms and molecules are the smallest forms of matter typically encountered under normal conditions and are in that sense the basic building blocks of the material world. There are phenomena, such as lightning and electric discharges of other kinds, that allow free electrons to be observed, but these are exceptional occurrences. Optical tweezers (originally called single-beam gradient force trap) are scientific instruments that use a highly focused laser beam to provide an attractive or repulsive force (typically on the order of pico newtons), depending on the relative refractive index between particle and surrounding medium, to physically hold and move microscopic objects similar to tweezers. REVIEW ARTICLE Principles and applications of compact laser-plasma accelerators Rapid progress in the development of high-intensity laser systems has extended our ability to study light-matter interactions far into the relativistic domain, in which electrons are driven to velocities close to the speed of light. - Molecules And Clusters In Intense Laser Fields