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Atomic And Molecular Nonlinear Optics

The Atomic, Molecular, and Optical Experimental Physics program (AMO ... the effects of electron correlation on structure and dynamics, the nonlinear response of isolated atoms to intense ultra-short ...

Atomic, Molecular and Optical Physics - Experiment

Is it possible to drive nanoparticles to orbit below the light diffraction limit using a Gaussian beam? A recent joint research project reported in Nature Communications says yes.

Scientists achieve ultra-fast optical orbiting of nanoparticles at subdiffraction scale

and light--and how they all interact--during the 52nd Annual Meeting of the American Physical Society Division of Atomic, Molecular and Optical Physics (DAMOP). Held May 31 through June 4 ...

Scientists to present new findings on atoms, molecules, and optics

The ability to turn on and off a physical process with just one photon is a fundamental building block for quantum photonic technologies. Realizing this in a chip-scale architecture is important for ...

Single Photon Switch Advance: "Rydberg States" in Solid State Materials

Starting with a brief review of molecular angular momentum, the text goes on to consider resonant absorption, fluorescence, photodissociation and photoionization, as well as collisions and static ...

Optical Polarization of Molecules

Holographic displays help add a three-dimensional—and thus more life-like—feel to what would otherwise appear as a two-dimensional image. Now, researchers in Japan have tested how this may work on a ...

Single-particle research promises 'new generation' of displays

"Our use of nonlinear optical spectroscopy for molecular analysis opens the door to many improvements within the life sciences from real-time patient monitoring, to dramatic gains in cell biology, and ...

Spectrometer firm Atonarp raises \$50M

Scientists at Weill Cornell Medicine have developed a computational technique that greatly increases the resolution of atomic force microscopy, a specialized type of microscope that "feels" the atoms ...

New super-resolution microscopy method approaches the atomic scale

A new technique increases the resolution of atomic force microscopy, revealing atomic-level details on biological structures under physiological conditions.

New Super-Resolution Atomic Force Microscopy Reveals Atomic-Level Detail

Scientists at Weill Cornell Medicine have developed a computational technique that greatly increases the resolution of atomic force microscopy, a specialized type of microscope that

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"feels" the atoms ...

New computational technique greatly increases the resolution of atomic force microscopy
it is a comprehensive text for the emerging era in atomic, molecular and optical science. Utilising an intuitive and physical approach, the text describes two-level atom transitions, including ...

Atoms and Molecules Interacting with Light

physicist Peter Thirolf said June 3 during an online meeting of the American Physical Society Division of Atomic, Molecular and Optical Physics. But "it's not just about timekeeping."
...

Nuclear clocks could outdo atomic clocks as the most precise timepieces

An introduction to the structure and properties of important current and future materials, including metals, semiconductors, and polymers from an atomic and molecular perspective
... An introduction ...

Materials Science and Engineering

The Russian-American researcher Eugene Demler is to receive the Hamburg Prize for Theoretical Physics 2021. Demler, who has been a physics professor at Harvard University in the USA since 2001 and ...

Quantum researcher Eugene Demler receives Hamburg Prize for Theoretical Physics

The Theoretical Atomic, Molecular, and Optical Physics (TAMOP) program supports theoretical and computational research in all areas of atomic structure, the molecular structure of small molecules, ...

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