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Laser spectroscopy shares a large fraction of this research, and in the last decade numerous books and monographs have been published on this subject. Most of these books and monographs contain the work done in the physics community.

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Laser spectroscopy has become a widely used popular technique in analytical chemistry during the laser decade. Numerous studies have documented the results of the advantages of lasers (low detection limits, for example); however, most of the applications have focused on the use of relatively expensive lasers.

Semiconductor lasers in analytical chemistry - SPIE

Following a brief summary of the present theoretical picture for infrared multiple photon absorption, a number of recent examples of infrared laser-induced unimolecular reactions are discussed. The results for the laser-induced reactions of allene, ethyl vinyl ether and cyclopropane appear to indicate that the vibrational energy deposited by the laser is distributed non-statistically in these molecules.

Applications Of Infrared Lasers To Chemistry - SPIE

Lasers in Analytical Chemistry The following is a summary of the paper presented at a Meeting of the Midlands Region held on November 18th, 1975. Lasers: Their Current and Potential Applications in Analytical

Lasers in Analytical Chemistry - Proceedings of the

Spectroscopy • IR • Raman • Ultrafast (Time Resolved) • More • Photochemistry Study of the dynamics of chemical reactions initiated by the absorption of light

Use of Lasers in Chemistry - Gustavus Adolphus College

Overview Of Laser Applications To Chemistry George, Thomas F. 1978-11-09 00:00:00 This overview addresses three general areas: spectroscopy; molecular interactions and reaction dynamics; interrelation of chemistry and laser development. The various topics and specific chemical examples contained in the overview are by no means exhaustive, but are chosen simply to give the reader a flavor of the role of lasers in chemistry.

Overview Of Laser Applications To Chemistry, Proceedings

Photochemistry and Photobiology: Laser Chemistry Applications Proceedings of the International Conference Held at the University of Alexandria, Egypt: 001

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Semiconductor lasers in analytical chemistry Numerous studies have documented the results of the advantages of lasers (low detection limits, for example); however, most of the applications have focused on the use of relatively expensive lasers.

Semiconductor lasers in analytical chemistry, Proceedings

The laser as a radiation source with temporal and spatial coherence has made a tremendous impact in the different fields of science. As a result, new and exciting research has been developing all over the world. Laser spectroscopy shares a large fraction of this research, and in the last decade

Advances in Laser Chemistry - Proceedings of the

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The chemistry of alkyl - aluminum compounds during laser-assisted chemical vapor deposition (G.S. Higashi). Influence of dilution in nitrogen on the photodissociation processes of silane and disilane at 193 nm.

Beam Processing and Laser Chemistry: Proceedings of

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Lasers from the Ground Up: Lasers in Chemistry

The investigation of UV laser chemistry of dimethylcadmium (DMCd), both adsorbed in UHV on n-type Si(100) with native oxide and in low pressure gas, has been carried out using KrCl and XeCl excimer lasers.

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Laser Technology in Chemistry - Springer

A chemical laser is a laser that obtains its energy from a chemical reaction. Chemical lasers can reach continuous wave output with power reaching to megawatt levels. They are used in industry for cutting and drilling.

Chemical laser - Wikipedia

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Because of their UV wavelengths and high average powers, excimer lasers can be used in a variety of processing applications for microelectronics fabrication. These new applications are based on using the laser light to control or initiate chemical reactions at a gas solid interface. This paper will review a series of such applications.

Excimer laser interface chemistry for microelectronic

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