

## Spectroscopic Ysis Of Chemical Species In Carbon Plasmas Induced By Highpower Ir Co2 Laser

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### Spectroscopic Ysis Of Chemical Species

The industry is on the verge of an infrared (IR) microscopy and spectroscopy revolution fueled by developments in quantum cascade laser (QCL) technology.

### QCL technology poised to transform IR spectroscopy, microscopy

What if we wanted to directly image exoplanets? Currently, we can do it, but only for a very small subset of exoplanets. In particular, the only planets our modern telescopes – both the larger ...

### What Will Our First Image Of "Earth 2.0" Look Like?

Two-step RT-qPCR analysis of expression of 7 drought-related genes in tomato (*Lycopersicon esculentum* Mill.) Two-step RT-qPCR analysis of expression of 7 drought-related genes in tomato (*Lycopersicon* ...

### Application of Molecular Methods and Raman Microscopy/Spectroscopy in Agricultural Sciences and Food Technology

Researchers reporting in ACS Earth and Space Chemistry have analyzed the molecular makeup of fossilized dinosaur eggshells from Mexico, finding nine amino acids and evidence of ancient protein ...

### Digging into the molecules of fossilized dinosaur eggshells

One of the keys to exploiting graphene's enormous potential is the ability to create atomic-scale defects – where carbon atoms in its flat, honeycomb-like structure are rearranged or 'knocked out' – ...

### Structural engineering on the atomic scale

Laser combs, in which the output is divided into a series of discrete frequency lines, are already valuable sources for gas sensing applications and the detection of different species. A project at ...

### NIST laser comb measures primary greenhouse gases

General Chemistry Laboratory I – This course provides an introduction to chemical techniques and laboratory procedures. Topics include qualitative analysis, gas laws, colorimetry, spectroscopy ... of ...

### Chemistry / Biochemistry

the compound  $\text{NH}_4\text{F}$  forms species that dissolve Si and Al at similar rates (31). Etching by  $\text{NH}_4\text{F}$  was used to obtain hierarchical materials with retained framework composition (32). In the present ...

### Time-resolved dissolution elucidates the mechanism of zeolite MFI crystallization

Two postgraduate students of Siberian Federal University completed the double degree programs with foreign partners, defended theses, and received PhD SibFU. The PhD defence of SibFU and UGR in the fie ...

### Siberian Federal University PhD Defence in Spain and Sweden

See allHide authors and affiliations Although oxygen is all around us, it is often surprisingly difficult to use it for selective chemical oxidations ... was shown to react with  $\text{O}_2$  to give a Pt-OOH ...

### A tautomeric ligand enables directed C-H hydroxylation with molecular oxygen

Bonobos, an endangered species of great ape ... stone from an African spurred tortoise named Carol. A spectroscopy scan showing the chemical composition of the bonobo's brain had revealed that ...

### Medical specialists perform risky brain surgery on a Wisconsin bonobo, most related species to humans

But this *Dionysia* species does not ... magnetic resonance (NMR) spectroscopy techniques. "It helped that we knew the majority of the sample was flavone, a chemical that we could buy and compare ...

Alpine plant spins its own flavonoid wool

Previously, Abel Moreno and colleagues reported the micro-architectures of eggshells from several species of dinosaurs ... with Fourier transform infrared spectroscopy (FT-IR), the team found ...

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