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the years 1962-1966, it became apparent that no suitable book existed which correlated and discussed the important vibrations occurring in this region for these molecules.

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1981, 43 (11) , 2675-2678. DOI:

10.1016/0022-1902(81)80597-0. J. LAANE, P. W.

JAGODZINSKI. ChemInform Abstract: LOW-

FREQUENCY VIBRATIONAL SPECTRA OF BROMO- AND

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TRANS EFFECT.

**Low-frequency vibrational spectra of bromo-
and ...**

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Reduce $\Gamma_{3n} = 3A_1 + A_2 + 2B_1 + 3B_2$. $\Gamma_{\text{trans}} = A_1 + B_1 + B_2$. $\Gamma_{\text{rotations}} = A_2 + B_1 + B_2$. $\Gamma_{\text{NMV}} = \Gamma_{3n-6} = 2A_1 + B_2$. NMVs are also identified by frequency numbers: $\nu_1, \nu_2, \nu_3, \dots$. The numbering is often assigned systematically in descending order of the symmetry species and among modes of the same symmetry in descending order of the vibrational frequency.

Advanced Inorganic Chemistry/Normal Modes of Vibration ...

Mixing of the different types of nuclear motion in vibrational combination modes

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requires their strong coupling. The direct measurement of coupling between the high-frequency N-H stretch modes of the organic methylammonium and formamidinium ions and low-frequency Pb-I phonon modes of the inorganic sub-lattice in hybrid organic ...

Vibrational Coupling between Organic and Inorganic ...

The aim of this study was to evaluate if low-frequency, low-magnitude vibrations (LFLM) could enhance chondrogenic differentiation potential of human adipose derived mesenchymal stem cells (hASCs) with

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simultaneous inhibition of their adipogenic properties for biomedical purposes. We developed a prototype device that induces low-magnitude (0.3 g) low-frequency vibrations with the following ...

Low-frequency, low-magnitude vibrations (LFLM) enhances ...

Abstract We have measured the frequency-dependent real index of refraction and extinction coefficient (and hence the complex dielectric function) of a free-standing double-walled carbon nanotube fi...

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Terahertz Time Domain Spectroscopy to Detect Low-Frequency ...

We experimentally observed two low-frequency phonon modes at 0.45 and 0.75 THz for a free-standing double-walled carbon nanotube film of thickness 200 nm by using terahertz time domain spectroscopy. ...

Terahertz Time Domain Spectroscopy to Detect Low-Frequency ...

Our analyses show that the strong defect tolerance in MAPbI₃ is due to the low-frequency phonons contributed by the

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inorganic lattice that are weakly coupled to the organic molecules. In MAPbI₃,...

Low-frequency lattice phonons in halide perovskites ...

molecules, the low-frequency spectral region below 200 cm⁻¹ involves a combination of both intramolecular and external vibrations.^{28,29} For materials that may exist as multiple crystalline polymorphs or pseudo-polymorphs, the low-frequency vibrational modes are particularly useful for the identification and characterization of each crystal form.^{14,18,22}

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SEPTEMBER 2008 - Coherent

Raman spectroscopy (/ ˈ r ɑː m ə n /); (named after Indian physicist C. V. Raman) is a spectroscopic technique typically used to determine vibrational modes of molecules, although rotational and other low-frequency modes of systems may also be observed. Raman spectroscopy is commonly used in chemistry to provide a structural fingerprint by which molecules can be identified.

Raman spectroscopy - Wikipedia

Infrasound, sometimes referred to as low-

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frequency sound, describes sound waves with a frequency below the lower limit of audibility (generally 20 Hz).Hearing becomes gradually less sensitive as frequency decreases, so for humans to perceive infrasound, the sound pressure must be sufficiently high. The ear is the primary organ for sensing low sound, but at higher intensities it is possible to ...

Infrasound - Wikipedia

The low-frequency vibrational fundamentals of D 2h inorganic oxides are readily modeled by heuristic scaling factors at fractions of the

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computational cost compared to explicit anharmonic frequency computations. Oxygen and the other elements in the present study are abundant in geochemical environments and have the potential to aggregate into minerals in planet-forming regions or in the remnants of supernovae.

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