
Molecular Crystals

a practical guide to the design of molecular crystals - multicomponent molecular crystals that will be discussed herein. 2. the nature of the molecular crystal to begin with, it would be useful to summarize the key characteristics of the molecular crystal, as these are the major design considerations for any crystal synthesis.

2.1. crystal packing. **sonofragmentation of molecular crystals** - properties of molecular crystals in comparison with metallic particles (e.g., friability vs malleability, density, tensile strength, figure 1. cross-polarized optical micrographs showing the sonofragmentation of aspirin crystals (a) before sonication, (b) after 1 min of sonication, (c) after 3 min of sonication, and (d) after 10 min of **molecular crystals under pressure - 3dsbiovia** - molecular crystals under pressure application brief. pressure conditions). the compression ratio with increasing pressure is 6.8%, 11.0%, and 4.6% along a-, b-, and c-cell dimensions respectively. the phase transition can then be characterized by a sudden increase in the c-dimension and **engineering molecular crystals: backbreaking, yet gratifying** - passion for molecular crystals and a keen interest in crystal engineering. i am privileged to lead a growing research group at university college london, where we study (among other things) supramolecular structures in molecular crystals, how such crystals form, and how they can be put to good use. **electrodynamic response and stability of molecular crystals** - molecular crystals, we have chosen to examine a series of polyacene crystals, ranging from naphthalene to pentacene. this choice allows us to study the evolution of response properties of molecular crystals and their stability as a function of molecular size and crystal environment. initial crystal structures for each polyacene were **molecular crystals and liquid crystals - vanderbilt** - molecular crystals and liquid crystals publication details, including instructions for authors and subscription information: ... linear or disc-like molecular shape with a rigid core (geometrical anisotropy) incorporation of the two-atom fragment 1 into the rigid core. **molecular orientations in liquid crystals - mdpi** - crystals 2017, 7, 8 2 of 11 in order to lift these limitations, we developed a new projection photopatterning technique for arbitrary two-dimensional lc molecular orientations, which is based on plasmonic metamasks **calculating hugoniots for molecular crystals from first ...** - calculating hugoniots for molecular crystals from first principles ... chemical bonding and the weak inter-molecular attraction, resulting in incorrect equilibrium ... ular interactions present in molecular crystals, the so-called dispersion forces, or vanderwaals' attraction. **molecular crystals and liquid crystals - researchgate** - molecular crystals and liquid crystals publication details, including instructions for authors and subscription information: ... kinetics at the molecular level, including the roles played by ... **activation energy for photoconduction in molecular crystals** - nism of molecular crystals is full of unanswered basic problems such as how to distinguish pc from a coexistent thermal carrier's contribution originating from heating effects involved with irradiation. in this work, the activation energy (e_a) for pc of molecular crystals was found to decrease monotonically with an **exciton-phonon interactions in molecular crystals** - theory of molecular crystals, such as the nature of the complex dielectric function of the exciton-phonon spectral line shapes and their temperature dependence system and thus about its optical properties. or the processes of energy transfer and excitation we consider particularly the interaction of one band **nanoporous molecular crystals - orca** - molecular crystals, a factor that is easily overlooked when examining a static representation of a single crystal xrd structure. it has been established that some crystals adsorb gas reversibly even though they cannot be described as nanoporous because channels of sufficient diameter to allow the unrestricted **epitaxial growth of molecular crystals on van der waals ...** - responds to the molecular length of the c-axis of rubrene. figure 2 a shows a transmission electron microscopy (tem) image and selected area electron diffraction (saed) pattern of the rubrene film grown on an h-bn crystal. for this measurement, we place thin h-bn crystals on a holey tem grid, and then grow the rubrene crystals. **exciton migration in molecular crystals** - exciton migration in molecular crystals 4845 it is this representation of the exciton-phonon hamiltonian which will form the basis of our approach. the operators a_n^+ , a_n create and destroy at lattice site n an excitation described as a "clothed" exciton, i.e., an electronic excitation accompanied by a vibrational

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