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# Quasielastic Neutron Scattering Investigation Diffusive Motions

**quasielastic and inelastic neutron scattering ...** - quasielastic neutron scattering (qens) and inelastic neutron scattering (ins) techniques offer many advantages for the study of the single particle dynamics of water. the main reason is that the total scattering cross section of hydrogen is much larger than that of atoms in silica, composed of oxygen and silicon. **dynamic behavior of hydration water in calcium-silicate ...** - dynamic behavior of hydration water in calcium-silicate-hydrate gel: a quasielastic neutron scattering spectroscopy investigation hua li, 1,2 emiliano fratini,3 wei-shan chiang, piero baglioni,3 eugene mamontov,4 and sow-hsin chen \* 1department of nuclear science and engineering, massachusetts institute of technology, cambridge, massachusetts, usa **dynamics of alkyl chains in monolayer-protected au and ag ...** - quasielastic neutron scattering (qens) provides not only the time scale but also the geometry of motions. recently, we have shown that the dynamics of the alkanethiols on au or ag cluster surfaces can be monitored by neutron scattering.50 at 340 k and above, quasielastic (qe) broadening is observed in the **the proton dynamics in low-concentration zr hydrides ...** - quasielastic (qens) slow neutron scattering are the most powerful methods for a complete investigation of these motions offering simultaneous measurement of both their time and space development. recent results obtained on the h mobility in low concentration zr hydrides are reported here. 1. introduction **quasielastic neutron scattering investigation of motion of ...** - quasielastic neutron scattering investigation of motion of water molecules in n-propyl alcohol-water mixture masaru nakada,1,a kenji maruyama,2 osamu yamamuro,3 and masakatsu misawa4 1graduate school of science and technology, niigata university, niigata 950-2181, japan 2faculty of science, niigata university, niigata 950-2181, japan 3neutron scattering laboratory, institute for solid state ... **quasi-elastic neutron scattering investigation of the ...** - quasi-elastic neutron scattering investigation of the hydrogen surface self-diffusion on polymer electrolyte membrane fuel cell catalyst support **dynamics of pyramidal sih (a = k and rb) investigated with ...** - out by means of quasielastic neutron scattering (qens), which is a powerful tool as it gives access to the relevant time- and length-scales on which the atomic-scale dynamics of hydrogen occur. in addition, the very large incoherent neutron scattering cross section of hydrogen compared to all other nuclei in alkali

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