

dynamic nuclear polarization at 9 t applied to solid state ... - dynamic nuclear polarization (dnp) is a magnetic resonance technique utilized to enhance the polarization of nuclei in samples containing paramagnetic centers. the large electron spin polarization is transferred to the nuclear spin system, by irradiation with microwaves at or near

dynamic nuclear polarization nuclear magnetic resonance in ... - dynamic nuclear polarization nuclear magnetic resonance in ... dynamic nuclear polarization (dnp) increases the nmr signal intensity by orders of magnitude and can be performed in combination with magic angle spinning (mas) for sensitive, high-resolution spectroscopy.

experiment 7: dynamic nmr spectroscopy (dated: april 19, 2010) - experiment 7: dynamic nmr spectroscopy (dated: april 19, 2010) ... in this experiment nuclear magnetic resonance (nmr) method will be used to study molecular dynamics. nmr is the most widely applied magnetic spectroscopy method. ... use of dynamic nmr is to have a sample where the dynamics occurs in the nmr timescale (ms range). this can **dynamic nuclear**

polarization in a magnetic resonance force ... - dynamic nuclear polarization in a magnetic resonance force microscope experiment corinne e. isaac, 1 christine m. gleave, pamela t. nasr, 1 hoang l. nguyen, elizabeth a. curley, 1 jonilyn l. yoder, 1, eric w. moore, y lei chen, 1, z and john a. marohn 1 **dynamic nuclear polarisation**

enhanced solid-state nuclear ... - dynamic nuclear polarisation (dnp) gives large (>100-fold) signal enhancements in solid-state nuclear magnetic resonance (solid-state nmr) spectra . via. the transfer of spin polarisation from unpaired electrons from radicals implanted in the sample. this means that the detailed information about local molecular environment available for **a dynamic nuclear magnetic resonance study of**

fluorine ... - a dynamic nuclear magnetic resonance study of ... the present dynamic nmr study was undertaken to delineate the site exchange scheme responsible for fluorine ex-change in sulfur tetrafluoride, and thus unambiguously de-

... than one resonance in the fast exchange limit have been reported. **dynamic heterogeneity of glassy ionics: results from ...** - dynamic heterogeneity of glassy ionics: results from nuclear magnetic resonance and low-frequency spectral hole burning roland b. f. hmer lehig 07.12.2005 1. introduction 2. ion dynamics studied by nmr 3. nonresonant spectral hole burning in ckn 4. conclusions glass lecture series: prepared for and produced by the **qdplf1xfohdu0djqhwl5hvrqdqfh applications in chemical ...** - dynamic nuclear magnetic

pletely new class of fluctuating or stereochemically non- resonance (d.n.m.r.) spectroscopy involves observing the rigid molecules, i.e. compounds capable of degenerate changes with temperature in n.m.r. spectra and hence intramolecular rearrangements. **including research on dynamic nuclear polarization ...** - solid state nuclear magnetic resonance including research on dynamic nuclear polarization author information pack table of contents. xxx. description impact factor abstracting and indexing editorial board guide for authors p.1 p.1 p.1 p.3 issn: 0926-2040 description. **ieee transactions on terahertz science and technology, vol ...** - index terms "dynamic nuclear polarization (dnp), gyrotron, high power terahertz radiation, nuclear magnetic resonance (nmr), terahertz. i. introduction nuclear magnetic resonance (nmr)

is the preferred spectroscopic approach for the solution of problems in many areas of science, including physics, chemistry, biology, materials science, and ... **review: mr physics for clinicians hyperpolarized 13c ...** - dynamic nuclear polarization (dissolution-dnp), and the impact of the resulting highly nonequilibrium spin states, on the physics of magnetic resonance imaging (mri) detection. the hardware requirements for clinical translation of this technology are also presented. for studies that allow the use of externally administered agents, **hy-**

nuclear magnetic resonance ... - gmwgroup.harvard - nuclear magnetic resonance spectroscopy' structure and dynamic character of allylic grignard reagents * ... the work reported in this paper was initiated in the belief that nuclear magnetic resonance (n.m.r.) spectroscopy offered an especially appropriate, non-destructive ... **fr. 2.-nuclear magnetic resonance spectra of allylmagnesium bromide ... cross-polarization dynamic-angle spinning nuclear magnetic ...** - cross-polarization dynamic-angle spinning nuclear magnetic resonance of quadrupolar nuclei jay h. baltisberger a b d, sheryl l. gann a d, philip j. grandinetti a c d & alexander pines a d a materials sciences division, lawrence berkeley laboratory, berkeley, ca, 94720, usa b department of chemistry, berea college, berea, ky, 40404, usa **a nuclear magnetic resonance investigation of the role of ...** - collections > electronic theses and dissertations > a nuclear magnetic resonance investigation of the role of structure and ... file type: pdf | filesize: 1.1 mb; ... folded three-dimensional objects has yielded to the more sophisticated idea that proteins are better understood as dynamic entities constantly fluctuating about an average ... **review open access - researchgate** - review open access 13c-labeled biochemical probes for the study of cancer metabolism with dynamic nuclear

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