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Chemistry and Physics of Lipids, 51

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(1989) 205--212 205 Elsevier Scientific Publishers Ireland Ltd. Nuclear magnetic resonance studies of polyisoprenols in model membranes Mark J. Knudsen and Frederic A. Troy Department of Biological Chemistry, University of California, School of Medicine, Davis, CA 95616 (U.S.A.) 2H-NMR investigation of polyisoprenols (PIs) in model

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membranes has revealed ...

**Nuclear magnetic resonance studies
of polyisoprenols in ...**

The goal of these experiments was to investigate the relationship of ATP, phosphocreatine (PCr), inorganic phosphate (Pi), monobasic phosphate (H_2PO_4^-), and pH to human muscle

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fatigue. Phosphates and pH were measured in adductor pollicis using ^{31}P nuclear magnetic resonance at 2.0 Tesla.

^{31}P nuclear magnetic resonance studies of high energy ...

Abstracthe NMR studies of 10 5,7-dihydroxyflavonoids are reported

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and the complete assignment of proton and carbon signals is obtained by detailed spectral analysis of ^1H - ^{13}C HETCOR and COLOC (or HMBC) experiments. The proton signals of H-6 and H-8 of (+)-catechin, (-)-epicatechin, dihydroquercetin and dihydromyricetin were reassigned.

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Nuclear magnetic resonance studies of 5,7 ...

Solid-state NMR has been used to study the core-shell structure of nanoparticles composed of a variety of inorganic and carbon-based materials. It has also been used extensively to study the structure and dynamics of ligands or catalytic substrates on the surface of

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nanoparticles.

Solid-state nuclear magnetic resonance studies of ...

Nuclear magnetic resonance techniques provide powerful tools for investigating the elementary properties of quantum solids and fluids at very low temperatures. The characteristic feature

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of the quantum systems is their weak localization with respect to zero-point quantum fluctuations which leads to particle-particle exchange and remarkable ...

Nuclear magnetic resonance studies of tunneling in quantum ...

2.3. Nuclear magnetic resonance (NMR)

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microscopy. All NMR experiments were carried out on a 4.7 T superconducting super wide-bore magnet employing radio frequency (rf) coils with a diameter of 64 mm for the membrane module and 38 mm for the flow cell. ^1H detection (200 MHz) was used with signal resulting almost exclusively from the water content.

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Nuclear magnetic resonance microscopy studies of membrane ...

Nuclear magnetic resonance (NMR) has been used to study homeopathic solutions, showing provocative results. We examined the reproducibility of one of the allegedly positive studies. ^1H NMR spectra were recorded for Sulphur D4,

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diluted and succussed up to D30 (called potentization) at two different frequencies (300 and 500 MHz).

Nuclear magnetic resonance (NMR) studies of homeopathic ...

NUCLEAR MAGNETIC RESONANCE

STUDIES OF LIVING MUSCLE. Science.

1965 Feb 12; 147 (3659):738-739. Fritz

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OG, Jr, Swift TJ. The state of water in polarized and depolarized frog nerves a proton magnetic resonance study.

Biophys J. 1967 Nov; 7 (6):675-687.

[PMC free article] Hansen JR. Pulsed NMR study of water mobility in muscle and brain tissue.

Nuclear Magnetic Resonance

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Transverse Relaxation Times of ...

Technological developments are the driving force behind advances in scientific knowledge. Recent advances in the two analytical platforms of mass spectrometry (MS) and nuclear magnetic resonance (NMR) spectroscopy have driven forward the discipline of metabolomics. In this critical review, an

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introduction to metabolites, metabolomes, metabolomics and the role of MS and NMR spectroscopy will be provided.

Systems level studies of mammalian metabolomes: the roles ...

The application of nuclear magnetic resonance best known to the general

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public is magnetic resonance imaging for medical diagnosis and magnetic resonance microscopy in research settings. However, it is also widely used in biochemical studies, notably in NMR spectroscopy such as proton NMR , carbon-13 NMR , deuterium NMR and phosphorus-31 NMR.

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Nuclear magnetic resonance - Wikipedia

In the application of nuclear magnetic resonance (NMR) techniques to the study of the properties of fluids in porous media, the theoretical studies of Korringa et al. resulted in a model for the relaxation of spin polarization of protons in a hydrogenous fluid in a pore

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of a solid. protons in a hydrogenous fluid
in a pore of a solid.

Pulsed Nuclear Magnetic Resonance Studies of Porosity ...

Nuclear magnetic resonance (NMR) spectroscopy enables determination of membrane protein structures in lipid environments, such as micelles and

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bilayers. This chapter outlines the steps for membrane-protein structure determination using solution NMR with micelle samples, and solid-state NMR with oriented lipid-bilayer samples.

Nuclear Magnetic Resonance Structural Studies of Membrane ...

MRI is a medical application of nuclear

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magnetic resonance (NMR). NMR can also be used for imaging in other NMR applications , such as NMR spectroscopy . While the hazards of ionizing radiation are now well controlled in most medical contexts [citation needed] , an MRI may still be seen as a better choice than a CT scan .

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Abstract. Magnetic Resonance Imaging (MRI) is the most recent imaging modality introduced for the study of the body. The main clinical indications of this technique concern the pathology of the brain and spinal cord. Nevertheless, recent improvements in equipment

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technology have widened the field of applications to other regions of the body such as the chest, abdomen, pelvis, and the musculoskeletal system.

[Nuclear magnetic resonance in the study of pathology of ...

Objectives: Relationships between incident cardiovascular disease and

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lipoprotein subclass measurements by nuclear magnetic resonance spectroscopy were evaluated in the Cardiovascular Health Study (CHS) in a nested case-cohort analysis.

Nuclear magnetic resonance spectroscopy of lipoproteins ...

Nuclear magnetic resonance (NMR),

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selective absorption of very high-frequency radio waves by certain atomic nuclei that are subjected to an appropriately strong stationary magnetic field. This phenomenon was first observed in 1946 by the physicists Felix Bloch and Edward M. Purcell independently of each other.

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Nuclear magnetic resonance | scientific technique | Britannica

Abstract Solid-state nuclear magnetic resonance (NMR) spectroscopy has been employed to characterize a variety of phenomena that are central to the functioning of lithium and lithium-ion batteries.

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Nuclear Magnetic Resonance Studies of Lithium-Ion Battery ...

Nuclear Magnetic Resonance Therapy (NMRT) is gaining as a novel mode of therapy in osteoarthritis. A prospective double blind randomised study of 100 patients was conducted to investigate efficacy of NMRT in the treatment of mild to moderate osteoarthritis (OA) of

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the knee joint.
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