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NMR measurements.
The proton relaxation
rates R_1 and R_2 were
obtained from the
reciprocal ($R = 1 / T$) of
the relaxations times
 T_1 and T_2 measured at
20 MHz on a Bruker
NMS 120 Minispec. The
probe temperature was

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maintained at 4 °C
(better than ± 1 °C)
using a continuous
circulation of non-
protonated cryostatic
fluid.

NMR water proton relaxation in unheated and heated ...

The T_2^* relaxation
time is always shorter
than the T_2 relaxation
time and is typically
milliseconds for water
samples in imaging

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magnets. Is T_1 always longer than T_2 . In NMR systems, the following relation holds absolute true \leq .

Relaxation (NMR) - Wikipedia

These fractions of water are characterized with different nuclear magnetic resonance (NMR) relaxation times and are identified with the different parts of tissue water. The water

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associated with the macromolecules was found to be approximately 8% of the total tissue water and not to exchange rapidly with the rest of the intracellular water.

Nuclear Magnetic Resonance Transverse Relaxation Times of

...

Proton nuclear spin-lattice relaxation times (T1) were measured for

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water in a variety of rat tissues at 13.56 and 100 MHz. The T1 values were found to be longer at the higher frequency.

(PDF) NMR relaxation data of water proton in normal tissues

Highlights. Relaxation times and diffusion of water protons in HA-BDDE hydrogels were measured by NMR.

Longitudinal relaxation

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times (T_1) and diffusion coefficients were very similar for all HA hydrogels.

Transverse relaxation times (T_2) varied significantly between the different hydrogels.

Relaxation and diffusion of water protons in BDDE cross ...

enhances the proton relaxation rates of water, referred to as relaxivity, must be

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sufficient to significantly increase the relaxation rates of the target tissue. The dose of the complex at which such alteration of tissue relaxation rates occurs must of course be nontoxic. As small as 10-20% increases in $1/T_1$ could be detected by NMR imaging.

Paramagnetic Metal Complexes as Water Proton Relaxation ...

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Nuclear Spin
Relaxation. In NMR, a strong magnetic field is used to partially polarize the nuclear spins. Taking protons as the most common example, the excess of proton spin in the direction of the magnetic field constitutes a small net magnetization of the material.

**Nuclear Spin
Relaxation - Georgia**

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State University

Distribution of average
pore sizes Usual 1 D
NMR relaxation 2.
Identification of moving
proton species T 1 -
NMR Spectroscopy MAS
Structure (Surface
fractal, hierarchy of
pores) 4. Progressive
setting of
microstructure Field
cycling relaxometry T
1(ω 0) (pore sizes,
surface area) and
surface dynamics 5.
Water exchange

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...between connected 2D
...Unheated And
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Nuclear magnetic relaxation in cement-based materials

Removal of H₂O is critical when observing samples in 90 or 100% H₂O. The most common method is called excitation sculpting, which can reduce the water signal by up to 10,000 or more. For when labile protons must be

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observed, there is a "flip-back" version that preserves their signal, even when they are exchanging with the suppressed water signal.

Water Suppression | NMR Core Facility

This set of pages originates from Professor Hans Reich (UW-Madison)

"Structure Determination Using Spectroscopic

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Relaxation In
Methods" course
(Chem 605). It
describes Nuclear
Magnetic Resonance
(NMR) in details
relevant to Organic
Chemistry. It also
includes NMR summary
data on coupling
constants and chemical
shift of ^1H , ^{13}C , ^{19}F ,
 ^{31}P , ^{77}Se , ^{11}B .
Spectra (PDF form) of
more than 600
compounds are also ...

NMR Spectroscopy -

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**Department of
Chemistry**

04-02 T1 on the
Microscopic Scale. The
relaxation times of
pure substances, for
instance water, can be
easily explained.. A
living system, however,
contains a large
number of chemical
components, all of
which contribute to the
observed proton
magnetic resonance
signal. These
components possess

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different relaxation times. Thus, the analysis of the observed NMR signal in terms of the ...

04-02 | Relaxation Times and Basic Pulse Sequences ...

1. Phys Med Biol. 1980 Jul;25(4):748-51.

Comparison of NMR water proton T1 relaxation times of rabbit tissues at 24 MHz and 2.5 MHz. Ling CR, Foster MA,

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Hutchison JM.

Unheated And
**Comparison of NMR
water proton T1
relaxation times of**

...

3OD nitromethane was run separately, as the protons exchanged with deuterium in presence of triethylamine. Results Proton Spectra (Table 1). A sample of 0.6 mL of the solvent, containing 1 μ L of TMS, ¹ was first run on

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its own. From this spectrum we determined the chemical shifts of the solvent residual peak² and the water peak.

NMR Chemical Shifts of Trace Impurities: Common Laboratory

...

The chemical shift and NMR spin lattice relaxation time T_1 of various protons of aldehydes are given in Table 2. Table 3 shows

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the dielectric relaxation time of these aldehydes. NMR spin lattice relaxation time T_1 of these compounds have been shown in Table 4. The proton NMR spectrum of benzaldehyde is shown in Table 1. The H_a proton of the $-CHO$ in

Study of NMR spin lattice relaxation of several aldehydes

Because of this

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uniformity, most free water protons have resonance frequencies very near the average Larmor frequency of all such protons. On a properly acquired NMR spectrum this is seen as a narrow Lorentzian line (at 4.8 ppm, 20 C). Bulk water molecules are also relatively far from magnetic field perturbing macromolecules, such that free water protons experience a more

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homogenous magnetic
field, which results in
slower transverse
magnetization
dephasing and a longer
 T_2^* . Conversely ...

Magnetization transfer - Wikipedia

NMR relaxation of
protons in tissues and
other macromolecular
water solutions.

Nuclear magnetic
resonance (NMR)
longitudinal (T_1) and
transverse (T_2)

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relaxation parameters have been evaluated for protein solutions, cellular suspensions and tissues using both data from our laboratory and the extensive literature.

NMR relaxation of protons in tissues and other ...

In the present work, we compared conventional techniques for the analysis of protein aggregates with a

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novel approach that employs the water proton transverse relaxation rate $R_2(1H_2O)$. We explored differences in the sensitivity of conventional techniques, size-exclusion chromatography (SEC), microflow imaging (MFI), and dynamic light ...

**Water Proton NMR:
A Tool for Protein**

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Nmr Water Proton Relaxation In **Aggregation ...**

Water NMR—A Tool Y.
Feng, M. Taraban &
Y.B. Yu (2014) Chem.
Commun. 50, 12120
Shear Modulus G, kPa R
2 (1 H 2 O), s-1 Water
signal carries
information on the
global changes in the
solute—water
molecules interact with
solute molecules and
become sensitive to its
changes, e.g.,
association Water
proton transverse

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**Water NMR for
Protein Aggregation
Characterization
Web**

The LF-NMR relaxation result of Sardine, tuna and mackerel flesh frozen at $-40\text{ }^{\circ}\text{C}$ and stored for 1 day (24 h) has also shown three domains from different pools of protons (i. e. low mobile ...

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ecf8427e.