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Volume 2 Current
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2 By Ivano Bertini
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preferred configuration

and conformation can be

essential to understand

different binding

properties of the isomers

of photo switchable

molecules for example in

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dependent conversion of

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'protein Fold Determined By Paramagnetic Magic Angle

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Pounds Springerlink**

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Paramagnetic Ions And
Molecules Have Been
Exploited Quite Extensively
As Extrinsic Shift And
Relaxation Probes For
Investigating The Structure
And Dynamics Of Biological
Molecules'*

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resonance nmr
spectroscopy of**

*may 29th, 2020 - nuclear
magnetic resonance nmr
spectroscopy provides
information on the structure
and dynamics of
metallobiomolecules at
atomic resolution a range of
metal binding sites in
biomolecules can be'*

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May 4th, 2020 - this book deals with nmr experiments on systems which contain unpaired electrons unpaired electrons disturb the experiment to such an extent that quite different conditions are needed however since we have to live with molecules bearing unpaired electrons we do our best to take advantage from these properly designed nmr experiments in order to learn as much as possible regarding the'

'nmr of paramagnetic molecules

may 21st, 2020 - in a paramagnetic molecule especially if it is not too large large means long r s usually dominates c r ranges from 10^9 s small

protein to 10⁷ s large for
nmr ? s ranges from 10¹³ s
to 10⁸ s but values 10¹³ to
10¹⁰ most feasible for high
resolution nmr thus ? r 1 It It
? s 1 and ? s dominates ? c
for metalloproteins'

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whose research involves
analyzing paramagnetic
pounds'**

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spectroscopy of
paramagnetic iron
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models else vier new york
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and raised in the small town
of adena ohio near wheeling
west virginia in the tristate
region of eastern ohio the
west virginia panhandle and
western pennsylvania'*

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determined by relayed
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p r t the polarization as a
function of position r
inside the domain at time t
and d being the spin
diffusion coefficient for
polymers spin diffusion

**coefficients are usually
around 1 nm² ms⁻¹ 10⁻¹⁵ m² s⁻⁷ p⁰ is the equilibrium
polarization normalized to
p⁰ r¹ in the experiment
carried out without radical
t¹ is the same for all
positions in the domain
which we will''** ¹h nmr of
paramagnetic dy³ plex with dtpa amide
p

May 20th, 2020 - as an effort to search for
paramagnetic probing agents toward
specific substrates 1 h nmr studies were
carried out on the dy³ plex of a chelating
cyclophane derived from dtpa
diethylenetriaminepentaacetate and p
xylylenediamine and the paramagnetic
effects were examined on coexisting d
histidine and histamine the lanthanide
metal plex exhibits well defined

paramagnetic shifts of **"cerm unifi**

April 4th, 2020 - applications
of nmr to paramagnetic
molecules and biomolecules
both in solution and in the
solid state keep growing
both in number and
sophistication they represent
a respectable share of all

nmr activity'

'solid state ^{17}O nmr of paramagnetic coordination compounds

January 3rd, 2017 - nmr signals from paramagnetic substances are generally more difficult to detect than those from diamagnetic compounds this is because the hyperfine interactions between magnetic dipoles of unpaired electrons and atomic nuclei are substantially stronger than the typical nuclear spin interactions such as magnetic shielding nuclear quadrupolar and dipolar couplings etc

"claudio Luchinat
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are the methodological
and theoretical prospects
for**

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especially biomolecules is
a topic of increasing
interest because of the
possibility offered by the
paramagnetic data to
provide long range
structural information on
the overall displacement of
different protein regions
accurate information on
local conformational
details and information on
the presence and amount
of intramolecular mobility
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PROPERTIES OF
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PRESENT AN NMR
APPROACH BASED ON
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RELAXATION
ENHANCEMENT PRE
RELAYED BY SPIN
DIFFUSION SD WHICH
ALLOWS US TO

DETERMINE LENGTHS IN
THE NM ?M RANGE WE
DEMONSTRATE THE
METHOD ON
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POLYMER MIXTURES BY
SELECTIVELY DOPING
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HAS PROVIDED A MEANS
TO STUDY PHENOMENA
DIFFICULT TO OBSERVE
USING OTHER METHODS**

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BETWEEN PROTEINS
ELECTRON SELF
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AND BIOMOLECULE
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presence of nmr is represented by molecules

with unpaired electrons which are called

paramagnetic the presence of unpaired

electrons is at the same time a drawback

information about structure and dynamics

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STATE**

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NMR WHERE
PSEUDOCONTACT SHIFTS
AND PARAMAGNETIC
RELAXATION
ENHANCEMENTS HAVE
BEEN UTILIZED
SUCCESSFULLY FOR
MANY YEARS TO STUDY
BIOMACROMOLECULAR
STRUCTURE AND
INTERACTIONS 35 39
UNTIL QUITE RECENTLY
SOLID STATE NMR
STUDIES OF
PARAMAGNETIC
SYSTEMS HAVE FOCUSED

NEARLY EXCLUSIVELY ON
SMALL INANIC POUNDS 40
53 WITH ONLY A FEW
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MOLECULES WITH
UNPAIRED ELECTRONS
WHICH ARE CALLED
PARAMAGNETIC THE
PRESENCE OF UNPAIRED
ELECTRONS IS AT THE
SAME TIME A DRAWBACK
NEGATIVE EFFECT AND A
PRECIOUS SOURCE OF
INFORMATION ABOUT
STRUCTURE AND
DYNAMICS'**

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Paramagnetic Shifts See For
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