

Ray Dupree

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3992066/publications.pdf>

Version: 2024-02-01

186
papers

7,642
citations

46918

47
h-index

66788

78
g-index

190
all docs

190
docs citations

190
times ranked

4906
citing authors

#	ARTICLE	IF	CITATIONS
1	Folding of xylan onto cellulose fibrils in plant cell walls revealed by solid-state NMR. <i>Nature Communications</i> , 2016, 7, 13902.	5.8	287
2	Negative Thermal Expansion and Phase Transitions in the ZrV ₂ -xPxO ₇ Series. <i>Chemistry of Materials</i> , 1995, 7, 412-417.	3.2	258
3	A multinuclear magnetic resonance study of the structure of hydrous albite glasses. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2925-2935.	1.6	222
4	An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. <i>Nature Plants</i> , 2017, 3, 859-865.	4.7	204
5	NMR investigation of the structure of some bioactive and related glasses. <i>Journal of Non-Crystalline Solids</i> , 1995, 188, 207-219.	1.5	194
6	Determination of the Si-O-Si bond angle distribution in vitreous silica by magic angle spinning NMR. <i>Nature</i> , 1984, 308, 523-525.	13.7	193
7	The structure of soda-silica glasses: A mas NMR study. <i>Journal of Non-Crystalline Solids</i> , 1984, 68, 399-410.	1.5	185
8	Cristobalite in Volcanic Ash of the Soufriere Hills Volcano, Montserrat, British West Indies. <i>Science</i> , 1999, 283, 1142-1145.	6.0	169
9	Combined First-Principles Computational and Experimental Multinuclear Solid-State NMR Investigation of Amino Acids. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6960-6969.	1.1	169
10	Molecular architecture of softwood revealed by solid-state NMR. <i>Nature Communications</i> , 2019, 10, 4978.	5.8	157
11	Structural and electronic transformations of liquid selenium at high temperature and pressure: ASe ⁷⁷ NMR study. <i>Physical Review B</i> , 1980, 22, 2257-2275.	1.1	148
12	NMR determinations of Si O Si bond angle distributions in silica. <i>Journal of Non-Crystalline Solids</i> , 1988, 106, 408-412.	1.5	141
13	A High-Resolution ¹⁷ O and ²⁹ Si NMR Study of Zeolite Siliceous Ferrierite and ab Initio Calculations of NMR Parameters. <i>Journal of the American Chemical Society</i> , 2000, 122, 4948-4958.	6.6	129
14	²³ Na nuclear relaxation in Na ¹² -alumina: Barrier-height distributions and the diffusion process. <i>Physical Review B</i> , 1977, 15, 3442-3454.	1.1	124
15	A MAS-NMR investigation of lithium silicate glasses and glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 1990, 116, 148-160.	1.5	118
16	A study of the structural role of water in hydrous silica glass using cross-polarisation magic angle spinning NMR. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2869-2873.	1.6	116
17	Pressure-induced bond-angle variation in amorphous SiO ₂ . <i>Physical Review B</i> , 1987, 35, 2560-2562.	1.1	116
18	Golgi-localized STELLO proteins regulate the assembly and trafficking of cellulose synthase complexes in Arabidopsis. <i>Nature Communications</i> , 2016, 7, 11656.	5.8	110

#	ARTICLE	IF	CITATIONS
19	Magic angle spinning NMR of alkali phospho-alumino-silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 1989, 112, 111-119.	1.5	107
20	Yttrium-89 magic angle spinning NMR study of rare-earth pyrochlores: paramagnetic shifts in the solid state. <i>Journal of the American Chemical Society</i> , 1990, 112, 4670-4675.	6.6	107
21	The structure of binary alkali silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 1986, 81, 185-200.	1.5	106
22	The interaction between water and aluminosilicate magmas. <i>Chemical Geology</i> , 1992, 96, 399-409.	1.4	100
23	Absence of magnetic pair breaking in Zn-doped YBa ₂ Cu ₃ O ₇ . <i>Physical Review B</i> , 1993, 48, 10646-10649.	1.1	88
24	An MAS NMR study of network - cation coordination in phosphosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 1988, 106, 403-407.	1.5	86
25	Different water solubility mechanisms in hydrous glasses along the Qz-Ab join. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 513-526.	1.6	83
26	Theoretical Investigation of Oxygen-17 NMR Shielding and Electric Field Gradients in Glutamic Acid Polymorphs. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6032-6037.	1.1	83
27	New perspectives on calcium environments in inorganic materials containing calcium—oxygen bonds: A combined computational—experimental ⁴³ Ca NMR approach. <i>Chemical Physics Letters</i> , 2008, 464, 42-48.	1.2	83
28	Experimental and Theoretical ¹⁷ O NMR Study of the Influence of Hydrogen-Bonding on CO and O—H Oxygens in Carboxylic Solids. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1824-1835.	1.1	82
29	Solid-State ¹⁷ O NMR of Amino Acids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9256-9263.	1.2	81
30	¹³ C MAS NMR: A method for studying CO ₂ speciation in glasses. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3879-3884.	1.6	78
31	Probing Heteronuclear ¹⁵ N— ¹⁷ O and ¹³ C— ¹⁷ O Connectivities and Proximities by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 1820-1834.	6.6	76
32	A high-resolution NMR study of the lanthanum-silicon-aluminum-oxygen-nitrogen system. <i>Journal of the American Chemical Society</i> , 1989, 111, 5125-5132.	6.6	75
33	Probing the Molecular Architecture of <i>Arabidopsis thaliana</i> Secondary Cell Walls Using Two- and Three-Dimensional ¹³ C Solid State Nuclear Magnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2015, 54, 2335-2345.	1.2	69
34	High-resolution silicon-29 nuclear magnetic resonance in the Y-Si-O-N system. <i>Journal of the American Chemical Society</i> , 1988, 110, 1083-1087.	6.6	67
35	Quantitative determination of water speciation in aluminosilicate glasses: a comparative NMR and IR spectroscopic study. <i>Chemical Geology</i> , 2001, 174, 195-208.	1.4	67
36	Variations of Titanium Interactions in Solid State NMR Correlations to Local Structure. <i>Journal of Physical Chemistry B</i> , 2002, 106, 13176-13185.	1.2	67

#	ARTICLE	IF	CITATIONS
37	Exchange enhancement of the spin susceptibility of metals. <i>Solid State Communications</i> , 1971, 9, 145-149.	0.9	64
38	Co-ordination of Si atoms in silicon-oxynitrides determined by magic-angle-spinning NMR. <i>Journal of Materials Science Letters</i> , 1985, 4, 393-395.	0.5	62
39	Structural influences on high-resolution yttrium-89 NMR spectra of solids. <i>Chemical Physics Letters</i> , 1988, 148, 41-44.	1.2	62
40	Natural abundance ^{43}Ca solid-state NMR characterisation of hydroxyapatite: identification of the two calcium sites. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 347-350.	1.1	60
41	Solid-State ^{17}O NMR as a Probe for Structural Studies of Proteins in Biomembranes. <i>Journal of the American Chemical Society</i> , 2004, 126, 15320-15321.	6.6	58
42	Solid-state magnesium-25 n.m.r. spectroscopy. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 1483.	2.0	55
43	Structural implications of water dissolution in haplogranitic glasses from NMR spectroscopy: influence of total water content and mixed alkali effect. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2949-2964.	1.6	54
44	A High-Resolution ^{43}Ca Solid-State NMR Study of the Calcium Sites of Hydroxyapatite. <i>Journal of the American Chemical Society</i> , 2008, 130, 2412-2413.	6.6	54
45	Natural abundance ^{43}Ca NMR study of calcium-containing organic solids: A model study for Ca-binding biomaterials. <i>Chemical Physics Letters</i> , 2006, 427, 201-205.	1.2	53
46	An upper bound for the density of states at the yttrium site in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, L847-L852.	1.5	51
47	Symmetry-based recoupling of ^{17}O - ^1H spin pairs in magic-angle spinning NMR. <i>Journal of Magnetic Resonance</i> , 2006, 179, 38-48.	1.2	49
48	A ^{89}Y NMR study of substitution for copper in $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{O}_7$. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 193, 81-89.	0.6	48
49	Observation of NMR of the Formation of Localized Electronic States in an Ionic Liquid Alloy. <i>Physical Review Letters</i> , 1980, 45, 130-133.	2.9	46
50	Determination of titanium NMR parameters of ATiO_3 compounds: correlations with structural distortion. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 15, 231-236.	1.5	46
51	H_2O speciation in float glass and soda lime silica glass. <i>Chemical Geology</i> , 2006, 229, 64-77.	1.4	45
52	The effect of d electrons on crystal field potentials in rare earth metals and dilute alloys. <i>Journal of Physics F: Metal Physics</i> , 1973, 3, 118-124.	1.6	44
53	A spectrometer designed for 6.7 and 14.1T DNP-enhanced solid-state MAS NMR using quasi-optical microwave transmission. <i>Journal of Magnetic Resonance</i> , 2012, 215, 1-9.	1.2	44
54	Structural information about amorphous anodic alumina from ^{27}Al MAS NMR. <i>Philosophical Magazine Letters</i> , 1989, 59, 189-195.	0.5	43

#	ARTICLE	IF	CITATIONS
55	Structural chemistry of anodic alumina. <i>Thin Solid Films</i> , 1989, 173, 209-215.	0.8	41
56	New insights into the bonding arrangements of l- and d-glutamates from solid state ^{17}O NMR. <i>Chemical Physics Letters</i> , 2003, 371, 91-97.	1.2	41
57	Determination of the bond-angle distribution in vitreous B_2O_3 by ^{11}B double rotation (DOR) NMR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2402-2408.	1.4	41
58	Hydrogen Bonding in Alzheimer's Amyloid β Fibrils Probed by ^{15}N ^{17}O REAPDOR Solid State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10289-10292.	7.2	41
59	The electronic properties of small metal particles: the electric polarizability. <i>Journal of Physics C: Solid State Physics</i> , 1972, 5, 408-414.	1.5	40
60	Modulation-aided signal enhancement in the magic angle spinning NMR of spin-5/2 nuclei. <i>Chemical Physics Letters</i> , 2003, 367, 150-156.	1.2	40
61	Water speciation in sodium silicate glasses based on NIR and NMR spectroscopy. <i>Chemical Geology</i> , 2008, 256, 231-241.	1.4	36
62	Two-dimensional ^{43}Ca ^1H correlation solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 35, 32-36.	1.5	34
63	An assessment of the structural models for amorphous SiO_2 using MAS NMR. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1984, 50, L13-L18.	0.6	33
64	Structural Studies of $\text{Zr}_{1-x}\text{Pb}_x\text{O}_7$ Solid Solutions Using ^{31}P and ^{51}V Rotational Echo Double Resonance NMR. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15986-15991.	2.9	33
65	New Limits for Solid-State ^{17}O NMR Spectroscopy: A Complete Resolution of Multiple Oxygen Sites in a Simple Biomolecule. <i>Journal of the American Chemical Society</i> , 2006, 128, 7744-7745.	6.6	31
66	Determination of NMR interaction parameters from double rotation NMR. <i>Journal of Magnetic Resonance</i> , 2007, 188, 246-259.	1.2	31
67	The preparation and optical properties of small silver particles in glass. <i>Physica Status Solidi A</i> , 1972, 11, 695-703.	1.7	30
68	Evidence for Crystalline Electric Field and Spin-Orbit Splittings for Co Impurities in Au. <i>Physical Review Letters</i> , 1977, 38, 612-615.	2.9	30
69	A ^{89}Y NMR study of Pr- and Nd-doped $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 181, 355-362.	0.6	30
70	DNP enhanced NMR using a high-power 94 GHz microwave source: a study of the TEMPOL radical in toluene. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5757.	1.3	30
71	Ultra-high resolution ^{17}O solid-state NMR spectroscopy of biomolecules: A comprehensive spectral analysis of monosodium L-glutamate monohydrate. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12213.	1.3	30
72	^{17}O NMR characterisation of the oxygen sites in the $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{4+2n}$ ($n = 1, 2, 3$) high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 175, 269-278.	0.6	29

#	ARTICLE	IF	CITATIONS
73	Boron environments in Pyrex® glass—a high resolution, Double-Rotation NMR and thermodynamic modelling study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11919.	1.3	29
74	Hemocyanin facilitates lignocellulose digestion by wood-boring marine crustaceans. <i>Nature Communications</i> , 2018, 9, 5125.	5.8	29
75	Importance of Water in Maintaining Softwood Secondary Cell Wall Nanostructure. <i>Biomacromolecules</i> , 2021, 22, 4669-4680.	2.6	29
76	The use of magic-angle-spinning NMR in structural studies of Si-Al-O-N phases. <i>Journal of Materials Science Letters</i> , 1984, 3, 469-470.	0.5	28
77	Comment on “A model for H ₂ O solubility mechanisms in albite melts from infrared spectroscopy and molecular orbital calculations” by D. Sykes and J. D. Kubicki. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1377-1380.	1.6	28
78	Structural implications of water and boron dissolution in albite glass. <i>Journal of Non-Crystalline Solids</i> , 2004, 337, 207-219.	1.5	28
79	Gyrotron FU CW VII for 300 MHz and 600 MHz DNP-NMR Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010, 31, 763-774.	1.2	28
80	Cation substitution in ¹²⁵ I-tricalcium phosphate investigated using multi-nuclear, solid-state NMR. <i>Journal of Solid State Chemistry</i> , 2014, 212, 227-236.	1.4	28
81	Enhancing resolution and sensitivity of ¹⁷ O solid-state NMR through combining double rotation, ¹ H decoupling and satellite modulation for biomolecular applications. <i>Chemical Physics Letters</i> , 2006, 421, 42-46.	1.2	27
82	Determination of the temperature dependence of the dynamic nuclear polarisation enhancement of water protons at 3.4 Tesla. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4372.	1.3	27
83	Fluorine speciation as a function of composition in peralkaline and peraluminous Na ₂ O–CaO–Al ₂ O ₃ –SiO ₂ glasses: A multinuclear NMR study. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 151-169.	1.6	27
84	NMR evidence for fluctuating, localised magnetic fields in zinc-doped YBa ₂ Cu ₃ O _{7-δ} . <i>Physica C: Superconductivity and Its Applications</i> , 1989, 161, 9-12.	0.6	26
85	Structural properties of multi-component silicon oxycarbide glasses derived from metal alkoxide precursors. <i>Journal of Non-Crystalline Solids</i> , 1996, 204, 217-227.	1.5	26
86	Gap anisotropy, spin fluctuations, and normal-state properties of the electron-doped superconductor Sr _{0.9} La _{0.1} CuO ₂ . <i>Physical Review B</i> , 2002, 65, .	1.1	26
87	A MAS NMR structural study of cadmium phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2002, 298, 32-42.	1.5	26
88	²⁷ Al double rotation two-dimensional spin diffusion NMR: Complete unambiguous assignment of aluminium sites in 9Al ₂ O ₃ ·2B ₂ O ₃ . <i>Chemical Physics Letters</i> , 2006, 432, 152-156.	1.2	26
89	⁷⁷ Se NMR study of the electronic instability in TiSe ₂ . <i>Physical Review B</i> , 1977, 16, 1001-1007.	1.1	25
90	Dynamic Nuclear Polarization enhanced NMR at 187 GHz/284 MHz using an Extended Interaction Klystron amplifier. <i>Journal of Magnetic Resonance</i> , 2016, 265, 77-82.	1.2	25

#	ARTICLE	IF	CITATIONS
91	Crystalline electric fields of rare-earth ions in metals I. Theory. Journal of Physics F: Metal Physics, 1971, 1, 539-548.	1.6	24
92	N.M.R. study of changes in bonding and the metal-non-metal transition in liquid caesium-antimony alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1982, 46, 595-606.	0.6	24
93	A first-principles computational ^{17}O NMR investigation of metal ion- ^{17}O interactions in carboxylate oxygens of alkali oxalates. Chemical Physics, 2007, 337, 144-150.	0.9	24
94	An Ab Initio Quantum Chemical Investigation of ^{43}Ca NMR Interaction Parameters for the Ca^{2+} Sites in Organic Complexes and in Metalloproteins. Journal of Physical Chemistry A, 2008, 112, 9807-9813.	1.1	24
95	Conduction electron spin resonance in liquid and solid sodium. Philosophical Magazine and Journal, 1970, 21, 787-802.	1.8	23
96	^{15}N MAS NMR in the YSiAlON system. Materials Letters, 1991, 11, 195-198.	1.3	23
97	Application of amplitude-modulated radiofrequency fields to the magic-angle spinning NMR of spin-nuclei. Journal of Magnetic Resonance, 2003, 163, 310-317.	1.2	23
98	Thermometers for low temperature Magic Angle Spinning NMR. Journal of Magnetic Resonance, 2010, 204, 169-172.	1.2	23
99	Golgi-localized putative S-adenosyl methionine transporters required for plant cell wall polysaccharide methylation. Nature Plants, 2022, 8, 656-669.	4.7	23
100	Magnetic Susceptibility of the Noble Metals around Their Melting Points. Physical Review B, 1973, 8, 1780-1782.	1.1	22
101	NMR studies of the leucite analogues $\text{X}_2\text{YSi}_5\text{O}_{12}$, where X= K, Rb, Cs; Y = Mg, Zn, Cd. Physics and Chemistry of Minerals, 1994, 21, 176-190.	0.3	22
102	A ^{125}Te and ^{23}Na NMR investigation of the structure and crystallisation of sodium tellurite glasses. Solid State Nuclear Magnetic Resonance, 2005, 27, 16-27.	1.5	22
103	Solid-state ^{17}O NMR spectroscopy of a phospholemman transmembrane domain protein: Implications for the limits of detecting dilute ^{17}O sites in biomaterials. Solid State Nuclear Magnetic Resonance, 2008, 33, 72-75.	1.5	22
104	Effect of electron correlation on the magnetic properties of expanded liquid sodium. Journal of Physics F: Metal Physics, 1983, 13, L173-L178.	1.6	21
105	NMR evidence for common magnetic behaviour in $\text{YBa}_2\text{Cu}_4\text{O}_8$ and $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Physica C: Superconductivity and Its Applications, 1991, 179, 311-316.	0.6	21
106	An NMR study of structure and ordering in synthetic $\text{K}_2\text{MgSi}_5\text{O}_{12}$, a leucite analogue. Physics and Chemistry of Minerals, 1991, 18, 144-152.	0.3	21
107	Structural role of zirconium in $\text{SiO}_2\text{-ZrO}_2$ gels: evidence from ^{17}O NMR. Journal of Materials Chemistry, 1995, 5, 1261-1263.	6.7	21
108	^{29}Si T1 relaxation in alkali silicate glasses: a method for detecting glass-in-glass phase separation. Journal of Non-Crystalline Solids, 2001, 281, 108-116.	1.5	21

#	ARTICLE	IF	CITATIONS
109	Solid-state ^{31}P CP/MAS and static ^{65}Cu NMR characterization of polycrystalline copper(I) dialkyldithiophosphate clusters. <i>Journal of Magnetic Resonance</i> , 2006, 179, 140-145.	1.2	21
110	Separation of isotropic chemical and second-order quadrupolar shifts by multiple-quantum double rotation NMR. <i>Journal of Magnetic Resonance</i> , 2009, 197, 229-236.	1.2	21
111	High-resolution solid state NMR experiments for the characterization of calcium phosphate biomaterials and biominerals. <i>Journal of Materials Research</i> , 2011, 26, 2355-2368.	1.2	21
112	Spectral assignments and NMR parameter-structure relationships in borates using high-resolution ^{11}B NMR and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8208.	1.3	20
113	Theory of the magnetic susceptibility of liquid metal alloys: Noble metal-tin systems. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1975, 20, 275-279.	1.9	19
114	Structure and degradation of tyranno fibres. <i>Materials Letters</i> , 1989, 8, 263-268.	1.3	19
115	Anomalous temperature dependence of the static spin susceptibility of $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ ($T_c \approx 125$ K) in the normal state. <i>Physical Review B</i> , 1993, 47, 11529-11532.	1.1	19
116	^{63}Cu NMR shift and relaxation behavior in $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ ($T_c=125\text{K}$). <i>Physica C: Superconductivity and Its Applications</i> , 1994, 226, 106-112.	0.6	19
117	The effect of Ca substitution in $\text{YBa}_2\text{Cu}_3\text{O}_7$ a ^{89}Y NMR study. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 247, 1-6.	0.6	19
118	$\text{H}_2\text{O}/\text{OH}$ ratio determination in hydrous aluminosilicate glasses by static proton NMR and the effect of chemical shift anisotropy. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 15, 201-207.	1.5	19
119	^{17}O satellite transition spectroscopy of amorphous SiO_2 . <i>Journal of Non-Crystalline Solids</i> , 1993, 155, 95-98.	1.5	17
120	Formation of $\{\text{Cu}_6[\text{S}_2\text{P}(\text{OC}_2\text{H}_5)_2]_6\}$ on Cu_2S Surfaces from Aqueous Solutions of the $\text{KS}_2\text{P}(\text{OC}_2\text{H}_5)_2$ Collector: A Scanning Electron Microscopy and Solid-State ^{31}P Cross-Polarization/Magic Angle Spinning and Static ^{65}Cu NMR Studies. <i>Langmuir</i> , 2005, 21, 4420-4424.	1.6	17
121	Spin lattice relaxation in liquid and solid potassium. <i>Philosophical Magazine and Journal</i> , 1970, 22, 657-662.	1.8	16
122	NMR studies of lithium iodide based solid electrolytes. <i>Solid State Ionics</i> , 1983, 9-10, 131-133.	1.3	16
123	High-resolution ^{17}O double-rotation NMR characterization of ring and non-ring oxygen in vitreous B_2O_3 . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7061.	1.3	16
124	Amyloid Hydrogen Bonding Polymorphism Evaluated by $^{15}\text{N}\{^{17}\text{O}\}$ REAPDOR Solid-State NMR and Ultra-High Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Biochemistry</i> , 2016, 55, 2065-2068.	1.2	16
125	An experimental study of cross polarization from ^1H to ^{27}Al in crystalline and amorphous materials. <i>Applied Magnetic Resonance</i> , 1993, 4, 89-100.	0.6	15
126	The determination of ^{17}O NMR parameters of hydroxyl oxygen: A combined deuteration and DOR approach. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S68-S72.	1.1	15

#	ARTICLE	IF	CITATIONS
127	Melting-induced electron localization:Cs133NMR study of solid and liquid CsAu. Physical Review B, 1985, 31, 5597-5603.	1.1	14
128	NMR Evidence for Common Magnetic Behavior in Double Layered Superconducting Cuprates. Physical Review Letters, 1992, 69, 1256-1259.	2.9	14
129	On the role of transition metal elements as structure-stabilising agents in cuprate superconductors. Solid State Sciences, 1999, 1, 87-95.	0.8	14
130	Investigation of Al-O-Al sites in an Na-aluminosilicate glass. Bulletin of Materials Science, 2004, 27, 269-272.	0.8	14
131	Constraints on the incorporation mechanism of chlorine in peralkaline and peraluminous Na2O-CaO-Al2O3-SiO2 glasses. American Mineralogist, 2014, 99, 1713-1723.	0.9	14
132	Site symmetry in binary and ternary tin silicate glassesâ€”29Si and119Sn nuclear magnetic resonance. Journal of Physics Condensed Matter, 2003, 15, S2457-S2472.	0.7	13
133	Microscopic evidence for co-ionic conductivity in (Na,Li) Î²-alumina. Solid State Communications, 1981, 37, 209-212.	0.9	12
134	Multinuclear magnetic resonance study of Li2Oî¿SiO2 Soliî¿Gel glasses. Magnetic Resonance in Chemistry, 1990, 28, S89-S96.	1.1	12
135	Magic-angle spinning nuclear magnetic resonance study of the structure of some PbO-Al2O3-P2O5 glasses. Solid State Nuclear Magnetic Resonance, 1995, 5, 23-34.	1.5	12
136	Solid-State NMR and EXAFS Spectroscopic Characterization of Polycrystalline Copper(I)O,Oâ€²-Dialkyldithiophosphate Cluster Compounds: Formation of Copper(I)O,Oâ€²-Diisobutyldithiophosphate Compounds on the Surface of Synthetic Chalcocite. Chemistry - A European Journal, 2006, 12, 5282-5292.	1.7	11
137	Copper(I) O , O â€²-dialkyldithiophosphate clusters: EXAFS, NMR and X-ray diffraction studies. Journal of Coordination Chemistry, 2007, 60, 517-525.	0.8	11
138	Spectroscopic characterization of the polycrystalline copper(I) di-n-butyldithiophosphate cluster â€œCu8[S2P(O-n-Bu)2]6(Î¼4-S): Solid-state 31P CP/MAS and static 65Cu NMR studies. Inorganica Chimica Acta, 2006, 359, 3903-3910.	1.2	10
139	Solid-state static 65Cu and 31P CP/MAS NMR, and liquid-state EXAFS studies on copper(I) O,Oâ€²-dialkyldithiophosphate cluster compounds: Formation of the copper(I) O,Oâ€²-di-iso-amyldithiophosphate cluster compound on the surface of synthetic chalcocite. Polyhedron, 2006, 25, 3569-3580.	1.0	10
140	Studies of the effect of paramagnetic impurity in the structure of sodium disilicate glass. Journal of Materials Science, 2000, 35, 2829-2832.	1.7	9
141	A multi-nuclear NMR study of the local structure of lead zirconate titanate, PbZr1âˆ’xTixO3. Journal of Physics Condensed Matter, 2005, 17, 7159-7168.	0.7	9
142	Disproportionation of Qm (OÂˆ%oÂˆmÂˆ%oÂˆ4) species in partially devitrified Li2Si2O5 glasses with small amounts of P2O5. Journal of Materials Science, 2007, 42, 7950-7955.	1.7	9
143	17O NMR of the Bi2Sr2Ca2Cu3O10 high temperature superconductor. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1137-1138.	0.6	8
144	Carrier concentration independent antiferromagnetic spin fluctuations in the electron-doped high-temperature superconducting cupratePr2âˆ’xCexCuO4. Physical Review B, 2004, 69, .	1.1	8

#	ARTICLE	IF	CITATIONS
145	Toward a Structural Model for the Aluminum Tellurite Glass System. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20516-20529.	1.5	8
146	Crystalline electric fields of rare-earth ions in metals II. Comparison with experiment. <i>Journal of Physics F: Metal Physics</i> , 1971, 1, 549-553.	1.6	7
147	Anisotropic exchange contributions to the magnetic susceptibility of transition metal ions in hexagonal close packed metals. <i>Solid State Communications</i> , 1975, 16, 1301-1304.	0.9	7
148	A 3D experiment that provides isotropic homonuclear correlations of half-integer quadrupolar nuclei. <i>Journal of Magnetic Resonance</i> , 2014, 246, 122-129.	1.2	6
149	Synthesis and structural characterisation of solid titanium(^{iv}) phosphate materials by means of X-ray absorption and NMR spectroscopy. <i>Dalton Transactions</i> , 2022, 51, 8192-8207.	1.6	6
150	A ⁸⁹ Y NMR study of YBa ₂ Cu ₄ O ₈ . <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 1219-1220.	0.6	5
151	²⁹ Si and ²⁷ Al MAS NMR spectra are affected by alkali metal cluster formation in zeolite LTA. <i>Chemical Communications</i> , 2000, , 55-56.	2.2	5
152	Lead silicate glass structure: New insights from diffraction and modeling of probable lone pair locations. <i>Journal of the American Ceramic Society</i> , 2022, 105, 938-957.	1.9	5
153	A variable temperature solid-state nuclear magnetic resonance, electron paramagnetic resonance and Raman scattering study of molecular dynamics in ferroelectric fluorides. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 315402.	0.7	4
154	Electron spin scattering by alkali metal impurities in liquid sodium. <i>Philosophical Magazine and Journal</i> , 1971, 23, 29-41.	1.8	3
155	NMR of ⁵⁹ Co in dilute liquid SnCo alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1973, 44, 435-436.	0.9	3
156	²³ Na NMR study of the mobile sodium in Na ¹² gallate. <i>Solid State Ionics</i> , 1983, 9-10, 347-350.	1.3	3
157			

#	ARTICLE	IF	CITATIONS
163	Static and dynamic properties of localized Mn moments in liquid bismuth. Physical Review B, 1979, 19, 4444-4453.	1.1	2
164	The quadrupolar relaxation rate of liquid rubidium. Journal of Physics C: Solid State Physics, 1985, 18, L265-L268.	1.5	2
165	Surface EXAFS and magic angle spinning NMR studies of anodically formed oxide films on aluminium. Surface and Interface Analysis, 1986, 9, 383-383.	0.8	2
166	Signal-to-noise optimization of pulsed NMR experiments on samples with long spin-lattice relaxation times. Journal of Magnetic Resonance, 1987, 75, 153-157.	0.5	2
167	Comparative ^{13}C NMR and NMR studies of the doping effects in $\text{Y}(\text{Ba}_{1-x}\text{La}_x)_2\text{Cu}_3\text{O}_7$. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1723-1724.	0.6	2
168	Peculiar behaviour of the spin susceptibility in $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$. Physica C: Superconductivity and Its Applications, 1999, 317-318, 565-568.	0.6	2
169	Reply to "Comment on "Localized behavior near the Zn impurity in $\text{YBa}_2\text{Cu}_4\text{O}_8$ as measured by nuclear quadrupole resonance". Physical Review B, 2005, 71, .	1.1	2
170	STUDY OF THE RELATIONSHIP BETWEEN STRUCTURE AND O-17 ELECTRIC FIELD GRADIENT PARAMETERS IN SOME ALUMINOSILICATES. Modern Physics Letters B, 2005, 19, 1213-1221.	1.0	2
171	Development of Gyrotron FU CW IIA for 600 MHz and 300 MHz DNP-NMR experiments at the University of Warwick. , 2008, , .		2
172	A neutron diffraction and ^{205}Tl NMR study of the thallium germanate glass system. Journal of Non-Crystalline Solids, 2010, 356, 2517-2523.	1.5	2
173	Structural origin of the weak germanate anomaly in lead germanate glass properties. Journal of the American Ceramic Society, 2022, 105, 1010-1030.	1.9	2
174	A Simple ESR Spectrometer which Uses Sample Heating to Detect Magnetic Resonance. American Journal of Physics, 1970, 38, 924-926.	0.3	1
175	An NMR comparison of some alkali-antimony alloys through the metal-nonmetal transition. Journal of Non-Crystalline Solids, 1984, 61-62, 53-58.	1.5	1
176	NMR study of electron localization in some alkali-antimony alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1986, 53, 247-252.	0.6	1
177	Electron Localization in the Dilute Metal-Molten Salt Solution Na-NaBr^* . Zeitschrift Fur Physikalische Chemie, 1988, 156, 177-182.	1.4	1
178	NMR studies of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. Bulletin of Materials Science, 1991, 14, 619-623.	0.8	1
179	Phenomenological model for the normal state spin susceptibility in high-temperature superconductors. Physica C: Superconductivity and Its Applications, 1993, 208, 328-332.	0.6	1
180	Synthesis, structure and superconducting properties of the $(\text{Hg}_{0.65}\text{V}_{0.35})\text{Sr}_2(\text{Nd}_{1-x}\text{Y}_x)\text{Cu}_2\text{O}_6$ - δ system. Physica C: Superconductivity and Its Applications, 2003, 391, 160-168.	0.6	1

#	ARTICLE	IF	CITATIONS
181	Charge and spin dynamics in the electron-doped high temperature superconducting cuprates. Current Applied Physics, 2004, 4, 280-283.	1.1	1
182	Gyrotrons FU FU CW VII for 600 MHz and 300 MHz DNP-NMR spectroscopy. , 2010, , .		1
183	Vitrification of P^{2-} -tricalcium phosphate in sodium aluminoborophosphate glass and the effect of Ca^{3+} substitution. Journal of Solid State Chemistry, 2015, 231, 175-184.	1.4	1
184	The magnetic susceptibility of single crystals of Zn:Cr. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1981, 103, 200-211.	0.9	0
185	^{63}Cu NMR of Hg-1223 between 100K and 300K. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1673-1674.	0.6	0
186	NMR and NQR studies of impurities in high-temperature superconducting cuprates. Physica B: Condensed Matter, 2000, 281-282, 912-913.	1.3	0