Ray Dupree

List of Publications by Year in descending order

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186 papers	7,642 citations	47006 47 h-index	78 g-index
190	190	190	4906
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Folding of xylan onto cellulose fibrils in plant cell walls revealed by solid-state NMR. Nature Communications, 2016, 7, 13902.	12.8	287
2	Negative Thermal Expansion and Phase Transitions in the ZrV2-xPxO7 Series. Chemistry of Materials, 1995, 7, 412-417.	6.7	258
3	A multinuclear magnetic resonance study of the structure of hydrous albite glasses. Geochimica Et Cosmochimica Acta, 1989, 53, 2925-2935.	3.9	222
4	An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. Nature Plants, 2017, 3, 859-865.	9.3	204
5	NMR investigation of the structure of some bioactive and related glasses. Journal of Non-Crystalline Solids, 1995, 188, 207-219.	3.1	194
6	Determination of the Si–O–Si bond angle distribution in vitreous silica by magic angle spinning NMR. Nature, 1984, 308, 523-525.	27.8	193
7	The structure of soda-silica glasses: A mas NMR study. Journal of Non-Crystalline Solids, 1984, 68, 399-410.	3.1	185
8	Cristobalite in Volcanic Ash of the Soufriere Hills Volcano, Montserrat, British West Indies. Science, 1999, 283, 1142-1145.	12.6	169
9	Combined First-Principles Computational and Experimental Multinuclear Solid-State NMR Investigation of Amino Acids. Journal of Physical Chemistry A, 2005, 109, 6960-6969.	2.5	169
10	Molecular architecture of softwood revealed by solid-state NMR. Nature Communications, 2019, 10, 4978.	12.8	157
11	Structural and electronic transformations of liquid selenium at high temperature and pressure: ASe77NMR study. Physical Review B, 1980, 22, 2257-2275.	3.2	148
12	NMR determinations of Si O Si bond angle distributions in silica. Journal of Non-Crystalline Solids, 1988, 106, 408-412.	3.1	141
13	A High-Resolution 170 and 29Si NMR Study of Zeolite Siliceous Ferrierite and ab Initio Calculations of NMR Parameters. Journal of the American Chemical Society, 2000, 122, 4948-4958.	13.7	129
14	Na23nuclear relaxation in Na \hat{I}^2 -alumina: Barrier-height distributions and the diffusion process. Physical Review B, 1977, 15, 3442-3454.	3.2	124
15	A MAS-NMR investigation of lithium silicate glasses and glass ceramics. Journal of Non-Crystalline Solids, 1990, 116, 148-160.	3.1	118
16	A study of the structural role of water in hydrous silica glass using cross-polarisation magic angle spinning NMR. Geochimica Et Cosmochimica Acta, 1987, 51, 2869-2873.	3.9	116
17	Pressure-induced bond-angle variation in amorphousSiO2. Physical Review B, 1987, 35, 2560-2562.	3.2	116
18	Golgi-localized STELLO proteins regulate the assembly and trafficking of cellulose synthase complexes in Arabidopsis. Nature Communications, 2016, 7, 11656.	12.8	110

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19	Magic angle spinning NMR of alkali phospho-alumino-silicate glasses. Journal of Non-Crystalline Solids, 1989, 112, 111-119.	3.1	107
20	Yttrium-89 magic angle spinning NMR study of rare-earth pyrochlores: paramagnetic shifts in the solid state. Journal of the American Chemical Society, 1990, 112, 4670-4675.	13.7	107
21	The structure of binary alkali silicate glasses. Journal of Non-Crystalline Solids, 1986, 81, 185-200.	3.1	106
22	The interaction between water and aluminosilicate magmas. Chemical Geology, 1992, 96, 399-409.	3.3	100
23	Absence of magnetic pair breaking in Zn-dopedYBa2Cu3O7. Physical Review B, 1993, 48, 10646-10649.	3.2	88
24	An MAS NMR study of network - cation coordination in phosphosilicate glasses. Journal of Non-Crystalline Solids, 1988, 106, 403-407.	3.1	86
25	Different water solubility mechanisms in hydrous glasses along the Qz-Ab join:. Geochimica Et Cosmochimica Acta, 2000, 64, 513-526.	3.9	83
26	Theoretical Investigation of Oxygen-17 NMR Shielding and Electric Field Gradients in Glutamic Acid Polymorphs. Journal of Physical Chemistry A, 2004, 108, 6032-6037.	2.5	83
27	New perspectives on calcium environments in inorganic materials containing calcium–oxygen bonds: A combined computational–experimental 43Ca NMR approach. Chemical Physics Letters, 2008, 464, 42-48.	2.6	83
28	Experimental and Theoretical 170 NMR Study of the Influence of Hydrogen-Bonding on CO and Oâ^'H Oxygens in Carboxylic Solids. Journal of Physical Chemistry A, 2006, 110, 1824-1835.	2.5	82
29	Solid-State170 NMR of Amino Acids. Journal of Physical Chemistry B, 2004, 108, 9256-9263.	2.6	81
30	13C MAS NMR: A method for studying CO2 speciation in glasses. Geochimica Et Cosmochimica Acta, 1991, 55, 3879-3884.	3.9	78
31	Probing Heteronuclear ¹⁵ Nâ^' ¹⁷ O and ¹³ Câ^' ¹⁷ O Connectivities and Proximities by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 1820-1834.	13.7	76
32	A high-resolution NMR study of the lanthanum-silicon-aluminum-oxygen-nitrogen system. Journal of the American Chemical Society, 1989, 111, 5125-5132.	13.7	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. Biochemistry, 2015, 54, 2335-2345.	2.5	69
34	High-resolution silicon-29 nuclear magnetic resonance in the Y-Si-O-N system. Journal of the American Chemical Society, 1988, 110, 1083-1087.	13.7	67
35	Quantitative determination of water speciation in aluminosilicate glasses: a comparative NMR and IR spectroscopic study. Chemical Geology, 2001, 174, 195-208.	3.3	67
36	Variations of Titanium Interactions in Solid State NMRCorrelations to Local Structure. Journal of Physical Chemistry B, 2002, 106, 13176-13185.	2.6	67

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37	Exchange enhancement of the spin susceptibility of metals. Solid State Communications, 1971, 9, 145-149.	1.9	64
38	Co-ordination of Si atoms in silicon-oxynitrides determined by magic-angle-spinning NMR. Journal of Materials Science Letters, 1985, 4, 393-395.	0.5	62
39	Structural influences on high-resolution yttrium-89 NMR spectra of solids. Chemical Physics Letters, 1988, 148, 41-44.	2.6	62
40	Natural abundance ⁴³ Ca solidâ€state NMR characterisation of hydroxyapatite: identification of the two calcium sites. Magnetic Resonance in Chemistry, 2008, 46, 347-350.	1.9	60
41	Solid-State170 NMR as a Probe for Structural Studies of Proteins in Biomembranes. Journal of the American Chemical Society, 2004, 126, 15320-15321.	13.7	58
42	Solid-state magnesium-25 n.m.r. spectroscopy. Journal of the Chemical Society Chemical Communications, 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. Geochimica Et Cosmochimica Acta, 2001, 65, 2949-2964.	3.9	54
44	A High-Resolution ⁴³ Ca Solid-State NMR Study of the Calcium Sites of Hydroxyapatite. Journal of the American Chemical Society, 2008, 130, 2412-2413.	13.7	54
45	Natural abundance 43Ca NMR study of calcium-containing organic solids: A model study for Ca-binding biomaterials. Chemical Physics Letters, 2006, 427, 201-205.	2.6	53
46	An upper bound for the density of states at the yttrium site in YBa2Cu3O7-δ. Journal of Physics C: Solid State Physics, 1988, 21, L847-L852.	1.5	51
47	Symmetry-based recoupling of 170–1H spin pairs in magic-angle spinning NMR. Journal of Magnetic Resonance, 2006, 179, 38-48.	2.1	49
48	A 89Y NMR study of substitution for copper in YBa2(Cu1â^'xMx)3O7. Physica C: Superconductivity and Its Applications, 1992, 193, 81-89.	1.2	48
49	Observation of NMR of the Formation of Localized Electronic States in an Ionic Liquid Alloy. Physical Review Letters, 1980, 45, 130-133.	7.8	46
50	Determination of titanium NMR parameters of ATiO3 compounds: correlations with structural distortion. Solid State Nuclear Magnetic Resonance, 2000, 15, 231-236.	2.3	46
51	H2O speciation in float glass and soda lime silica glass. Chemical Geology, 2006, 229, 64-77.	3.3	45
52	The effect of d electrons on crystal field potentials in rare earth metals and dilute alloys. Journal of Physics F: Metal Physics, 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. Journal of Magnetic Resonance, 2012, 215, 1-9.	2.1	44
54	Structural information about amorphous anodic alumina from ²⁷ Al MAS NMR. Philosophical Magazine Letters, 1989, 59, 189-195.	1.2	43

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55	Structural chemistry of anodic alumina. Thin Solid Films, 1989, 173, 209-215.	1.8	41
56	New insights into the bonding arrangements of l- and d-glutamates from solid state 170 NMR. Chemical Physics Letters, 2003, 371, 91-97.	2.6	41
57	Determination of the bond-angle distribution in vitreous B2O3 by 11B double rotation (DOR) NMR spectroscopy. Journal of Solid State Chemistry, 2009, 182, 2402-2408.	2.9	41
58	Hydrogen Bonding in Alzheimer's Amyloidâ€Î² Fibrils Probed by ¹⁵ N{ ¹⁷ O} REAPDO Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 10289-10292.	OR 13.8	41
59	The electronic properties of small metal particles: the electric polarizability. Journal of Physics C: Solid State Physics, 1972, 5, 408-414.	1.5	40
60	Modulation-aided signal enhancement in the magic angle spinning NMR of spin-5/2 nuclei. Chemical Physics Letters, 2003, 367, 150-156.	2.6	40
61	Water speciation in sodium silicate glasses based on NIR and NMR spectroscopy. Chemical Geology, 2008, 256, 231-241.	3.3	36
62	Two-dimensional 43Ca–1H correlation solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2009, 35, 32-36.	2.3	34
63	An assessment of the structural models for amorphous SiO using MAS NMR. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1984, 50, L13-L18.	0.6	33
64	Structural Studies of ZrV2-xPxO7 Solid Solutions Using 31Pâ^'{51V} and 51Vâ^'{31P} Rotational Echo Double Resonance NMR. The Journal of Physical Chemistry, 1996, 100, 15986-15991.	2.9	33
65	New Limits for Solid-State 170 NMR Spectroscopy: Â Complete Resolution of Multiple Oxygen Sites in a Simple Biomolecule. Journal of the American Chemical Society, 2006, 128, 7744-7745.	13.7	31
66	Determination of NMR interaction parameters from double rotation NMR. Journal of Magnetic Resonance, 2007, 188, 246-259.	2.1	31
67	The preparation and optical properties of small silver particles in glass. Physica Status Solidi A, 1972, 11, 695-703.	1.7	30
68	Evidence for Crystalline Electric Field and Spin-Orbit Splittings for Co Impurities in Au. Physical Review Letters, 1977, 38, 612-615.	7.8	30
69	A 89Y NMR study of Pr- and Nd-doped YBa2Cu3O7. Physica C: Superconductivity and Its Applications, 1991, 181, 355-362.	1.2	30
70	DNP enhanced NMR using a high-power 94 GHz microwave source: a study of the TEMPOL radical in toluene. Physical Chemistry Chemical Physics, 2010, 12, 5757.	2.8	30
71	Ultra-high resolution 17O solid-state NMR spectroscopy of biomolecules: A comprehensive spectral analysis of monosodium L-glutamate·monohydrate. Physical Chemistry Chemical Physics, 2011, 13, 12213.	2.8	30
72	170 NMR characterisation of the oxygen sites in the Bi2Sr2Canâ $^{\circ}$ 1CunO4+2n (n = 1, 2, 3) high temperature superconductors. Physica C: Superconductivity and Its Applications, 1991, 175, 269-278.	1.2	29

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73	Boron environments in Pyrex® glass—a high resolution, Double-Rotation NMR and thermodynamic modelling study. Physical Chemistry Chemical Physics, 2011, 13, 11919.	2.8	29
74	Hemocyanin facilitates lignocellulose digestion by wood-boring marine crustaceans. Nature Communications, 2018, 9, 5125.	12.8	29
75	Importance of Water in Maintaining Softwood Secondary Cell Wall Nanostructure. Biomacromolecules, 2021, 22, 4669-4680.	5.4	29
76	The use of magic-angle-spinning NMR in structural studies of Si-Al-O-N phases. Journal of Materials Science Letters, 1984, 3, 469-470.	0.5	28
77	Comment on "A model for H2O solubility mechanisms in albite melts from infrared spectroscopy and molecular orbital calculations―by D. Sykes and J. D. Kubicki. Geochimica Et Cosmochimica Acta, 1994, 58, 1377-1380.	3.9	28
78	Structural implications of water and boron dissolution in albite glass. Journal of Non-Crystalline Solids, 2004, 337, 207-219.	3.1	28
79	Gyrotron FU CW VII for 300ÂMHz and 600ÂMHz DNP-NMR Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 763-774.	2.2	28
80	Cation substitution in \hat{l}^2 -tricalcium phosphate investigated using multi-nuclear, solid-state NMR. Journal of Solid State Chemistry, 2014, 212, 227-236.	2.9	28
81	Enhancing resolution and sensitivity of 17O solid-state NMR through combining double rotation, 1H decoupling and satellite modulation for biomolecular applications. Chemical Physics Letters, 2006, 421, 42-46.	2.6	27
82	Determination of the temperature dependence of the dynamic nuclear polarisation enhancement of water protons at 3.4 Tesla. Physical Chemistry Chemical Physics, 2011, 13, 4372.	2.8	27
83	Fluorine speciation as a function of composition in peralkaline and peraluminous Na2O–CaO–Al2O3–SiO2 glasses: A multinuclear NMR study. Geochimica Et Cosmochimica Acta, 2014, 132, 151-169.	3.9	27
84	NMR evidence for fluctuating, localised magnetic fields in zinc-doped YBa2Cu3O7â ⁻ δ. Physica C: Superconductivity and Its Applications, 1989, 161, 9-12.	1.2	26
85	Structural properties of multi-component silicon oxycarbide glasses derived from metal alkoxide precursors. Journal of Non-Crystalline Solids, 1996, 204, 217-227.	3.1	26
86	Gap anisotropy, spin fluctuations, and normal-state properties of the electron-doped superconductorSr0.9La0.1CuO2. Physical Review B, 2002, 65, .	3.2	26
87	A MAS NMR structural study of cadmium phosphate glasses. Journal of Non-Crystalline Solids, 2002, 298, 32-42.	3.1	26
88	27Al double rotation two-dimensional spin diffusion NMR: Complete unambiguous assignment of aluminium sites in 9Al2O3·2B2O3. Chemical Physics Letters, 2006, 432, 152-156.	2.6	26
89	Se77NMR study of the electronic instability in TiSe2. Physical Review B, 1977, 16, 1001-1007.	3.2	25
90	Dynamic Nuclear Polarization enhanced NMR at 187 GHz/284 MHz using an Extended Interaction Klystron amplifier. Journal of Magnetic Resonance, 2016, 265, 77-82.	2.1	25

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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 170 NMR investigation of metal ion–oxygen interactions in carboxylate oxygens of alkali oxalates. Chemical Physics, 2007, 337, 144-150.	1.9	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.	2.5	24
95	Conduction electron spin resonance in liquid and solid sodium. Philosophical Magazine and Journal, 1970, 21, 787-802.	1.7	23
96	15N MAS NMR in the YSiAlON system. Materials Letters, 1991, 11, 195-198.	2.6	23
97	Application of amplitude-modulated radiofrequency fields to the magic-angle spinning NMR of spinnuclei. Journal of Magnetic Resonance, 2003, 163, 310-317.	2.1	23
98	Thermometers for low temperature Magic Angle Spinning NMR. Journal of Magnetic Resonance, 2010, 204, 169-172.	2.1	23
99	Golgi-localized putative S-adenosyl methionine transporters required for plant cell wall polysaccharide methylation. Nature Plants, 2022, 8, 656-669.	9.3	23
100	Magnetic Susceptibility of the Noble Metals around Their Melting Points. Physical Review B, 1973, 8, 1780-1782.	3.2	22
101	NMR studies of the leucite analogues X2YSi5O12, where $X = K$, Rb , Cs ; $Y = Mg$, Zn , Cd . Physics and Chemistry of Minerals, 1994, 21, 176-190.	0.8	22
102	A 125Te and 23Na NMR investigation of the structure and crystallisation of sodium tellurite glasses. Solid State Nuclear Magnetic Resonance, 2005, 27, 16-27.	2.3	22
103	Solid-state 170 NMR spectroscopy of a phospholemman transmembrane domain protein: Implications for the limits of detecting dilute 170 sites in biomaterials. Solid State Nuclear Magnetic Resonance, 2008, 33, 72-75.	2.3	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 YBa2Cu4O8 and YBa2Cu3O7â~δ. Physica C: Superconductivity and Its Applications, 1991, 179, 311-316.	1.2	21
106	An NMR study of structure and ordering in synthetic K2MgSi5O12, a leucite analogue. Physics and Chemistry of Minerals, 1991, 18, 144-152.	0.8	21
107	Structural role of zirconium in SiO2–ZrO2gels: evidence from170 NMR. Journal of Materials Chemistry, 1995, 5, 1261-1263.	6.7	21
108	29Si T1 relaxation in alkali silicate glasses: a method for detecting glass-in-glass phase separation. Journal of Non-Crystalline Solids, 2001, 281, 108-116.	3.1	21

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109	Solid-state 31P CP/MAS and static 65Cu NMR characterization of polycrystalline copper(I) dialkyldithiophosphate clusters. Journal of Magnetic Resonance, 2006, 179, 140-145.	2.1	21
110	Separation of isotropic chemical and second-order quadrupolar shifts by multiple-quantum double rotation NMR. Journal of Magnetic Resonance, 2009, 197, 229-236.	2.1	21
111	High-resolution solid state NMR experiments for the characterization of calcium phosphate biomaterials and biominerals. Journal of Materials Research, 2011, 26, 2355-2368.	2.6	21
112	Spectral assignments and NMR parameter–structure relationships in borates using high-resolution 11B NMR and density functional theory. Physical Chemistry Chemical Physics, 2013, 15, 8208.	2.8	20
113	Theory of the magnetic susceptibility of liquid metal alloys: Noble metal-tin systems. Zeitschrift Für Physik B Condensed Matter and Quanta, 1975, 20, 275-279.	1.9	19
114	Structure and degradation of tyranno fibres. Materials Letters, 1989, 8, 263-268.	2.6	19
115	Anomalous temperature dependence of the static spin susceptibility of Tl2Ba2Ca2Cu3O10â^Î (Tc≊125 K) in the normal state. Physical Review B, 1993, 47, 11529-11532.	3.2	19
116	63Cu NMR shift and relaxation behavior in Tl2Ba2Ca2Cu3O10 $\hat{a}^{\hat{l}}$ (Tc=125K). Physica C: Superconductivity and Its Applications, 1994, 226, 106-112.	1.2	19
117	The effect of Ca substitution in YBa2Cu3O7â^'Î^ a 89Y NMR study. Physica C: Superconductivity and Its Applications, 1995, 247, 1-6.	1.2	19
118	H2O/OH ratio determination in hydrous aluminosilicate glasses by static proton NMR and the effect of chemical shift anisotropy. Solid State Nuclear Magnetic Resonance, 2000, 15, 201-207.	2.3	19
119	17O satellite transition spectroscopy of amorphous SiO2. Journal of Non-Crystalline Solids, 1993, 155, 95-98.	3.1	17
120	Formation of {Cu6[S2P(OC2H5)2]6} on Cu2S Surfaces from Aqueous Solutions of the KS2P(OC2H5)2Collector:Â Scanning Electron Microscopy and Solid-State31P Cross-Polarization/Magic Angle Spinning and Static65Cu NMR Studies. Langmuir, 2005, 21, 4420-4424.	3.5	17
121	Spin lattice relaxation in liquid and solid potassium. Philosophical Magazine and Journal, 1970, 22, 657-662.	1.7	16
122	NMR studies of lithium iodide based solid electrolytes. Solid State Ionics, 1983, 9-10, 131-133.	2.7	16
123	High-resolution 170 double-rotation NMR characterization of ring and non-ring oxygen in vitreous B2O3. Physical Chemistry Chemical Physics, 2009, 11, 7061.	2.8	16
124	Amyloid Hydrogen Bonding Polymorphism Evaluated by 15N{17O}REAPDOR Solid-State NMR and Ultra-High Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Biochemistry, 2016, 55, 2065-2068.	2.5	16
125	An experimental study of cross polarization from 1H to 27Al in crystalline and amorphous materials. Applied Magnetic Resonance, 1993, 4, 89-100.	1.2	15
126	The determination of 170 NMR parameters of hydroxyl oxygen: A combined deuteration and DOR approach. Magnetic Resonance in Chemistry, 2007, 45, S68-S72.	1.9	15

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127	Melting-induced electron localization:Cs133NMR study of solid and liquid CsAu. Physical Review B, 1985, 31, 5597-5603.	3.2	14
128	NMR Evidence for Common Magnetic Behavior in Double Layered Superconducting Cuprates. Physical Review Letters, 1992, 69, 1256-1259.	7.8	14
129	On the role of transition metal elements as structure-stabilising agents in cuprate superconductors. Solid State Sciences, 1999, 1, 87-95.	0.7	14
130	Investigation of Al-O-Al sites in an Na-aluminosilicate glass. Bulletin of Materials Science, 2004, 27, 269-272.	1.7	14
131	Constraints on the incorporation mechanism of chlorine in peralkaline and peraluminous Na2O-CaO-Al2O3-SiO2 glasses. American Mineralogist, 2014, 99, 1713-1723.	1.9	14
132	Site symmetry in binary and ternary tin silicate glasses—29Si and119Sn nuclear magnetic resonance. Journal of Physics Condensed Matter, 2003, 15, S2457-S2472.	1.8	13
133	Microscopic evidence for co-ionic conductivity in (Na,Li) \hat{l}^2 -alumina. Solid State Communications, 1981, 37, 209-212.	1.9	12
134	Multinuclear magnetic resonance study of Li2OSiO2 SolGel glasses. Magnetic Resonance in Chemistry, 1990, 28, S89-S96.	1.9	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.	2.3	12
136	Solid-State NMR and EXAFS Spectroscopic Characterization of Polycrystalline Copper(I)O,Oâ \in 2-Dialkyldithiophosphate Cluster Compounds: Formation of Copper(I)O,Oâ \in 2-Diisobutyldithiophosphate Compounds on the Surface of Synthetic Chalcocite. Chemistry - A European Journal, 2006, 12, 5282-5292.	3.3	11
137	Copper(I) O , O $\hat{a} \in ^2$ -dialkyldithiophosphate clusters: EXAFS, NMR and X-ray diffraction studies. Journal of Coordination Chemistry, 2007, 60, 517-525.	2.2	11
138	Spectroscopic characterization of the polycrystalline copper(I) di-n-butyldithiophosphate cluster – Cu8[S2P(O-n-Bu)2]6(μ8-S): Solid-state 31P CP/MAS and static 65Cu NMR studies. Inorganica Chimica Acta, 2006, 359, 3903-3910.	2.4	10
139	Solid-state static 65Cu and 31P CP/MAS NMR, and liquid-state EXAFS studies on copper(I) $O,O\hat{a}\in^2$ -dialkyldithiophosphate cluster compounds: Formation of the copper(I) $O,O\hat{a}\in^2$ -di-iso-amyldithiophosphate cluster compound on the surface of synthetic chalcocite. Polyhedron, 2006, 25, 3569-3580.	2.2	10
140	Studies of the effect of paramagnetic impurity in the structure of sodium disilicate glass. Journal of Materials Science, 2000, 35, 2829-2832.	3.7	9
141	A multi-nuclear NMR study of the local structure of lead zirconate titanate, PbZr1â^'xTixO3. Journal of Physics Condensed Matter, 2005, 17, 7159-7168.	1.8	9
142	Disproportionation of Qm (0Ââ‰ÂmÂâ‰Â4) species in partially devitrified Li2Si2O5 glasses with small amounts of P2O5. Journal of Materials Science, 2007, 42, 7950-7955.	3.7	9
143	170 NMR of the Bi2Sr2Ca2Cu3O10 high temperature superconductor. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1137-1138.	1.2	8
144	Carrier concentration independent antiferromagnetic spin fluctuations in the electron-doped high-temperature superconducting cupratePr2â°'xCexCuO4. Physical Review B, 2004, 69, .	3.2	8

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145	Toward a Structural Model for the Aluminum Tellurite Glass System. Journal of Physical Chemistry C, 2020, 124, 20516-20529.	3.1	8
146	Crystalline electric fields of rare-earth ions in metals II. Comparison with experiment. Journal of Physics F: Metal Physics, 1971, 1, 549-553.	1.6	7
147	Anisotropic exchange contributions to the magnetic susceptibility of transition metal ions in hexagonal close packed metals. Solid State Communications, 1975, 16, 1301-1304.	1.9	7
148	A 3D experiment that provides isotropic homonuclear correlations of half-integer quadrupolar nuclei. Journal of Magnetic Resonance, 2014, 246, 122-129.	2.1	6
149	Synthesis and structural characterisation of solid titanium(<scp>iv</scp>) phosphate materials by means of X-ray absorption and NMR spectroscopy. Dalton Transactions, 2022, 51, 8192-8207.	3.3	6
150	A 89Y NMR study of YBa2Cu4O8. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1219-1220.	1.2	5
151	29Si and 27Al MAS NMR spectra are affected by alkali metal cluster formation in zeolite LTA. Chemical Communications, 2000, , 55-56.	4.1	5
152	Lead silicate glass structure: New insights from diffraction and modeling of probable lone pair locations. Journal of the American Ceramic Society, 2022, 105, 938-957.	3.8	5
153	A variable temperature solid-state nuclear magnetic resonance, electron paramagnetic resonance and Raman scattering study of molecular dynamics in ferroelectric fluorides. Journal of Physics Condensed Matter, 2011, 23, 315402.	1.8	4
154	Electron spin scattering by alkali metal impurities in liquid sodium. Philosophical Magazine and Journal, 1971, 23, 29-41.	1.7	3
155	NMR of 59Co in dilute liquid SnCo alloys. Physics Letters, Section A: General, Atomic and Solid State Physics, 1973, 44, 435-436.	2.1	3
156	23Na NMR study of the mobile sodium in Na \hat{l}^2 gallate. Solid State Ionics, 1983, 9-10, 347-350.	2.7	3
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163	Static and dynamic properties of localized Mn moments in liquid bismuth. Physical Review B, 1979, 19, 4444-4453.	3.2	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.	1.8	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 $\hat{1}$ /4SR and NMR studies of the doping effects in Y(Ba1â^'xLax)2Cu3O7. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1723-1724.	1.2	2
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