David C Apperley

List of Publications by Year
in descending order

203 papers	8,651 citations	47006 47 h-index	58581 82 g-index
210 all docs	210 docs citations	210 times ranked	9637 citing authors

#	Article	IF	Citations
1	Nanostructure of cellulose microfibrils in spruce wood. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1195-203.	7.1	597
2	Poly(ethylene-co-tetrafluoroethylene)-Derived Radiation-Grafted Anion-Exchange Membrane with Properties Specifically Tailored for Application in Metal-Cation-Free Alkaline Polymer Electrolyte Fuel Cells. Chemistry of Materials, 2007, 19, 2686-2693.	6.7	371
3	Structure of Cellulose Microfibrils in Primary Cell Walls from Collenchyma Â Â Â. Plant Physiology, 2012, 161, 465-476.	4.8	268
4	High performance aliphatic-heterocyclic benzyl-quaternary ammonium radiation-grafted anion-exchange membranes. Energy and Environmental Science, 2016, 9, 3724-3735.	30.8	215
5	High Reactivity of Metalâ€“Organic Frameworks under Grinding Conditions: Parallels with Organic Molecular Materials. Angewandte Chemie - International Edition, 2010, 49, 3916-3919.	13.8	183
6	Structural Details of Crystalline Cellulose from Higher Plants. Biomacromolecules, 2004, 5, 1333-1339.	5.4	179
7	Synthesis, Structure, and Reactivity of Anionic sp²â€“sp³ Diboron Compounds: Readily Accessible Boryl Nucleophiles. Chemistry - A European Journal, 2015, 21, 7082-7098.	3.3	175
8	Conformational features of crystal-surface cellulose from higher plants. Plant Journal, 2002, 30, 721-731.	5.7	156
9	Synthesis and Characterization of a Rhodium(I) Ïƒ-Alkane Complex in the Solid State. Science, 2012, 337, 1648-1651.	12.6	131
10	Investigations into the conversion of ethanol into 1,3-butadiene. Catalysis Science and Technology, 2011, 1, 267.	4.1	129
11	Fine structure in cellulose microfibrils: NMR evidence from onion and quince. Plant Journal, 1998, 16, 183-190.	5.7	124
12	Microfibril diameter in celery collenchyma cellulose: X-ray scattering and NMR evidence. Cellulose, 2007, 14, 235-246.	4.9	121
13	Spectroscopic and Structural Characterization of the CyNHC Adduct of B₂pin₂ in Solution and in the Solid State. Journal of Organic Chemistry, 2012, 77, 785-789.	3.2	121
14	Solid state 29Si NMR studies of apatite-type oxide ion conductors. Journal of Materials Chemistry, 2006, 16, 1410.	6.7	118
15	One-pot two-step mechanochemical synthesis: ligand and complex preparation without isolating intermediates. Green Chemistry, 2014, 16, 1374-1382.	9.0	118
16	Structural Studies of the Polymorphs of Carbamazepine, Its Dihydrate, and Two Solvates. Organic Process Research and Development, 2005, 9, 902-910.	2.7	117
17	Direct structure elucidation by powder X-ray diffraction of a metalâ€“organic framework material prepared by solvent-free grinding. Chemical Communications, 2010, 46, 7572.	4.1	107
18	Variability in oxidative degradation of charcoal: Influence of production conditions and environmental exposure. Geochimica Et Cosmochimica Acta, 2011, 75, 2361-2378.	3.9	104

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19	Chain conformation in concentrated pectic gels: evidence from 13C NMR. Carbohydrate Research, 1995, 275, 131-145.	2.3	103
20	Supramolecular organolead(IV) and -tin(IV) systems [(Me3EIV)3MIII(CN)6].infin. (E = Pb or Sn, M = Co or) Tj ETQq0 0 0 rgBT /Overlock 1 Organometallics, 1992, 11, 1718-1726.	2.3	101
21	Effect of Ga incorporation on the structure and Li ion conductivity of La3Zr2Li7O12. Dalton Transactions, 2012, 41, 12048.	3.3	96
22	The Determination of the Crystal Structure of Anhydrous Theophylline by X-ray Powder Diffraction with a Systematic Search Algorithm, Lattice Energy Calculations, and13C and15N Solid-State NMR:Â A Question of Polymorphism in a Given Unit Cell. Journal of Physical Chemistry B, 2001, 105, 5818-5826.	2.6	92
23	Zinc(II) Homogeneous and Heterogeneous Species and Their Application for the Ringâ€Opening Polymerisation of racâ€Lactide. European Journal of Inorganic Chemistry, 2009, 2009, 635-642.	2.0	91
24	The composition of nanoparticulate mackinawite, tetragonal iron(II) monosulfide. Chemical Geology, 2006, 235, 286-298.	3.3	89
25	Sulfathiazole polymorphism studied by magic-angle spinning NMR. Journal of Pharmaceutical Sciences, 1999, 88, 1275-1280.	3.3	83
26	Influence of production variables and starting material on charcoal stable isotopic and molecular characteristics. Geochimica Et Cosmochimica Acta, 2008, 72, 6090-6102.	3.9	83
27	Superbasicity of a Bis-guanidino Compound with a Flexible Linker: A Theoretical and Experimental Study. Journal of the American Chemical Society, 2009, 131, 16858-16868.	13.7	79
28	Thermal conversion of a layered (Mg/Al) double hydroxide to the oxide. Journal of Materials Chemistry, 1995, 5, 323.	6.7	70
29	Investigations into the conversion of ethanol to 1,3-butadiene using MgO:SiO2 supported catalysts. Catalysis Communications, 2014, 49, 25-28.	3.3	70
30	The alkali stability of radiation-grafted anion-exchange membranes containing pendent 1-benzyl-2,3-dimethylimidazolium head-groups. RSC Advances, 2013, 3, 579-587.	3.6	69
31	Conformation and mobility of the arabinan and galactan side-chains of pectin. Phytochemistry, 2005, 66, 1817-1824.	2.9	68
32	A comparison of the molecular weights of polyaniline samples obtained from gel permeation chromatography and solid state 15N n.m.r. spectroscopy. Polymer, 1993, 34, 328-332.	3.8	67
33	Towards organometallic zeolites: Spontaneous self-assembly of Et3SnCN, CuCN and (nBu4N)CN to supramolecular [(nBu4N)(Et3Sn)2Cu(CN)4. Journal of Organometallic Chemistry, 1994, 475, 85-94.	1.8	67
34	NMR study of desmotropy in Irbesartan, a tetrazole-containing pharmaceutical compound. Journal of the Chemical Society Perkin Transactions II, 1998, , 475-482.	0.9	64
35	Effect of oxygen content on the 29Si NMR, Raman spectra and oxide ion conductivity of the apatite series, La8+xSr2â^'x(SiO4)6O2+x/2. Dalton Transactions, 2008, , 5296.	3.3	64
36	Oxyanion doping strategies to enhance the ionic conductivity in Ba₂In₂O₅. Journal of Materials Chemistry, 2011, 21, 874-879.	6.7	63

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37	Characterisation of indomethacin and nifedipine using variable-temperature solid-state NMR. Magnetic Resonance in Chemistry, 2005, 43, 881-892.	1.9	61
38	Direct Observation of Cell Wall Structure in Living Plant Tissues by Solid-State ¹³C NMR Spectroscopy. Plant Physiology, 1990, 92, 61-65.	4.8	59
39	Zinc(II) Silsesquioxane Complexes and Their Application for the Ring-Opening Polymerization ofrac-Lactide. Inorganic Chemistry, 2010, 49, 10232-10234.	4.0	56
40	â^ž3[(CoCp2)âŠ, Fe(Î¼-CNSnMe3NC)3]: A Purely Organometallic Channel Inclusion Compound. Angewandte Chemie International Edition in English, 1995, 34, 1197-1199.	4.4	54
41	Cleavage of Ru3(CO)12 by N-Heterocyclic Carbenes: Isolation of cis- and trans-Ru(NHC)2(CO)3 and Reaction with O2 To Form Ru(NHC)2(CO)2(CO3). Organometallics, 2008, 27, 100-108.	2.3	54
42	Nuclear Magnetic Resonance Studies of Silicon Carbide Polytypes. Journal of the American Ceramic Society, 1991, 74, 777-782.	3.8	52
43	Trivalent lanthanide lacunary phosphomolybdate complexes: a structural and spectroscopic study across the series [Ln(PMo11O39)2]11?. Dalton Transactions, 2005, , 1256.	3.3	52
44	Structure of cellulose-deficient secondary cell walls from the irx3 mutant of Arabidopsis thaliana. Phytochemistry, 2002, 61, 7-14.	2.9	51
45	Efficient, Scalable, and Solvent-free Mechanochemical Synthesis of the OLED Material Alq₃ (q = 8-Hydroxyquinolinate). Crystal Growth and Design, 2012, 12, 5869-5872.	3.0	51
46	Bridging Mï£¿Cl Bonds with Ambiphilic Phosphineâ€“Borane Ligands. Chemistry - an Asian Journal, 2009, 4, 428-435.	3.3	50
47	Structural Features, Phase Relationships and Transformation Behavior of the Polymorphs Iâ^'VI of Phenobarbital. Crystal Growth and Design, 2010, 10, 302-313.	3.0	50
48	The efficiency of charcoal decontamination for radiocarbon dating by three pre-treatments â€“ ABOX, ABA and hypy. Quaternary Geochronology, 2014, 22, 25-32.	1.4	50
49	Kanemite (NaHSi2O5Â·3H2O) and its hydrogen-exchanged form. Journal of Materials Chemistry, 1995, 5, 577-582.	6.7	48
50	Architecture of the organometallic ion exchangers [(Me3SnIV)4MII(CN)6].infin. (M = Fe, Ru, Os): a combined multinuclear solid-state magnetic resonance and infrared/Raman spectroscopic study. Organometallics, 1993, 12, 3232-3240.	2.3	47
51	Polymer-bound osmium oxide catalysts. Journal of Molecular Catalysis A, 1997, 120, 197-205.	4.8	47
52	Chemoenzymatic synthesis of chiral 4,4â€²-bipyridyls and their metalâ€“organic frameworks. Chemical Communications, 2008, , 5538.	4.1	46
53	Tin-chlorine coupling in magic-angle spinning N.M.R. spectra. Molecular Physics, 1989, 68, 1277-1286.	1.7	44
54	Molecular Modeling, Multinuclear NMR, and Diffraction Studies in the Templated Synthesis and Characterization of the Aluminophosphate Molecular Sieve STA-2. Journal of Physical Chemistry C, 2010, 114, 12698-12710.	3.1	44

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55	High-resolution solid-state tin-119 and carbon-13 NMR studies of novel organotin(IV) coordination polymers involving R3Sn and M(CN)m fragments. Organometallics, 1990, 9, 2672-2676.	2.3	43
56	Studies on the Crystallinity of a Pharmaceutical Development Drug Substance. Journal of Pharmaceutical Sciences, 2005, 94, 1321-1335.	3.3	43
57	Synthesis and structural characterisation of the Li ion conducting garnet-related systems, Li6ALa2Nb2O12 (A=Ca, Sr). Solid State Ionics, 2008, 179, 1693-1696.	2.7	42
58	Silicon Doping in Ba₂In₂O₅: Example of a Beneficial Effect of Silicon Incorporation on Oxide Ion/Proton Conductivity. Chemistry of Materials, 2010, 22, 5945-5948.	6.7	42
59	Speciation of chloroindate(iii) ionic liquids. Dalton Transactions, 2010, 39, 8679.	3.3	42
60	Silicoaluminophosphate Molecular Sieves STA-7 and STA-14 and Their Structure-Dependent Catalytic Performance in the Conversion of Methanol to Olefins. Journal of Physical Chemistry C, 2009, 113, 15731-15741.	3.1	41
61	Enhancing the Efficiency of a Dye-Sensitized Solar Cell Based on a Metal Oxide Nanocomposite Gel Polymer Electrolyte. ACS Applied Materials & Interfaces, 2019, 11, 30185-30196.	8.0	41
62	Groth's Original Concomitant Polymorphs Revisited. Crystal Growth and Design, 2005, 5, 2197-2209.	3.0	40
63	Plasma-Enhanced Chemical Vapor Deposition of Organosilicon Materials:Â A Comparison of Hexamethyldisilane and Tetramethylsilane Precursors. Macromolecules, 1996, 29, 1705-1710.	4.8	39
64	Tetravalent Metal Complexation by Keggin and Lacunary Phosphomolybdate Anions. Inorganic Chemistry, 2008, 47, 5787-5798.	4.0	39
65	Group 14 Metal Terminal Phosphides: Correlating Structure with |J_{MP}|. Inorganic Chemistry, 2012, 51, 9403-9415.	4.0	39
66	Identification of the hydrate gel phases present in phosphate-modified calcium aluminate binders. Cement and Concrete Research, 2015, 70, 21-28.	11.0	39
67	Weak Pnictogen Bond with Bismuth: Experimental Evidence Based on Biâ‹¯P Throughâ€Space Coupling. Chemistry - A European Journal, 2019, 25, 4017-4024.	3.3	39
68	Cu(II) homogeneous and heterogeneous catalysts for the asymmetric Henry reaction. Journal of Molecular Catalysis A, 2010, 325, 8-14.	4.8	38
69	Characterisation of Ba(OH)2â€“Na2SO4â€“blast furnace slag cement-like composites for the immobilisation of sulfate bearing nuclear wastes. Cement and Concrete Research, 2014, 66, 64-74.	11.0	38
70	Conformational Polymorphism in Oxybuprocaine Hydrochloride. Crystal Growth and Design, 2008, 8, 44-56.	3.0	37
71	Synthesis of nanoporous aluminosilicate materials and their application as highly selective heterogeneous catalysts for the synthesis of Î²-amino alcohols. Journal of Molecular Catalysis A, 2010, 329, 57-63.	4.8	37
72	Alkaline ionomer with tuneable water uptakes for electrochemical energy technologies. Energy and Environmental Science, 2011, 4, 4925.	30.8	36

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73	Correlations between 27Al magic-angle spinning nuclear magnetic resonance spectra and the coordination geometry of framework aluminates. Solid State Nuclear Magnetic Resonance, 1994, 3, 103-106.	2.3	34
74	A solid-state NMR study of molecular mobility and phase separation in co-spray-dried proteinâ€“sugar particles. European Journal of Pharmaceutical Sciences, 2005, 25, 105-112.	4.0	34
75	Nuclear magnetic resonance investigation of the interaction of water vapor with sildenafil citrate in the solid state. Journal of Pharmaceutical Sciences, 2005, 94, 516-523.	3.3	33
76	Synthesis and characterization of zeotype ANA framework by hydrothermal reaction of natural clinker. Fuel, 2009, 88, 272-281.	6.4	33
77	Crystal Polymorphs of Barbital: News about a Classic Polymorphic System. Molecular Pharmaceutics, 2014, 11, 338-350.	4.6	32
78	Plasma polymerization of tetramethylsilane. Chemistry of Materials, 1993, 5, 1676-1682.	6.7	30
79	New Solvates of an Old Drug Compound (Phenobarbital): Structure and Stability. Journal of Physical Chemistry B, 2014, 118, 3267-3280.	2.6	30
80	Characterization of Two Distinct Amorphous Forms of Valsartan by Solid-State NMR. Molecular Pharmaceutics, 2016, 13, 211-222.	4.6	30
81	Conversion of levulinic acid to levulinate ester biofuels by heterogeneous catalysts in the presence of acetals and ketals. Applied Catalysis B: Environmental, 2021, 293, 120219.	20.2	30
82	The crystal engineering of radiation-sensitive diacetylene cocrystals and salts. Chemical Science, 2020, 11, 8025-8035.	7.4	29
83	Characterization of and Structural Insight into Struvite-K, MgKPO₄Â·6H₂O, an Analogue of Struvite. Inorganic Chemistry, 2021, 60, 195-205.	4.0	29
84	29Si,27Al and15N magic-angle spinning nuclear magnetic resonance study of Oâ€²-sialons and some related phases. Journal of Materials Chemistry, 1992, 2, 433-438.	6.7	28
85	Polymer mobility in cell walls of transgenic tomatoes with reduced polygalacturonase activity. Phytochemistry, 1996, 42, 301-307.	2.9	28
86	Crystal structure of triphenylphosphine sulfide diiodine; the first crystallographically characterised 1â¶1 molecular charge-transfer complex of a tertiary phosphine sulfide with diiodine. Journal of the Chemical Society Dalton Transactions, 1998, , 1289-1292.	1.1	28
87	Exploiting Nonâ€innocent Ligands to Prepare Masked Palladium(0) Complexes. Angewandte Chemie - International Edition, 2010, 49, 7040-7044.	13.8	28
88	Polymer mobility in cell walls of cucumber hypocotyls. Phytochemistry, 1999, 51, 17-22.	2.9	27
89	CP-MAS NMR of highly mobile hydrated biopolymers: polysaccharides of Allium cell walls. Carbohydrate Research, 1996, 288, 15-23.	2.3	27
90	Solid-State199Hg MAS NMR Studies of Mercury(II) Thiocyanate Complexes and Related Compounds. Crystal Structure of Hg(SeCN)2. Inorganic Chemistry, 1998, 37, 1734-1743.	4.0	26

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91	Fluorine-19 solid-state NMR investigation of regiodefective semicrystalline Î±-poly(vinylidenefluoride). Polymer, 2003, 44, 643-651.	3.8	26
92	Synthesis and catalytic activity of nanoporous aluminosilicate materials. Journal of Molecular Catalysis A, 2009, 314, 10-14.	4.8	26
93	CP-MAS NMR of highly mobile hydrated biopolymers: Polysaccharides of Allium cell walls. Carbohydrate Research, 1996, 288, 15-23.	2.3	25
94	NMR characterisation of dynamics in solvates and desolvates of formoterol fumarate. Physical Chemistry Chemical Physics, 2013, 15, 6422.	2.8	25
95	Understanding the structure directing action of copperâ€“polyamine complexes in the direct synthesis of Cu-SAPO-34 and Cu-SAPO-18 catalysts for the selective catalytic reduction of NO with NH3. Microporous and Mesoporous Materials, 2015, 215, 154-167.	4.4	25
96	Characterising the role of water in sildenafil citrate by NMR crystallography. CrystEngComm, 2016, 18, 1054-1063.	2.6	25
97	Quantitative nuclear magnetic resonance analysis of solid formoterol fumarate and its dihydrate. Journal of Pharmaceutical Sciences, 2003, 92, 2487-2494.	3.3	24
98	A comparison of siliceous faujasitic zeolites produced by direct synthesis or by secondary synthesis. The Journal of Physical Chemistry, 1991, 95, 8826-8831.	2.9	23
99	13C-NMR spectra ofLycopodium clavatumsporopollenin and oxidatively polymerised Î²-carotene. Grana, 1996, 35, 125-127.	0.8	23
100	Solid State Dehydration Processes:â€‰ Mechanism of Water Loss from Crystalline Inosine Dihydrate. Journal of Physical Chemistry B, 2005, 109, 5341-5347.	2.6	23
101	High-resolution solid-state 13C and 29Si NMR investigations of the dynamic properties of tetrakis(trimethylsilyl)silane. Journal of the Chemical Society Chemical Communications, 1993, , 251.	2.0	22
102	Unprecedented N-E Bond Cleavage (E=Sn, Pb) by R4N+ Ions (R=nBu, nPr): Formation, Architecture, and Multinuclear Magnetic Resonance Spectroscopy of Novel Supramolecular [(R4N)(Me3E)2M(CN)6â‹…H2O] Assemblies (M=Fe, Co). Chemistry - A European Journal, 1998, 4, 919-926.	3.3	22
103	Spatial relationships between polymers in Sitka spruce: Proton spin-diffusion studies. Holzforschung, 2006, 60, 665-673.	1.9	22
104	Heterogeneous catalysts for the controlled ring-opening polymerisation of rac-lactide and homogeneous silsesquioxane model complexes. Dalton Transactions, 2008, , 3655.	3.3	22
105	NMR crystallography â€” Three polymorphs of phenobarbital. Canadian Journal of Chemistry, 2011, 89, 770-778.	1.1	22
106	Synthesis and characterization of proton conducting oxyanion doped Ba2Sc2O5. Dalton Transactions, 2012, 41, 261-266.	3.3	22
107	Computation of magnetic shielding to simultaneously validate a crystal structure and assign a solid-state NMR spectrum. Journal of Molecular Structure, 2012, 1015, 192-201.	3.6	22
108	Template-Driven Syntheses of Polymeric Metal Cyanides: A Chiral Nanoporous Host for thenBu4N+ Ion. Angewandte Chemie International Edition in English, 1996, 35, 1525-1527.	4.4	21

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109	Novel organotin-functionalized, polymeric transition metal cyanides: From Me3Sn- to Me2Sn(CH2) 3SnMe2 spacers. Journal of Organometallic Chemistry, 1997, 534, 187-194.	1.8	21
110	Solid-state109Ag CP/MAS NMR spectroscopy of some diammine silver(I) complexes. Magnetic Resonance in Chemistry, 2004, 42, 819-826.	1.9	21
111	Solid-state NMR studies of some tin(II) compounds. Solid State Nuclear Magnetic Resonance, 2004, 26, 160-171.	2.3	21
112	Na⁺ mobility in sodium strontium silicate fast ion conductors. Chemical Communications, 2015, 51, 17163-17165.	4.1	21
113	The organometallic double metal cyanide [(Me2Sn)3{Co(CN)6}2Â·6H2O]. A three-dimensional framework of infinite, stapled ribbons. Journal of Organometallic Chemistry, 2000, 604, 34-42.	1.8	20
114	An investigation of the high temperature reaction between the apatiteoxide ion conductor La_{9.33}Si₆O₂₆and NH3. Journal of Materials Chemistry, 2009, 19, 749-754.	6.7	20
115	Self-assembly of [Cu(CN)4]3â^' ions with cationic {Me3Sn}+ or {Me2Sn(CH2)3SnMe2}2+ fragments in the presence of a nBu4N+ template. Journal of Organometallic Chemistry, 2001, 621, 254-260.	1.8	19
116	The effect of uranium oxide additions on the structure of alkali borosilicate glasses. Journal of Non-Crystalline Solids, 2013, 378, 282-289.	3.1	19
117	Nanoporous alumino- and borosilicate-mediated Meinwald rearrangement of epoxides. Applied Catalysis A: General, 2015, 493, 17-24.	4.3	19
118	Oxygenâ€“nitrogen ordering in yttrium nitrogen melilite. Journal of Materials Chemistry, 1996, 6, 1031-1034.	6.7	18
119	Synthesis and Properties of Hydrogen-Free Detonation Diamond. Propellants, Explosives, Pyrotechnics, 2015, 40, 39-45.	1.6	18
120	Tweaking the Charge Transfer: Bonding Analysis of Bismuth(III) Complexes with a Flexidentate Phosphane Ligand. Inorganic Chemistry, 2020, 59, 8916-8924.	4.0	18
121	Motion in solid organotin(IV) coordination polymers: a two-dimensional exchange magic angle spinning 13C NMR study. Journal of the Chemical Society Chemical Communications, 1992, , 740.	2.0	17
122	Structural investigation of YAM-type yttrium silicon oxynitride by 15N magic-angle spinning nuclear magnetic resonance. Journal of Materials Chemistry, 1993, 3, 1005.	6.7	17
123	[(CoCp₂) âŠ, Fe(Î¼â€CNSnMe₃NC)₃]: eine reine Organometallâ€KanaleinschluãŸverbindung. Angewandte Chemie, 1995, 107, 1311-1313.	2.0	17
124	[Ni(CN)2 Â· 2Me3SnCN Â· (nBu4N)OH]: a layered, supramolecular assembly containing the earlier described, macrocyclic building block [{(Me3Sn)2OH}2{Î¼-(NC)2Ni(CN)2}2]2â^'. Inorganic Chemistry Communication, 1998, 1, 346-349.	3.9	17
125	Vibrational, 31P NMR and crystallographic studies of diiodine adducts of some bidentate tertiary phosphine sulfides. Polyhedron, 2001, 20, 1907-1913.	2.2	17
126	Surface analysis of novel hydroxyapatite bioceramics containing titanium(iv) and fluoride. Journal of Materials Chemistry, 2005, 15, 1626.	6.7	17

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127	Dehydrative Etherification Reactions of Glycerol with Alcohols Catalyzed by Recyclable Nanoporous Aluminosilicates: Telescoped Routes to Glyceryl Ethers. ACS Sustainable Chemistry and Engineering, 2016, 4, 835-843.	6.7	17
128	Natural abundance high-resolution solid state 2H NMR spectroscopy. Chemical Physics Letters, 1994, 226, 193-198.	2.6	16
129	The catalytically active conformation of cyclo-[(S)-His-(S)-Phe] as determined by solid state NMR. Tetrahedron: Asymmetry, 1995, 6, 1869-1872.	1.8	16
130	A solid-state NMR study of cellulose degradation. Cellulose, 1996, 3, 77-90.	4.9	16
131	Solid-State199Hg MAS NMR and Vibrational Spectroscopic Studies of Dimercury(I) Compounds. Inorganic Chemistry, 1999, 38, 4956-4962.	4.0	16
132	Concise syntheses of tridentate PNE ligands and their coordination chemistry with palladium(ii) : a solution- and solid-state study. Dalton Transactions, 2006, , 4134.	3.3	16
133	Preparation of high-oxygen-content apatite silicates through Ti-doping: effect of Ti-doping on the oxide ion conductivity. Journal of Materials Chemistry, 2009, 19, 5003.	6.7	16
134	Assessment of oxygen plasma ashing as a pre-treatment for radiocarbon dating. Quaternary Geochronology, 2010, 5, 435-442.	1.4	16
135	Structure Determination from Powder X-ray Diffraction Data of a New Polymorph of a High-Density Organic Hydrate Material, with an Assessment of Hydrogen-Bond Disorder by Rietveld Refinement. Crystal Growth and Design, 2011, 11, 5192-5199.	3.0	16
136	Second-order quadrupolar effects on NMR spectra of nuclei in solids, transmitted by dipolar coupling. compounds containing. Journal of Magnetic Resonance, 1992, 96, 119-130.	0.5	15
137	13C CPâ€“MAS NMR spectra of tropical hardwoods. Polymer International, 1995, 36, 247-259.	3.1	15
138	On the nature of boron-carbon-nitrogen compounds synthesised from organic precursors. Journal of Alloys and Compounds, 1995, 227, 102-108.	5.5	15
139	Exploiting Powder X-ray Diffraction to Establish the Solvent-Assisted Solid-State Supramolecular Assembly of Pillar[5]quinone. Crystal Growth and Design, 2015, 15, 1583-1587.	3.0	15
140	Formation of apatite oxynitrides by the reaction between apatite-type oxide ion conductors, La8+xSr2â^'x(Si/Ge)6O26+x/2, and ammonia. Journal of Solid State Chemistry, 2009, 182, 3294-3298.	2.9	14
141	Nanoporous aluminosilicate mediated transacetalization reactions: application in glycerol valorization. Catalysis Science and Technology, 2012, 2, 2258.	4.1	14
142	NMR characterisation of structure in solvates and polymorphs of formoterol fumarate. Magnetic Resonance in Chemistry, 2012, 50, 680-690.	1.9	14
143	Simple Quaternary Ammonium Ions R4N+ (R=nPr, nBu, nPen) as Versatile Structure Directors for the Synthesis of Zeolite-Like, Heterobimetallic Cyanide Frameworks. Journal of Solid State Chemistry, 2000, 152, 286-301.	2.9	13
144	Characterization of Oleic Acid and Propranolol Oleate Mesomorphism using 13C Solidâ€State Nuclear Magnetic Resonance Spectroscopy (SSNMR). Journal of Pharmaceutical Sciences, 2000, 89, 1286-1295.	3.3	13

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145	Silicaâ^'Dimethylsiloxane HybridsNon-Hydrolytic Solâ^'Gel Synthesis and Characterization by NMR Spectroscopy. Chemistry of Materials, 2002, 14, 983-988.	6.7	13
146	A Truly Multifunctional Heterocycle: Iminophosphorane, N,Pâ€...Chelate, and Dihydropyridine. Angewandte Chemie - International Edition, 2008, 47, 8674-8677.	13.8	13
147	Synthesis, crystallization and characterization of diastereomeric salts formed by ephedrine and malic acid in water. Chemical Engineering Science, 2012, 77, 47-56.	3.8	13
148	Solid-state tin-119 NMR studies of poly(pyrazolyl)borate complexes of tin(II). Correlation of solution- and solid-state structures. Inorganic Chemistry, 1993, 32, 4472-4473.	4.0	12
149	Cross-polarisation kinetics and proton NMR relaxation in polymers of Citrus cell walls. Carbohydrate Research, 1996, 288, 1-14.	2.3	12
150	A study of the chemistry of isomorphous substitution and characterization of Al-ZSM-5 and Sc-ZSM-5 synthesized in fluoride media. Inorganic Materials, 2007, 43, 758-769.	0.8	12
151	From Cyclic Iminophosphoranes to Ï€â€Conjugated Materials. Angewandte Chemie - International Edition, 2009, 48, 9109-9113.	13.8	12
152	Nanoporous Aluminosilicate-Mediated Synthesis of Ethers by a Dehydrative Etherification Approach. ACS Sustainable Chemistry and Engineering, 2014, 2, 860-866.	6.7	12
153	New Insight into Mixing Fluoride and Chloride in Bioactive Silicate Glasses. Scientific Reports, 2018, 8, 1316.	3.3	12
154	Derisking the Polymorph Landscape: The Complex Polymorphism of Mexiletine Hydrochloride. Crystal Growth and Design, 2021, 21, 7150-7167.	3.0	12
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