

David C Apperley

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203
papers

7,285
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h-index

76
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210
ext. papers

7,911
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
203	Nanostructure of cellulose microfibrils in spruce wood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1195-203	11.5	496
202	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. <i>Chemistry of Materials</i> , 2007 , 19, 2686-2693	9.6	334
201	Structure of cellulose microfibrils in primary cell walls from collenchyma. <i>Plant Physiology</i> , 2013 , 161, 465-76	6.6	216
200	High performance aliphatic-heterocyclic benzyl-quaternary ammonium radiation-grafted anion-exchange membranes. <i>Energy and Environmental Science</i> , 2016 , 9, 3724-3735	35.4	173
199	High reactivity of metal-organic frameworks under grinding conditions: parallels with organic molecular materials. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3916-9	16.4	163
198	Structural details of crystalline cellulose from higher plants. <i>Biomacromolecules</i> , 2004 , 5, 1333-9	6.9	159
197	Synthesis, Structure, and Reactivity of Anionic sp(2) -sp(3) Diboron Compounds: Readily Accessible Boryl Nucleophiles. <i>Chemistry - A European Journal</i> , 2015 , 21, 7082-98	4.8	145
196	Conformational features of crystal-surface cellulose from higher plants. <i>Plant Journal</i> , 2002 , 30, 721-31	6.9	140
195	Investigations into the conversion of ethanol into 1,3-butadiene. <i>Catalysis Science and Technology</i> , 2011 , 1, 267	5.5	115
194	Synthesis and characterization of a rhodium(I) alkane complex in the solid state. <i>Science</i> , 2012 , 337, 1648-51	33.3	113
193	Fine structure in cellulose microfibrils: NMR evidence from onion and quince. <i>Plant Journal</i> , 1998 , 16, 183-90	6.9	113
192	Spectroscopic and structural characterization of the CyNHC adduct of B2pin2 in solution and in the solid state. <i>Journal of Organic Chemistry</i> , 2012 , 77, 785-9	4.2	111
191	Solid-State NMR: Basic Principles & Practice 2012 ,		108
190	Structural Studies of the Polymorphs of Carbamazepine, Its Dihydrate, and Two Solvates. <i>Organic Process Research and Development</i> , 2005 , 9, 902-910	3.9	107
189	Solid state ²⁹ Si NMR studies of apatite-type oxide ion conductors. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1410		103
188	Microfibril diameter in celery collenchyma cellulose: X-ray scattering and NMR evidence. <i>Cellulose</i> , 2007 , 14, 235-246	5.5	100
187	Direct structure elucidation by powder X-ray diffraction of a metal-organic framework material prepared by solvent-free grinding. <i>Chemical Communications</i> , 2010 , 46, 7572-4	5.8	95

186	One-pot two-step mechanochemical synthesis: ligand and complex preparation without isolating intermediates. <i>Green Chemistry</i> , 2014 , 16, 1374-1382	10	92
185	Variability in oxidative degradation of charcoal: Influence of production conditions and environmental exposure. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 2361-2378	5.5	89
184	Chain conformation in concentrated pectic gels: evidence from ¹³ C NMR. <i>Carbohydrate Research</i> , 1995 , 275, 131-145	2.9	87
183	Zinc(II) Homogeneous and Heterogeneous Species and Their Application for the Ring-Opening Polymerisation of rac-Lactide. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 635-642	2.3	83
182	Supramolecular organolead(IV) and -tin(IV) systems [(Me ₃ EIV) ₃ MIII(CN) ₆] _n . (E = Pb or Sn, M = Co or Fe): comparative x-ray diffraction and solid-state multinuclear magnetic resonance studies. <i>Organometallics</i> , 1992 , 11, 1718-1726	3.8	83
181	The Determination of the Crystal Structure of Anhydrous Theophylline by X-ray Powder Diffraction with a Systematic Search Algorithm, Lattice Energy Calculations, and ¹³ C and ¹⁵ N Solid-State NMR: A Question of Polymorphism in a Given Unit Cell. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5818-5826	3.4	81
180	Effect of Ga incorporation on the structure and Li ion conductivity of La ₃ Zr ₂ Li ₇ O ₁₂ . <i>Dalton Transactions</i> , 2012 , 41, 12048-53	4.3	76
179	The composition of nanoparticulate mackinawite, tetragonal iron(II) monosulfide. <i>Chemical Geology</i> , 2006 , 235, 286-298	4.2	73
178	Sulfathiazole polymorphism studied by magic-angle spinning NMR. <i>Journal of Pharmaceutical Sciences</i> , 1999 , 88, 1275-80	3.9	73
177	Superbasicity of a bis-guanidino compound with a flexible linker: a theoretical and experimental study. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16858-68	16.4	72
176	Influence of production variables and starting material on charcoal stable isotopic and molecular characteristics. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 6090-6102	5.5	70
175	The alkali stability of radiation-grafted anion-exchange membranes containing pendent 1-benzyl-2,3-dimethylimidazolium head-groups. <i>RSC Advances</i> , 2013 , 3, 579-587	3.7	66
174	Thermal conversion of a layered (Mg/Al) double hydroxide to the oxide. <i>Journal of Materials Chemistry</i> , 1995 , 5, 323		66
173	Investigations into the conversion of ethanol to 1,3-butadiene using MgO:SiO ₂ supported catalysts. <i>Catalysis Communications</i> , 2014 , 49, 25-28	3.2	63
172	A comparison of the molecular weights of polyaniline samples obtained from gel permeation chromatography and solid state ¹⁵ N n.m.r. spectroscopy. <i>Polymer</i> , 1993 , 34, 328-332	3.9	59
171	Direct observation of cell wall structure in living plant tissues by solid-state ¹³ C NMR spectroscopy. <i>Plant Physiology</i> , 1990 , 92, 61-5	6.6	58
170	Effect of oxygen content on the ²⁹ Si NMR, Raman spectra and oxide ion conductivity of the apatite series, La _{8+x} Sr _{2-x} (SiO ₄) ₆ O _{2+x/2} . <i>Dalton Transactions</i> , 2008 , 5296-301	4.3	57
169	Conformation and mobility of the arabinan and galactan side-chains of pectin. <i>Phytochemistry</i> , 2005 , 66, 1817-24	4	57

- 168 NMR study of desmotropy in Irbesartan, a tetrazole-containing pharmaceutical compound. *Journal of the Chemical Society Perkin Transactions II*, **1998**, 475-482 57
- 167 Characterisation of indomethacin and nifedipine using variable-temperature solid-state NMR. *Magnetic Resonance in Chemistry*, **2005**, 43, 881-92 2.1 56
- 166 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 2.3 56
- 165 Oxyanion doping strategies to enhance the ionic conductivity in Ba₂In₂O₅. *Journal of Materials Chemistry*, **2011**, 21, 874-879 54
- 164 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 3.8 53
- 163 Zinc(II) silsesquioxane complexes and their application for the ring-opening polymerization of rac-lactide. *Inorganic Chemistry*, **2010**, 49, 10232-4 5.1 50
- 162 Trivalent lanthanide lacunary phosphomolybdate complexes: a structural and spectroscopic study across the series [Ln(PMo₁₁O₃₉)₂]¹¹⁻. *Dalton Transactions*, **2005**, 1256-62 4.3 48
- 161 Bridging M-Cl bonds with ambiphilic phosphine-borane ligands. *Chemistry - an Asian Journal*, **2009**, 4, 428-35 4.5 47
- 160 Structural Features, Phase Relationships and Transformation Behavior of the Polymorphs IV of Phenobarbital. *Crystal Growth and Design*, **2010**, 10, 302-313 3.5 46
- 159 Nuclear Magnetic Resonance Studies of Silicon Carbide Polytypes. *Journal of the American Ceramic Society*, **1991**, 74, 777-782 3.8 46
- 158 Efficient, Scalable, and Solvent-free Mechanochemical Synthesis of the OLED Material Alq₃ (q = 8-Hydroxyquinolate). *Crystal Growth and Design*, **2012**, 12, 5869-5872 3.5 44
- 157 Chemoenzymatic synthesis of chiral 4,4'-bipyridyls and their metal-organic frameworks. *Chemical Communications*, **2008**, 5538-40 5.8 44
- 156 Kanemite (NaHSi₂O₅·BH₂O) and its hydrogen-exchanged form. *Journal of Materials Chemistry*, **1995**, 5, 577-582 44
- 155 The efficiency of charcoal decontamination for radiocarbon dating by three pre-treatments \square ABOX, ABA and hypy. *Quaternary Geochronology*, **2014**, 22, 25-32 2.7 43
- 154 Polymer-bound osmium oxide catalysts. *Journal of Molecular Catalysis A*, **1997**, 120, 197-205 43
- 153 [(CoCp₂)₂Fe(ECNSnMe₃NC)₃]: A Purely Organometallic Channel Inclusion Compound. *Angewandte Chemie International Edition in English*, **1995**, 34, 1197-1199 43
- 152 Tin-chlorine coupling in magic-angle spinning N.M.R. spectra. *Molecular Physics*, **1989**, 68, 1277-1286 1.7 42
- 151 Speciation of chloroindate(III) ionic liquids. *Dalton Transactions*, **2010**, 39, 8679-87 4.3 40

150	Structure of cellulose-deficient secondary cell walls from the <i>irx3</i> mutant of <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2002 , 61, 7-14	4	40
149	Studies on the crystallinity of a pharmaceutical development drug substance. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 1321-35	3.9	40
148	Architecture of the organometallic ion exchangers [(Me ₃ Sn ^{IV}) ₄ M ^{II} (CN) ₆] _n . (M = Fe, Ru, Os): a combined multinuclear solid-state magnetic resonance and infrared/Raman spectroscopic study. <i>Organometallics</i> , 1993 , 12, 3232-3240	3.8	40
147	Groth's Original Concomitant Polymorphs Revisited. <i>Crystal Growth and Design</i> , 2005 , 5, 2197-2209	3.5	39
146	Molecular Modeling, Multinuclear NMR, and Diffraction Studies in the Templated Synthesis and Characterization of the Aluminophosphate Molecular Sieve STA-2. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12698-12710	3.8	38
145	High Reactivity of Metal-Organic Frameworks under Grinding Conditions: Parallels with Organic Molecular Materials. <i>Angewandte Chemie</i> , 2010 , 122, 4008-4011	3.6	38
144	Synthesis and structural characterisation of the Li ion conducting garnet-related systems, Li ₆ Al ₂ Nb ₂ O ₁₂ (A=Ca, Sr). <i>Solid State Ionics</i> , 2008 , 179, 1693-1696	3.3	38
143	Silicoaluminophosphate Molecular Sieves STA-7 and STA-14 and Their Structure-Dependent Catalytic Performance in the Conversion of Methanol to Olefins. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15731-15741	3.8	37
142	Plasma-Enhanced Chemical Vapor Deposition of Organosilicon Materials: A Comparison of Hexamethyldisilane and Tetramethylsilane Precursors. <i>Macromolecules</i> , 1996 , 29, 1705-1710	5.5	37
141	High-resolution solid-state tin-119 and carbon-13 NMR studies of novel organotin(IV) coordination polymers involving R ₃ Sn and M(CN) _m fragments. <i>Organometallics</i> , 1990 , 9, 2672-2676	3.8	37
140	Tetravalent metal complexation by Keggin and lacunary phosphomolybdate anions. <i>Inorganic Chemistry</i> , 2008 , 47, 5787-98	5.1	36
139	Silicon Doping in Ba ₂ In ₂ O ₅ : Example of a Beneficial Effect of Silicon Incorporation on Oxide Ion/Proton Conductivity. <i>Chemistry of Materials</i> , 2010 , 22, 5945-5948	9.6	34
138	Alkaline ionomer with tuneable water uptakes for electrochemical energy technologies. <i>Energy and Environmental Science</i> , 2011 , 4, 4925	35.4	34
137	Cu(II) homogeneous and heterogeneous catalysts for the asymmetric Henry reaction. <i>Journal of Molecular Catalysis A</i> , 2010 , 325, 8-14		34
136	Conformational Polymorphism in Oxybuprocaine Hydrochloride. <i>Crystal Growth and Design</i> , 2008 , 8, 44-56	3.5	34
135	Group 14 metal terminal phosphides: correlating structure with J(MP) . <i>Inorganic Chemistry</i> , 2012 , 51, 9403-15	5.1	31
134	Synthesis of nanoporous aluminosilicate materials and their application as highly selective heterogeneous catalysts for the synthesis of amino alcohols. <i>Journal of Molecular Catalysis A</i> , 2010 , 329, 57-63		31
133	Nuclear magnetic resonance investigation of the interaction of water vapor with sildenafil citrate in the solid state. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 516-23	3.9	31

132	Weak Pnictogen Bond with Bismuth: Experimental Evidence Based on Bi-P Through-Space Coupling. <i>Chemistry - A European Journal</i> , 2019 , 25, 4017-4024	4.8	29
131	Crystal structure of triphenylphosphine sulfide diiodine; the first crystallographically characterised 1:1 molecular charge-transfer complex of a tertiary phosphine sulfide with diiodine. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 1289-1292		28
130	Plasma polymerization of tetramethylsilane. <i>Chemistry of Materials</i> , 1993 , 5, 1676-1682	9.6	28
129	Correlations between ²⁷ Al magic-angle spinning nuclear magnetic resonance spectra and the coordination geometry of framework aluminates. <i>Solid State Nuclear Magnetic Resonance</i> , 1994 , 3, 103-6 ^{3.1}		27
128	Identification of the hydrate gel phases present in phosphate-modified calcium aluminate binders. <i>Cement and Concrete Research</i> , 2015 , 70, 21-28	10.3	26
127	Exploiting non-innocent ligands to prepare masked palladium(0) complexes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7040-4	16.4	26
126	Polymer mobility in cell walls of transgenic tomatoes with reduced polygalacturonase activity. <i>Phytochemistry</i> , 1996 , 42, 301-307	4	26
125	²⁹ Si, ²⁷ Al and ¹⁵ N magic-angle spinning nuclear magnetic resonance study of O ² -sialons and some related phases. <i>Journal of Materials Chemistry</i> , 1992 , 2, 433-438		26
124	Characterization of Two Distinct Amorphous Forms of Valsartan by Solid-State NMR. <i>Molecular Pharmaceutics</i> , 2016 , 13, 211-22	5.6	25
123	Synthesis and characterization of zeotype ANA framework by hydrothermal reaction of natural clinker. <i>Fuel</i> , 2009 , 88, 272-281	7.1	25
122	A solid-state NMR study of molecular mobility and phase separation in co-spray-dried protein-sugar particles. <i>European Journal of Pharmaceutical Sciences</i> , 2005 , 25, 105-12	5.1	25
121	Polymer mobility in cell walls of cucumber hypocotyls. <i>Phytochemistry</i> , 1999 , 51, 17-22	4	25
120	Crystal polymorphs of barbital: news about a classic polymorphic system. <i>Molecular Pharmaceutics</i> , 2014 , 11, 338-50	5.6	24
119	Fluorine-19 solid-state NMR investigation of regiodefective semicrystalline poly(vinylidene fluoride). <i>Polymer</i> , 2003 , 44, 643-651	3.9	24
118	CP-MAS NMR of highly mobile hydrated biopolymers: polysaccharides of Allium cell walls. <i>Carbohydrate Research</i> , 1996 , 288, 15-23	2.9	24
117	Enhancing the Efficiency of a Dye-Sensitized Solar Cell Based on a Metal Oxide Nanocomposite Gel Polymer Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30185-30196	9.5	23
116	New solvates of an old drug compound (phenobarbital): structure and stability. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3267-80	3.4	23
115	¹³ C-NMR spectra of Lycopodium clavatum sporopollenin and oxidatively polymerised β-carotene. <i>Grana</i> , 1996 , 35, 125-127	0.8	23

114	NMR characterisation of dynamics in solvates and desolvates of formoterol fumarate. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6422-30	3.6	22
113	NMR crystallography of three polymorphs of phenobarbital. <i>Canadian Journal of Chemistry</i> , 2011 , 89, 770-778	0.9	22
112	Quantitative nuclear magnetic resonance analysis of solid formoterol fumarate and its dihydrate. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2487-94	3.9	22
111	Computation of magnetic shielding to simultaneously validate a crystal structure and assign a solid-state NMR spectrum. <i>Journal of Molecular Structure</i> , 2012 , 1015, 192-201	3.4	21
110	Synthesis and catalytic activity of nanoporous aluminosilicate materials. <i>Journal of Molecular Catalysis A</i> , 2009 , 314, 10-14		21
109	Spatial relationships between polymers in Sitka spruce: Proton spin-diffusion studies. <i>Holzforschung</i> , 2006 , 60, 665-673	2	21
108	CP-MAS NMR of highly mobile hydrated biopolymers: Polysaccharides of <i>Allium</i> cell walls. <i>Carbohydrate Research</i> , 1996 , 288, 15-23	2.9	21
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102	A comparison of siliceous faujasitic zeolites produced by direct synthesis or by secondary synthesis. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 8826-8831		20
101	Characterising the role of water in sildenafil citrate by NMR crystallography. <i>CrystEngComm</i> , 2016 , 18, 1054-1063	3.3	19
100	Solid-State ¹⁹⁹ Hg MAS NMR Studies of Mercury(II) Thiocyanate Complexes and Related Compounds. Crystal Structure of Hg(SeCN) ₂ . <i>Inorganic Chemistry</i> , 1998 , 37, 1734-1743	5.1	19
99	Solid-state NMR studies of some tin(II) compounds. <i>Solid State Nuclear Magnetic Resonance</i> , 2004 , 26, 160-71	3.1	19
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- 94 Novel organotin-functionalized, polymeric transition metal cyanides: From Me₃Sn- to Me₂Sn(CH₂)₃SnMe₂ spacers. *Journal of Organometallic Chemistry*, **1997**, 534, 187-194 2.3 18
- 93 Unprecedented NE 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)₆·H₂O] Assemblies (M=Fe, Co). *Chemistry - A European Journal*, **1998**, 4, 919-926 4.8 17
- 92 Vibrational, ³¹P NMR and crystallographic studies of diiodine adducts of some bidentate tertiary phosphine sulfides. *Polyhedron*, **2001**, 20, 1907-1913 2.7 17
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- 90 Template-Driven Syntheses of Polymeric Metal Cyanides: A Chiral Nanoporous Host for the nBu₄N⁺ Ion. *Angewandte Chemie International Edition in English*, **1996**, 35, 1525-1527 17
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- 85 Synthesis and Properties of Hydrogen-Free Detonation Diamond. *Propellants, Explosives, Pyrotechnics*, **2015**, 40, 39-45 1.7 15
- 84 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 3.5 15
- 83 Surface analysis of novel hydroxyapatite bioceramics containing titanium(IV) and fluoride. *Journal of Materials Chemistry*, **2005**, 15, 1626 15
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77	Concise syntheses of tridentate PNE ligands and their coordination chemistry with palladium(II) : a solution- and solid-state study. <i>Dalton Transactions</i> , 2006 , 4134-45	4.3	14
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73	NMR characterisation of structure in solvates and polymorphs of formoterol fumarate. <i>Magnetic Resonance in Chemistry</i> , 2012 , 50, 680-90	2.1	13
72	Formation of apatite oxynitrides by the reaction between apatite-type oxide ion conductors, La _{8+x} Sr _{2x} (Si/Ge) ₆ O _{26+x/2} , and ammonia. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 3294-3298	3.3	13
71	A solid-state NMR study of cellulose degradation. <i>Cellulose</i> , 1996 , 3, 77-90	5.5	13
70	Dehydrative Etherification Reactions of Glycerol with Alcohols Catalyzed by Recyclable Nanoporous Aluminosilicates: Telescoped Routes to Glyceryl Ethers. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 835-843	8.3	13
69	Nanoporous aluminosilicate mediated transacetalization reactions: application in glycerol valorization. <i>Catalysis Science and Technology</i> , 2012 , 2, 2258	5.5	12
68	Synthesis, crystallization and characterization of diastereomeric salts formed by ephedrine and malic acid in water. <i>Chemical Engineering Science</i> , 2012 , 77, 47-56	4.4	12
67	[Ni(CN) ₂ · 2Me ₃ SnCN · (nBu ₄ N)OH]: a layered, supramolecular assembly containing the earlier described, macrocyclic building block [((Me ₃ Sn) ₂ OH) ₂ {(NC) ₂ Ni(CN) ₂ } ₂]. <i>Inorganic Chemistry Communication</i> , 1998 , 1, 346-349	3.1	12
66	Silica-Dimethylsiloxane Hybrids Non-Hydrolytic Sol-Gel Synthesis and Characterization by NMR Spectroscopy. <i>Chemistry of Materials</i> , 2002 , 14, 983-988	9.6	12
65	Exploiting Powder X-ray Diffraction to Establish the Solvent-Assisted Solid-State Supramolecular Assembly of Pillar[5]quinone. <i>Crystal Growth and Design</i> , 2015 , 15, 1583-1587	3.5	11
64	Simple Quaternary Ammonium Ions R ₄ N ⁺ (R=nPr, nBu, nPen) as Versatile Structure Directors for the Synthesis of Zeolite-Like, Heterobimetallic Cyanide Frameworks. <i>Journal of Solid State Chemistry</i> , 2000 , 152, 286-301	3.3	11
63	Characterization of oleic acid and propranolol oleate mesomorphism using (¹³ C) solid-state nuclear magnetic resonance spectroscopy (SSNMR). <i>Journal of Pharmaceutical Sciences</i> , 2000 , 89, 1286-95	3.9	11
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61	On the nature of boron-carbon-nitrogen compounds synthesised from organic precursors. <i>Journal of Alloys and Compounds</i> , 1995 , 227, 102-108	5.7	11

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