

James Hook

List of Publications by Year in descending order

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140
papers

6,089
citations

81900

39
h-index

79698

73
g-index

152
all docs

152
docs citations

152
times ranked

8389
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation into the reactions of biochar in soil. <i>Soil Research</i> , 2010, 48, 501.	1.1	840
2	Functionalization of Halloysite Clay Nanotubes by Grafting with $\hat{1}^3$ -Aminopropyltriethoxysilane. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15742-15751.	3.1	827
3	Shifting paradigms: development of high-efficiency biochar fertilizers based on nano-structures and soluble components. <i>Carbon Management</i> , 2013, 4, 323-343.	2.4	310
4	Mineral- $\hat{1}$ €Biochar Composites: Molecular Structure and Porosity. <i>Environmental Science & Technology</i> , 2016, 50, 7706-7714.	10.0	148
5	An investigation into the supramolecular structure, solubility, stability and antioxidant activity of rutin/cyclodextrin inclusion complex. <i>Food Chemistry</i> , 2013, 136, 186-192.	8.2	140
6	Solid-state lead-207 NMR of lead(II) nitrate: Localized heating effects at high magic angle spinning speeds. <i>Magnetic Resonance in Chemistry</i> , 1995, 33, 791-795.	1.9	118
7	Chitosan as a Biomaterial: Influence of Degree of Deacetylation on Its Physicochemical, Material and Biological Properties. <i>PLoS ONE</i> , 2015, 10, e0135153.	2.5	115
8	Recent developments in the Birch reduction of aromatic compounds: applications to the synthesis of natural products. <i>Natural Product Reports</i> , 1986, 3, 35.	10.3	104
9	Reaction of Vanadate with Aquatic Humic Substances: $\hat{1}$ An ESR and 51V NMR Study. <i>Environmental Science & Technology</i> , 1998, 32, 2257-2263.	10.0	95
10	Synthesis and Characterization of Mesostructured Vanadium Oxide. <i>Chemistry of Materials</i> , 1995, 7, 2220-2223.	6.7	93
11	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. <i>Natural Product Reports</i> , 2019, 36, 35-107.	10.3	92
12	Quantitative Nuclear Magnetic Resonance (QNMR) Spectroscopy for Assessing the Purity of Technical Grade Agrochemicals: $\hat{1}$ 2,4-Dichlorophenoxyacetic Acid (2,4-D) and Sodium 2,2-Dichloropropionate (Dalapon Sodium). <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 3366-3374.	5.2	81
13	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. <i>Science of the Total Environment</i> , 2020, 713, 136431.	8.0	78
14	Solvent reorganisation as the driving force for rate changes of Menshutkin reactions in an ionic liquid. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3572.	2.8	76
15	The importance of solvent reorganisation in the effect of an ionic liquid on a unimolecular substitution process. <i>Chemical Communications</i> , 2008, , 3576.	4.1	74
16	Feeding Biochar to Cows: An Innovative Solution for Improving Soil Fertility and Farm Productivity. <i>Pedosphere</i> , 2015, 25, 666-679.	4.0	74
17	An oxidative carbon- $\hat{1}$ carbon bond-forming reaction proceeds via an isolable iminium ion. <i>Pure and Applied Chemistry</i> , 2011, 83, 655-665.	1.9	72
18	Substitution reactions in ionic liquids. A kinetic study. <i>Tetrahedron Letters</i> , 2005, 46, 7641-7645.	1.4	71

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19	Photodynamic therapy with nanoparticles to combat microbial infection and resistance. <i>Nanoscale</i> , 2020, 12, 21034-21059.	5.6	66
20	Functionalizing Biodegradable Dextran Scaffolds Using Living Radical Polymerization: New Versatile Nanoparticles for the Delivery of Therapeutic Molecules. <i>Molecular Pharmaceutics</i> , 2012, 9, 3046-3061.	4.6	63
21	Hyperforin and its analogues inhibit CYP3A4 enzyme activity. <i>Phytochemistry</i> , 2006, 67, 2550-2560.	2.9	62
22	Dolichol is the major lipid component of human substantia nigra neuromelanin. <i>Journal of Neurochemistry</i> , 2005, 92, 990-995.	3.9	61
23	Study of the Structure and Mechanism of Formation through Self-Assembly of Mesoporous Vanadium Oxide. <i>Chemistry of Materials</i> , 1997, 9, 2731-2744.	6.7	60
24	Dimethylsulfone as a universal standard for analysis of organics by QNMR. <i>Accreditation and Quality Assurance</i> , 2004, 9, 450.	0.8	59
25	Chitosan adhesive for laser tissue repair: In vitro characterization. <i>Lasers in Surgery and Medicine</i> , 2005, 36, 193-201.	2.1	59
26	Just add sugar for carbohydrate induced self-assembly of curcumin. <i>Nature Communications</i> , 2019, 10, 582.	12.8	57
27	Redox tunable viologen-based porous organic polymers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2535-2544.	5.5	55
28	Ionic liquids through the looking glass: theory mirrors experiment and provides further insight into aromatic substitution processes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1873-1878.	2.8	53
29	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6848-6852.	13.8	53
30	An uncertainty budget for the determination of the purity of glyphosate by quantitative nuclear magnetic resonance (QNMR) spectroscopy. <i>Accreditation and Quality Assurance</i> , 2004, 9, 55-63.	0.8	52
31	Ionic Liquids: Just Molten Salts After All?. <i>Molecules</i> , 2009, 14, 2521-2534.	3.8	51
32	A Simple and Efficient Synthesis of Ethyl and Methyl Glyoxylate. <i>Synthetic Communications</i> , 1984, 14, 83-87.	2.1	50
33	Gecko-inspired chitosan adhesive for tissue repair. <i>NPG Asia Materials</i> , 2016, 8, e280-e280.	7.9	50
34	The influence of steric effects in substituted 2,2'-bipyridine on the spin state of iron(II) in [FeN6] ²⁺ systems. <i>Inorganica Chimica Acta</i> , 1990, 173, 19-30.	2.4	46
35	Photochemical tissue bonding with chitosan adhesive films. <i>BioMedical Engineering OnLine</i> , 2010, 9, 47.	2.7	46
36	PHENYL TIN DIETHYL DITHIOCARBAMATES: SOLID STATE AND SOLUTION STRUCTURES AND IN VITRO ANTI-TUMOUR ACTIVITY. <i>Main Group Metal Chemistry</i> , 1994, 17, .	1.6	45

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37	Quantitative nuclear magnetic resonance spectrometry. <i>Analytica Chimica Acta</i> , 2002, 474, 125-135.	5.4	45
38	The utilisation of feed and byproducts of mineral carbonation processes as pozzolanic cement replacements. <i>Journal of Cleaner Production</i> , 2018, 186, 499-513.	9.3	43
39	Total synthesis of gibberellic acid. The hydrofluorene route. <i>Journal of the American Chemical Society</i> , 1980, 102, 6628-6629.	13.7	40
40	Dynamics of water in agar gels studied using low and high resolution ¹ H NMR spectroscopy. <i>International Journal of Food Science and Technology</i> , 2010, 45, 2502-2507.	2.7	38
41	Fire-derived organic matter retains ammonia through covalent bond formation. <i>Nature Communications</i> , 2019, 10, 664.	12.8	38
42	Pyrolysis of attapulgite clay blended with yak dung enhances pasture growth and soil health: Characterization and initial field trials. <i>Science of the Total Environment</i> , 2017, 607-608, 184-194.	8.0	36
43	Reductive alkylation of 2,5-dimethoxybenzoic acid: a direct synthesis of dihydrofluoren-2-ones. <i>Journal of Organic Chemistry</i> , 1980, 45, 1722-1724.	3.2	35
44	A natural-synthetic hybrid copolymer of polyhydroxyoctanoate-diethylene glycol: biosynthesis and properties. <i>Polymer</i> , 2005, 46, 6587-6594.	3.8	35
45	Molecular interactions in coupled PMMA- ⁺ bioglass hybrid networks. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1835.	5.8	34
46	Examination of the effect of crystal packing forces on geometric parameters: a combined crystallographic and theoretical study of 2,2'-bipyridyl adducts of R ₂ SnCl ₂ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2000, 215, .	0.8	33
47	Exploiting stable radical states for multifunctional properties in triarylamine-based porous organic polymers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12466-12474.	10.3	33
48	Purity assessment of organic calibration standards using a combination of quantitative NMR and mass balance. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3103-3113.	3.7	33
49	Molecular structures driving pseudo-capacitance in hydrothermal nanostructured carbons. <i>RSC Advances</i> , 2016, 6, 12964-12976.	3.6	28
50	Reductive alkylation of 2-methoxybenzoic acid derivatives. <i>Tetrahedron Letters</i> , 1982, 23, 1095-1098.	1.4	27
51	Heterogeneously catalysed crosslinking of polycarbosilane with divinylbenzene. <i>Journal of Materials Science</i> , 2008, 43, 2666-2674.	3.7	27
52	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. <i>Angewandte Chemie</i> , 2018, 130, 6964-6968.	2.0	27
53	Biosynthesis of vitamin B12: analysis of the ¹ H and ¹³ C n.m.r. spectra of heptamethyl dicyanocobyrinate (cobester). <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1982, , 2265.	0.9	26
54	Biosynthesis of Natural-Synthetic Hybrid Copolymers: ⁺ Polyhydroxyoctanoate ⁺ Diethylene Glycol. <i>Biomacromolecules</i> , 2004, 5, 643-649.	5.4	25

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55	Micro- and Nanostructured Biomaterials for Sutureless Tissue Repair. <i>Advanced Healthcare Materials</i> , 2016, 5, 401-414.	7.6	25
56	High population and dispersion of pentacoordinated AlV species on the surface of flame-made amorphous silica-alumina. <i>Science Bulletin</i> , 2019, 64, 516-523.	9.0	25
57	Porous chitosan adhesives with L-DOPA for enhanced photochemical tissue bonding. <i>Acta Biomaterialia</i> , 2020, 101, 314-326.	8.3	25
58	Solid-state ^{119}Sn NMR and antitumor activity of bis [1,3-bis (3-oxapentamethylenecarbamoylthioacetato)-1,1,3,3-tetrabutyl-1,3-distannoxare], and the crystal structure of its bis-ethanol solvate. <i>Applied Organometallic Chemistry</i> , 2000, 14, 1-7.	3.5	24
59	Biosynthesis and Characterization of Deuterated Polyhydroxyoctanoate. <i>Biomacromolecules</i> , 2006, 7, 1344-1349.	5.4	24
60	Microstructural characterization of white charcoal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 109, 215-221.	5.5	24
61	Preparation, characterization and in vitro biological evaluation of (1:2) phenoxodiol- β -cyclodextrin complex. <i>Carbohydrate Polymers</i> , 2017, 165, 444-454.	10.2	24
62	Reaction of aquatic humic substances with aluminium: a ^{27}Al NMR study. <i>Marine and Freshwater Research</i> , 1997, 48, 377.	1.3	24
63	Solid-state mercury-199 NMR of hexakis (dimethyl sulphoxid- O) mercury (II) trifluoromethanesulphonate: A new standard for mercury-199 CP/MAS experiments. <i>Magnetic Resonance in Chemistry</i> , 1995, 33, 77-79.	1.9	23
64	Titanium Dioxide Nanoparticles Functionalized with Pd and W Complexes of a Catecholphosphane Ligand. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 496-503.	2.0	23
65	Carborane functionalization of the aromatic network in chemically-synthesized graphene. <i>Chemical Communications</i> , 2014, 50, 11332.	4.1	23
66	From Lead(II) Dithiocarbamate Precursors to a Fast Response PbS Positive Temperature Coefficient Thermistor. <i>Inorganic Chemistry</i> , 2018, 57, 2132-2140.	4.0	23
67	Superphenylphosphines: Nanographene-Based Ligands That Control Coordination Geometry and Drive Supramolecular Assembly. <i>Journal of the American Chemical Society</i> , 2018, 140, 1131-1141.	13.7	22
68	Molecular Encapsulation of Eucalyptus staigeriana Essential Oil by Forming Inclusion Complexes with Hydroxypropyl- β -Cyclodextrin. <i>Food and Bioprocess Technology</i> , 2019, 12, 1264-1272.	4.7	22
69	Priming the pores of mesoporous silica nanoparticles with an in-built RAFT agent for anchoring a thermally responsive polymer. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 60-69.	4.4	22
70	Orientation effects in the deuterium NMR spectroscopy of perfluorinated ionomer membranes. <i>Solid State Ionics</i> , 1994, 67, 241-248.	2.7	21
71	^{17}O Quantitative Nuclear Magnetic Resonance Spectroscopy of Gasoline and Oxygenated Additives. <i>Analytical Chemistry</i> , 2003, 75, 4659-4666.	6.5	21
72	Characterization of Soil Organic Matter in Aggregates and Size-Density Fractions by Solid State ^{13}C CP/MAS NMR Spectroscopy. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 1523-1537.	1.4	21

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73	Salt-enhanced photocatalytic hydrogen production from water with carbon nitride nanorod photocatalysts: cation and pH dependence. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18987-18995.	10.3	21
74	Studies on gibberellin synthesis: the total synthesis of gibberellic acid from hydrofluorenone intermediates. <i>Journal of Organic Chemistry</i> , 1984, 49, 3250-3260.	3.2	20
75	Incorporation of 5- <i>H</i> -Hydroxyindazole into the Self-Polymerization of Dopamine for Novel Polymer Synthesis. <i>Macromolecular Rapid Communications</i> , 2014, 35, 291-297.	3.9	20
76	DNP NMR spectroscopy reveals new structures, residues and interactions in wild spider silks. <i>Chemical Communications</i> , 2019, 55, 4687-4690.	4.1	20
77	Novel Coordination Isomerization in Organotin(IV) Compounds. Synthesis, Molecular Structures, and NMR Studies of $LSnPhX_2$ ($X = Ph, Cl, Br, I, SPh$), LCH_2SnPhX_2 ($X = Ph, Cl, Br, I$), and $LSiPh_3$, Where LH Is $(2-MeO-3-tBu-5-Me-C_6H_2)CH_2$. <i>Organometallics</i> , 1997, 16, 3696-3706.	2.3	19
78	Crystal packing in tetraphenylphosphonium salts of trithiocyanuric acid and its methanol solvate. <i>CrystEngComm</i> , 2004, 6, 543.	2.6	19
79	2-Nitro-6-monoacetylmorphine: potential marker for monitoring the presence of 6-monoacetylmorphine in urine adulterated with potassium nitrite. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2057-2063.	3.7	18
80	Electroactive $Co(III)$ salen metal complexes and the electrophoretic deposition of their porous organic polymers onto glassy carbon. <i>RSC Advances</i> , 2018, 8, 24128-24142.	3.6	18
81	The electronic, optical and magnetic consequences of delocalization in multifunctional donor-acceptor organic polymers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11252-11259.	2.8	17
82	Versatile oligomers and polymers from flavonoids – a new approach to synthesis. <i>Polymer Chemistry</i> , 2017, 8, 2317-2326.	3.9	17
83	Polymorphic Transformation of Drugs Induced by Glycopolymeric Vesicles Designed for Anticancer Therapy Probed by Solid-State NMR Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28278-28288.	8.0	17
84	Qualitative and quantitative 1H NMR spectroscopy for determination of divalent metal cation concentration in model salt solutions, food supplements, and pharmaceutical products by using EDTA as chelating agent. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 653-665.	1.9	17
85	Structure of Silica Polymers and Reaction Mechanism for Formation of Silica-Rich Precipitated Phases in Direct Aqueous Carbon Mineralization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6828-6839.	3.7	16
86	Reductive Alkylation of 2,5-Dimethoxybenzoic Acid; A Direct Synthesis of Tetrahydrophenanthren-2-ones. <i>Synthesis</i> , 1979, 1979, 374-376.	2.3	15
87	Tetraaryl-methane analogues in group 14 ^{IV} . Distortion of tetrahedral geometry in terms of through-space $\pi-\pi$ and $\pi-f$ interactions and NMR sagging in terms of $\pi-f$ charge transfer. <i>Polyhedron</i> , 1998, 17, 4497-4506.	2.2	15
88	NMR relaxation studies of porous sol-gel glasses. <i>Magnetic Resonance Imaging</i> , 1998, 16, 511-513.	1.8	15
89	Polymorphism and a Metastable Solvate of Duloxetine Hydrochloride. <i>Molecular Pharmaceutics</i> , 2011, 8, 2454-2464.	4.6	15
90	Persistence of a self-complementary $N-H-N$ tape motif in chloro-s-triazine crystals: crystal structures of simazine and atrazine herbicides and their polymorphic and inclusion behaviour. <i>CrystEngComm</i> , 2016, 18, 962-970.	2.6	15

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91	<p>Cadmium complexes of thiones. Part II. ¹¹¹Cd NMR study of cadmium complexes of 1,3-thiazolidine-2-thione, and the structures of [tetrakis(1,3-thiazolidine-2-thione)cadmium] trifluoromethanesulfonate ([Cd(C₃H₅NS₂)₄](CF₃SO₂)₂) and [tetrakis(1,3-thiazolidine-2-thione)cadmium][tetrakis(nitrato-O,O')cadmate]</p>		

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109	Diisopropylammonium oxalatotriphenylstannate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 310-312.	0.4	8
110	Oxidation of 2,2,7,8-tetramethyl-6-chromanol, the model compound of $\hat{\beta}$ -tocopherol, by hypochlorous acid. <i>Redox Report</i> , 2000, 5, 60-62.	4.5	8
111	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 349-355.	3.6	8
112	Recent Advances in the NMR Spectroscopy of Chlorine, Bromine and Iodine. <i>Annual Reports on NMR Spectroscopy</i> , 2011, 73, 63-82.	1.5	8
113	Ultralow surface energy self-assembled monolayers of iodo-perfluorinated alkanes on silica driven by halogen bonding. <i>Nanoscale</i> , 2019, 11, 2401-2411.	5.6	8
114	Application of low-field, $^1\text{H}/^{13}\text{C}$ high-field solution and solid state NMR for characterisation of oil fractions responsible for wettability change in sandstones. <i>Magnetic Resonance Imaging</i> , 2019, 56, 77-85.	1.8	8
115	Brewing coffee? “ Ultra-sonication has clear beneficial effects on the extraction of key volatile aroma components and triglycerides. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104796.	8.2	8
116	^{79}Br NMR spectroscopy as a practical tool for kinetic analysis. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 342-347.	1.9	7
117	Synthesis and NMR characterization of the methyl esters of eicosapentaenoic acid monoepoxides. <i>Chemistry and Physics of Lipids</i> , 2009, 159, 30-37.	3.2	7
118	Nontargeted Identification of Plasma Proteins O-, N-, and S-Transmethylated by O-Methyl Organophosphates. <i>Analytical Chemistry</i> , 2020, 92, 15420-15428.	6.5	7
119	A Phosphonated Poly(ethylenedioxythiophene) Derivative with Low Oxidation Potential for Energy-Efficient Bioelectronic Devices. <i>Chemistry of Materials</i> , 2022, 34, 140-151.	6.7	7
120	^{14}N NMR Spectroscopy of Nitrate Co-ions in Ionomer Membranes. <i>Macromolecules</i> , 1997, 30, 4357-4362.	4.8	6
121	Bio-Activity of Natural Polymers from the Genus Pistacia: A Validated Model for Their Antimicrobial Action. <i>Global Journal of Health Science</i> , 2011, 4, 149-61.	0.2	6
122	A synthetic, structural, and ^{113}Cd NMR study of cadmium complexes of 1,3-thiazolidine-2-thionate,		

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127	LocMAP: A new localization method for the parametric processing of high resolution NMR data. <i>Journal of Magnetic Resonance</i> , 2017, 282, 62-70.	2.1	4
128	Biosynthesis of vitamin B12: preparation of specifically deuteriated heptamethyl dicyanocobyrinate for study by 2H n.m.r. spectroscopy. <i>Journal of the Chemical Society Chemical Communications</i> , 1982, , 181.	2.0	3
129	CRYSTAL STRUCTURE OF BIS(TRIFLUOROACETATO)- DIBUTYL TIN 1,10-PHENANTHROLINE. <i>Main Group Metal Chemistry</i> , 1999, 22, .	1.6	3
130	Bis[(N,N-3-oxapentamethylenethiocarbamoylthioacetato)triphenyltin] hydrate and bis(dicyclohexylammonium) bis(3-oxapentamethylenethiocarbamoylthioacetate). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 312-316.	0.4	3
131	Solid-state NMR as a probe of anion binding: molecular dynamics and associations in a [5]polynorbornane bisurea host complexed with terephthalate. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22195-22203.	2.8	3
132	Site-specific synthesis of a hybrid boron-graphene salt. <i>Chemical Communications</i> , 2016, 52, 1290-1292.	4.1	3
133	Redox-State Dependent Spectroscopic Properties of Porous Organic Polymers Containing Furan, Thiophene, and Selenophene. <i>Australian Journal of Chemistry</i> , 2017, 70, 1227.	0.9	3
134	2.3 Extra-Framework Sites in H-Al MFI and H-GaMFI Zeolite Catalysts. <i>Studies in Surface Science and Catalysis</i> , 1994, 90, 129-134.	1.5	2
135	catena-Poly[triphenyltin-1/4-(N,N-diethylthiocarbamoylthioacetato-O:O')],catena-poly[triphenyltin-1/4-(N-methyl-N-phenylthiocarbamo and triphenyl(N,N-tetramethylenethiocarbamoylthioacetato-O)tin. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 744-748.	0.4	2
136	The Use of Phosphine as an Agricultural Fumigant. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 111, 89-89.	1.6	1
137	Dihydromyricetin hexaacetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2627-o2627.	0.2	1
138	Host-guest interactions of catechol and 4-ethylcatechol with surface-immobilized blue-box molecules. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12713-12722.	10.3	1
139	Salen-Based Metal Complexes and the Physical Properties of their Porous Organic Polymers. <i>Australian Journal of Chemistry</i> , 2019, 72, 916.	0.9	1
140	Dynamic solution behaviour of metal complexes of the hexamine cage ligand Me8tricosane. <i>Inorganica Chimica Acta</i> , 2019, 496, 119013.	2.4	0