

# John A Ripmeester

## List of Publications by Year in descending order

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156  
papers

10,358  
citations

25034

57  
h-index

37204

96  
g-index

170  
all docs

170  
docs citations

170  
times ranked

4627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning clathrate hydrates for hydrogen storage. <i>Nature</i> , 2005, 434, 743-746.	27.8	737
2	A new clathrate hydrate structure. <i>Nature</i> , 1987, 325, 135-136.	27.8	699
3	Recovering Methane from Solid Methane Hydrate with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5048-5051.	13.8	332
4	Complex gas hydrate from the Cascadia margin. <i>Nature</i> , 2007, 445, 303-306.	27.8	282
5	Structure, Composition, and Thermal Expansion of CO <sub>2</sub> Hydrate from Single Crystal X-ray Diffraction Measurements. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4200-4204.	2.6	262
6	Efficient Recovery of CO <sub>2</sub> from Flue Gas by Clathrate Hydrate Formation in Porous Silica Gels. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2315-2319.	10.0	246
7	Effect of Antifreeze Proteins on the Nucleation, Growth, and the Memory Effect during Tetrahydrofuran Clathrate Hydrate Formation. <i>Journal of the American Chemical Society</i> , 2006, 128, 2844-2850.	13.7	190
8	Direct Space Methods for Powder X-ray Diffraction for Guest-Host Materials: Applications to Cage Occupancies and Guest Distributions in Clathrate Hydrates. <i>Journal of the American Chemical Society</i> , 2010, 132, 524-531.	13.7	190
9	Single Crystal Diffraction Studies of Structure I, II and H Hydrates: Structure, Cage Occupancy and Composition. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 405-408.	0.4	155
10	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 2. Stirred Reactor Experiments. <i>Energy &amp; Fuels</i> , 2011, 25, 4384-4391.	5.1	145
11	Dipeptides as Microporous Materials. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6308-6311.	13.8	142
12	The Coexistence of Two Different Methane Hydrate Phases under Moderate Pressure and Temperature Conditions: Kinetic versus Thermodynamic Products. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3310-3313.	13.8	141
13	Linking microscopic guest properties to macroscopic observables in clathrate hydrates: Guest-host hydrogen bonding. <i>Journal of Chemical Physics</i> , 2009, 130, 174501.	3.0	141
14	The Diverse Nature of Dodecahedral Cages in Clathrate Hydrates As Revealed by <sup>129</sup> Xe and <sup>13</sup> C NMR Spectroscopy: A CO <sub>2</sub> as a Small-Cage Guest. <i>Energy &amp; Fuels</i> , 1998, 12, 197-200.	5.1	140
15	A complex clathrate hydrate structure showing bimodal guest hydration. <i>Nature</i> , 1999, 397, 420-423.	27.8	137
16	Nucleation and Growth of Hydrates on Ice Surfaces: A New Insights from <sup>129</sup> Xe NMR Experiments with Hyperpolarized Xenon. <i>Journal of Physical Chemistry B</i> , 2001, 105, 12338-12347.	2.6	137
17	Structure and composition of CO <sub>2</sub> /H <sub>2</sub> and CO <sub>2</sub> /H <sub>2</sub> /C <sub>3</sub> H <sub>8</sub> hydrate in relation to simultaneous CO <sub>2</sub> capture and H <sub>2</sub> production. <i>AIChE Journal</i> , 2009, 55, 1584-1594.	3.6	131
18	Dissociation Behavior of Clathrate Hydrates to Ice and Dependence on Guest Molecules. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1276-1279.	13.8	127

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19	Thermally Programmable Gas Storage and Release in Single Crystals of an Organic van der Waals Host. <i>Journal of the American Chemical Society</i> , 2003, 125, 9896-9897.	13.7	126
20	Micropores in Crystalline Dipeptides as Seen from the Crystal Structure, He Pycnometry, and <sup>129</sup> Xe NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 6737-6744.	13.7	123
21	Effect of Guest-Host Hydrogen Bonding on the Structures and Properties of Clathrate Hydrates. <i>Chemistry - A European Journal</i> , 2010, 16, 1017-1025.	3.3	121
22	A General Correlation for the <sup>129</sup> Xe NMR Chemical Shift-Pore Size Relationship in Porous Silica-Based Materials. <i>Langmuir</i> , 2002, 18, 5653-5656.	3.5	119
23	Effect of antifreeze protein on nucleation, growth and memory of gas hydrates. <i>AIChE Journal</i> , 2006, 52, 3304-3309.	3.6	114
24	Methanol incorporation in clathrate hydrates and the implications for oil and gas pipeline flow assurance and icy planetary bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8437-8442.	7.1	113
25	Anomalous Preservation of CH <sub>4</sub> Hydrate and its Dependence on the Morphology of Hexagonal Ice. <i>ChemPhysChem</i> , 2010, 11, 70-73.	2.1	112
26	Some current challenges in clathrate hydrate science: Nucleation, decomposition and the memory effect. <i>Current Opinion in Solid State and Materials Science</i> , 2016, 20, 344-351.	11.5	112
27	Hydrogen-bonding alcohol-water interactions in binary ethanol, 1-propanol, and 2-propanol+methane structure II clathrate hydrates. <i>Journal of Chemical Physics</i> , 2010, 133, 074505.	3.0	110
28	Hydrogen-Gas Migration through Clathrate Hydrate Cages. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6102-6105.	13.8	109
29	Formation of methane nano-bubbles during hydrate decomposition and their effect on hydrate growth. <i>Journal of Chemical Physics</i> , 2015, 142, 214701.	3.0	103
30	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 3. Structural and Compositional Changes. <i>Energy &amp; Fuels</i> , 2011, 25, 4398-4404.	5.1	99
31	Ammonia clathrate hydrates as new solid phases for Titan, Enceladus, and other planetary systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14785-14790.	7.1	99
32	Two-Stage Clathrate Hydrate/Membrane Process for Precombustion Capture of Carbon Dioxide and Hydrogen. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 411-417.	1.4	92
33	Molecular Modeling of the Dissociation of Methane Hydrate in Contact with a Silica Surface. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3188-3197.	2.6	92
34	The Structure of Two Anhydrous Polymorphs of Caffeine from Single-Crystal Diffraction and Ultrahigh-Field Solid-State <sup>13</sup> C NMR Spectroscopy. <i>Crystal Growth and Design</i> , 2007, 7, 1406-1410.	3.0	91
35	Characterization of gas hydrates with PXRD, DSC, NMR, and Raman spectroscopy. <i>Chemical Engineering Science</i> , 2007, 62, 3930-3939.	3.8	89
36	Interaction of Antifreeze Proteins with Hydrocarbon Hydrates. <i>Chemistry - A European Journal</i> , 2010, 16, 10409-10417.	3.3	88

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37	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 1. High Pressure Calorimetry. <i>Energy &amp; Fuels</i> , 2011, 25, 4392-4397.	5.1	84
38	Towards a Green Hydrate Inhibitor: Imaging Antifreeze Proteins on Clathrates. <i>PLoS ONE</i> , 2010, 5, e8953.	2.5	82
39	Molecular simulation of non-equilibrium methane hydrate decomposition process. <i>Journal of Chemical Thermodynamics</i> , 2012, 44, 13-19.	2.0	79
40	Methane and Carbon Dioxide Hydrate Formation in Water Droplets: Spatially Resolved Measurements from Magnetic Resonance Microimaging. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17591-17595.	2.6	78
41	A Channel-Free Soft-Walled Capsular Calixarene Solid for Gas Adsorption. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5616-5618.	13.8	77
42	Multiple H <sub>2</sub> Occupancy of Cages of Clathrate Hydrate under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 9160-9162.	13.7	75
43	Evolution of methane during gas hydrate dissociation. <i>Fluid Phase Equilibria</i> , 2013, 358, 114-120.	2.5	75
44	A Dense and Efficient Clathrate Hydrate Structure with Unusual Cages. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1303-1305.	13.8	73
45	Self-inclusion and paraffin intercalation of the p-tert-butylcalix[4]arene host: a neutral organic clay mimic. <i>Chemical Communications</i> , 2001, , 565-566.	4.1	72
46	A129Xe NMR Study of Functionalized Ordered Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5938-5946.	2.6	70
47	Application of the ATR-IR Spectroscopic Technique to the Characterization of Hydrates Formed by CO <sub>2</sub> , CO <sub>2</sub> /H <sub>2</sub> and CO <sub>2</sub> /H <sub>2</sub> /C <sub>3</sub> H <sub>8</sub> . <i>Journal of Physical Chemistry A</i> , 2009, 113, 6308-6313.	2.5	68
48	Continuous Flow NMR with Hyperpolarized Xenon for the Characterization of Materials and Processes. <i>Chemistry of Materials</i> , 2000, 12, 1181-1183.	6.7	67
49	Critical Guest Concentration and Complete Tuning Pattern Appearing in the Binary Clathrate Hydrates. <i>Journal of the American Chemical Society</i> , 2006, 128, 15360-15361.	13.7	65
50	Guest-Host Hydrogen Bonding in Structure H Clathrate Hydrates. <i>ChemPhysChem</i> , 2009, 10, 824-829.	2.1	65
51	Tuning the Composition of Guest Molecules in Clathrate Hydrates: NMR Identification and Its Significance to Gas Storage. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1266-1274.	3.3	65
52	Effect of small cage guests on hydrogen bonding of tetrahydrofuran in binary structure II clathrate hydrates. <i>Journal of Chemical Physics</i> , 2012, 137, 054712.	3.0	65
53	The complex relationship between guest-free polymorphic products and desolvation of p-tert-butylcalix[4]arene inclusion compounds. <i>Chemical Communications</i> , 2003, , 1416.	4.1	64
54	Xe NMR lineshapes in channels of peptide molecular crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17924-17929.	7.1	63

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55	Guest Exchange in Single Crystals of van der Waals Nanocapsules. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1585-1588.	13.8	60
56	Hydrate Research—From Correlations to a Knowledge-based Discipline: The Importance of Structure. <i>Annals of the New York Academy of Sciences</i> , 2000, 912, 1-16.	3.8	59
57	Assessing the performance of commercial and biological gas hydrate inhibitors using nuclear magnetic resonance microscopy and a stirred autoclave. <i>Fuel</i> , 2013, 105, 630-635.	6.4	59
58	Self-Assembly of Lamellar and Expanded Lamellar Coordination Networks. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1407-1409.	13.8	58
59	Methane conversion rate into structure I hydrate crystals from ice. <i>AIChE Journal</i> , 2007, 53, 2451-2460.	3.6	56
60	Water—Halogen Interactions in Chlorine and Bromine Clathrate Hydrates: An Example of Multidirectional Halogen Bonding. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14176-14182.	3.1	55
61	Facilitating guest transport in clathrate hydrates by tuning guest-host interactions. <i>Journal of Chemical Physics</i> , 2015, 142, 074705.	3.0	52
62	Anion pillaring of layered silver coordination networks. <i>Chemical Communications</i> , 1999, , 461-462.	4.1	51
63	Persistent One-Dimensional Face-to-Face $\pi$ -Stacks within Organic Cocrystals. <i>Crystal Growth and Design</i> , 2006, 6, 2427-2428.	3.0	49
64	Occurrence and structural characterization of gas hydrates associated with a cold vent field, offshore Vancouver Island. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	47
65	Communication: Single crystal x-ray diffraction observation of hydrogen bonding between 1-propanol and water in a structure II clathrate hydrate. <i>Journal of Chemical Physics</i> , 2011, 134, 121104.	3.0	47
66	Single Crystals of Naturally Occurring Gas Hydrates: The Structures of Methane and Mixed Hydrocarbon Hydrates. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8220-8222.	13.8	46
67	Structures of Hydrocarbon Hydrates during Formation with and without Inhibitors. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1337-1343.	2.5	46
68	Spectroscopic Observation of Critical Guest Concentration Appearing in <i>tert</i> -Butyl Alcohol Clathrate Hydrate. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8443-8446.	2.6	45
69	Phase Behavior and Structural Characterization of Coexisting Pure and Mixed Clathrate Hydrates. <i>ChemPhysChem</i> , 2003, 4, 379-382.	2.1	43
70	Guest Loading and Multiple Phases in Single Crystals of the van der Waals Host <i>p</i> -tert-Butylcalix[4]arene. <i>Crystal Growth and Design</i> , 2008, 8, 1878-1885.	3.0	43
71	Water molecular reorientation in ice and tetrahydrofuran clathrate hydrate from lineshape analysis of $^{17}\text{O}$ spin-echo NMR spectra. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1055-1064.	1.1	43
72	Loading-dependent structures of $\text{CO}_2$ in the flexible molecular van der Waals host <i>p</i> -tert-butylcalix[4]arene with 1:1 and 2:1 guest:host stoichiometries. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4636.	2.8	42

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73	A New Approach to Characterizing Sorption in Materials with Flexible Micropores. <i>Chemistry of Materials</i> , 2008, 20, 2908-2920.	6.7	41
74	<sup>1</sup> H and <sup>2</sup> H NMR study of pyridinium iodide. Disorder and molecular motion between inequivalent sites. <i>Journal of Chemical Physics</i> , 1986, 85, 747-750.	3.0	40
75	Structural Transition and Tuning of tert-Butylamine Hydrate. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7749-7752.	13.8	40
76	t-Butylcalix[4]arene compounds with long chain guests. <i>Journal of Supramolecular Chemistry</i> , 2001, 1, 97-100.	0.4	39
77	Differences in nucleator adsorption may explain distinct inhibition activities of two gas hydrate kinetic inhibitors. <i>Chemical Engineering Science</i> , 2008, 63, 4026-4029.	3.8	37
78	para-Acylcalix[n]arenes: from molecular to macroscopic assemblies. <i>Chemical Communications</i> , 2008, , 2291.	4.1	37
79	Insights into the Behavior of Biological Clathrate Hydrate Inhibitors in Aqueous Saline Solutions. <i>Crystal Growth and Design</i> , 2014, 14, 2923-2930.	3.0	37
80	Toward a Reactant Library in Template-Directed Solid-State Organic Synthesis: Reactivity Involving a Monofunctional Reactant Based on a Stilbazole. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 4494-4497.	3.7	36
81	A molecular dynamics study of ethanol-water hydrogen bonding in binary structure I clathrate hydrate with CO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2011, 134, 054702.	3.0	36
82	Crystal engineering the clathrate hydrate lattice with NH <sub>4</sub> F. <i>CrystEngComm</i> , 2014, 16, 7209-7217.	2.6	36
83	Molecular Dynamics Simulations of Hydrogen Bonding in Clathrate Hydrates with Ammonia and Methanol Guest Molecules. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 389-397.	1.9	34
84	Dynamic molecular recognition in solids: A synoptic approach to structure determination in p-tert-butylcalix[4]arene-toluene. <i>Supramolecular Chemistry</i> , 1996, 7, 79-83.	1.2	33
85	A Rod-Shaped Guest Leads to Architectural Isomerism in a Multicomponent Crystalline Framework Based on a Resorcin[4]arene. <i>Crystal Growth and Design</i> , 2001, 1, 373-375.	3.0	33
86	Van der Waals Nanocapsular Complexes of Amphiphilic Calixarenes. <i>Crystal Growth and Design</i> , 2006, 6, 2141-2148.	3.0	33
87	Antifreezes Act as Catalysts for Methane Hydrate Formation from Ice. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10429-10433.	13.8	33
88	Quantification of Crystalline and Noncrystalline Material in Ground Kaolinite by X-ray Powder Diffraction, Infrared, Solid-State Nuclear Magnetic Resonance, and Chemical-Dissolution Analyses <sup>1</sup> . <i>Clays and Clay Minerals</i> , 1989, 37, 364-370.	1.3	32
89	t-Butylcalix[4]arene host-guest compounds: Structure and dynamics. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1996, 24, 1-17.	1.6	32
90	Solid-state NMR and diffraction studies of p-tert-butylcalix[4]arene- <i>n</i> -nitrobenzene- <i>n</i> . <i>Chemical Communications</i> , 1997, , 939-940.	4.1	32

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91	Amine guest size and hydrogen-bonding influence the structures of p-tert-butylcalix[4]arene inclusions. <i>Chemical Communications</i> , 2000, , 1905-1906.	4.1	31
92	Hydrogen Adsorption and Diffusion in p-tert-Butylcalix[4]arene: An Experimental and Molecular Simulation Study. <i>Chemistry - A European Journal</i> , 2010, 16, 11689-11696.	3.3	31
93	NMR Studies of Guest Dynamics in Clathrate Hydrates: Spherical Tops SF <sub>6</sub> , SeF <sub>6</sub> and CH <sub>4</sub> in Structure II Hydrate. <i>Journal of Physical Chemistry B</i> , 2004, 108, 929-935.	2.6	30
94	Structure, Dynamics and Ordering in Structure I Ether Clathrate Hydrates from Single-Crystal X-ray Diffraction and 2H NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11366-11372.	2.6	30
95	Probing the Local Structure of Pure Ionic Liquid Salts with Solid and Liquid State NMR. <i>ChemPhysChem</i> , 2010, 11, 260-268.	2.1	29
96	Molecular dynamics study of structure H clathrate hydrates of methane and large guest molecules. <i>Journal of Chemical Physics</i> , 2008, 128, 194505.	3.0	28
97	Probing Transient Hydrate Structures with Hyperpolarized <sup>129</sup> Xe NMR Spectroscopy: A Metastable Structure II Hydrate of Xe. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3890-3892.	13.8	27
98	Molecular Simulations of Methane Hydrate Nucleation. <i>ChemPhysChem</i> , 2010, 11, 978-980.	2.1	27
99	Thermodynamic and Molecular-Scale Analysis of New Systems of Water-Soluble Hydrate Formers + CH <sub>4</sub> . <i>Journal of Physical Chemistry B</i> , 2010, 114, 13393-13398.	2.6	26
100	Bacterial Inhibition of Methane Clathrate Hydrates Formed in a Stirred Autoclave. <i>Energy &amp; Fuels</i> , 2012, 26, 7170-7175.	5.1	25
101	Inhibition Activity of Antifreeze Proteins with Natural Gas Hydrates in Saline and the Light Crude Oil Mimic, Heptane. <i>Energy &amp; Fuels</i> , 2014, 28, 3712-3717.	5.1	25
102	Managing Hydrogen Bonding in Clathrate Hydrates by Crystal Engineering. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6171-6175.	13.8	25
103	Simulations of hydrogen gas in clathrate hydrates. <i>Molecular Simulation</i> , 2017, 43, 808-820.	2.0	25
104	Guest-induced asymmetry in the structure of p-tert-butylcalix[4]arene-nitrobenzene. <i>Supramolecular Chemistry</i> , 1996, 7, 7-9.	1.2	24
105	A molecular turnstile in para-octanoyl calix[4]arene nanocapsules. <i>Chemical Communications</i> , 2007, , 707-709.	4.1	24
106	Enhanced methane storage in clathrate hydrates induced by antifreezes. <i>Chemical Engineering Journal</i> , 2021, 418, 129304.	12.7	24
107	Synthesis and characterization of a structure H hydrate formed with carbon dioxide and 3,3-dimethyl-2-butanone. <i>Chemical Communications</i> , 2013, 49, 505-507.	4.1	23
108	Variable temperature CP/MAS <sup>13</sup> C NMR study of cyclodextrin complexes of benzaldehyde. <i>Journal of Inclusion Phenomena</i> , 1988, 6, 31-40.	0.6	22

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109	Pseudopolymorphism in the p-tert-butylcalix[4]arene-n-butylamine system: directing the structural motifs. <i>Chemical Communications</i> , 2002, , 2162-2163.	4.1	22
110	A reexamination of the low-temperature crystal structure of the p-tert-butylcalix[4]arene-toluene inclusion compound. Differences in spatial averaging with Cu and Mo K $\alpha$ radiation. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 1032-1035.	1.8	22
111	Ordering and Clathrate Hydrate Formation in Co-deposits of Xenon and Water at Low Temperatures. <i>Chemistry - A European Journal</i> , 2003, 9, 2969-2973.	3.3	22
112	Proton and deuteron nuclear magnetic resonance study of host and guest motions in ethylene oxide-d4 clathrate hydrate. <i>Canadian Journal of Chemistry</i> , 1976, 54, 3677-3684.	1.1	21
113	Locating Dynamic Species with X-ray Crystallography and NMR Spectroscopy: Acetone in p-tert-Butylcalix[4]arene. <i>ChemPhysChem</i> , 2003, 4, 1059-1064.	2.1	21
114	Electrostatic and short-range interactions compete in directing the structure of p-tert-butylcalix[4]arene inclusion compounds of fluorinated benzenes. Electronic supplementary information (ESI) available: X-ray details. See <a href="http://www.rsc.org/suppdata/cc/b4/b401269k/">http://www.rsc.org/suppdata/cc/b4/b401269k/</a> . <i>Chemical Communications</i> , 2004, , 1360.	4.1	21
115	Sieving of Hydrogen-Containing Gas Mixtures with Tetrahydrofuran Hydrate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27822-27829.	3.1	21
116	Molecular Dynamics Simulations of p-tert-Butylcalix[4]arene with Small Guest Molecules. <i>Chemistry - A European Journal</i> , 2006, 12, 5231-5237.	3.3	20
117	Interactions between Structure H Hydrate Formers and Water Molecules. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9106-9113.	3.1	20
118	<sup>13</sup> C CP MAS NMR of halogenated (Cl, Br, I) pharmaceuticals at ultrahigh magnetic fields. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 398-406.	1.9	20
119	Disorder of Hydrofluorocarbon Molecules Entrapped in the Water Cages of Structure I Clathrate Hydrate. <i>Chemistry - A European Journal</i> , 2016, 22, 7567-7573.	3.3	20
120	Managing Hydrogen Bonding in Clathrate Hydrates by Crystal Engineering. <i>Angewandte Chemie</i> , 2017, 129, 6267-6271.	2.0	20
121	$\pi$ -Methyl interactions and p-tert-butylcalix[4]arene-guest stability: NMR and crystallographic studies of cyclohexane and n-pentane inclusion compounds. <i>Supramolecular Chemistry</i> , 1996, 7, 143-145.	1.2	19
122	Some New Halogen-containing Hydrate-formers for Structure I and II Clathrate Hydrates. <i>Supramolecular Chemistry</i> , 1997, 8, 361-367.	1.2	19
123	Transformation of the Hexagonal Structure Clathrate Hydrate of Cyclooctane to a Low Symmetry Form Below 167 K. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9704-9707.	13.8	19
124	<sup>35</sup> Cl Solid-State NMR of Halide Ionic Liquids at Ultrahigh Fields. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12527-12529.	2.5	19
125	Pulsed nuclear magnetic resonance study of deuteron lineshapes in clathrate hydrates. <i>Canadian Journal of Chemistry</i> , 1977, 55, 78-81.	1.1	18
126	Inter-cage dynamics in structure I, II, and H fluoromethane hydrates as studied by NMR and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2014, 140, 214703.	3.0	18



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127	Phase Transition of a Structure II Cubic Clathrate Hydrate to a Tetragonal Form. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9287-9291.	13.8	17
128	Low-Pressure Synthesis and Characterization of Hydrogen-Filled Ice. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1531-1534.	13.8	16
129	Stabilization of Methane Hydrate by Pressurization with He or N <sub>2</sub> Gas. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14163-14168.	2.6	15
130	Simulations of <i>p</i> -tert-Butylcalix[4]arene with Multiple Occupancies of Small Guest Molecules. <i>Chemistry - A European Journal</i> , 2008, 14, 1965-1971.	3.3	15
131	Cross relaxation in NMR studies of crystalline symmetrical trifluorobenzene (C <sub>6</sub> H <sub>3</sub> F <sub>3</sub> ). <i>Journal of Chemical Physics</i> , 1979, 70, 1352-1358.	3.0	14
132	Clathrate Hydrates. , 2004, , 274-280.		14
133	NMR line shapes of tunneling methyl groups in enclathrated molecules. <i>Journal of Chemical Physics</i> , 1978, 68, 1835-1840.	3.0	13
134	Superheating Clathrate Hydrates for Anomalous Preservation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17019-17023.	3.1	13
135	Approaches to the Design of Better Low-Dosage Gas Hydrate Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5402-5404.	13.8	12
136	Chlorine-35 Solid-State Nuclear Magnetic Resonance Spectroscopy as an Indirect Probe of the Oxidation Number of Tin in Tin Chlorides. <i>Inorganic Chemistry</i> , 2020, 59, 13651-13670.	4.0	11
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