

# Radu Custelcean

## List of Publications by Year in descending order

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117  
papers

7,067  
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61984  
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58581  
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138  
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138  
docs citations

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times ranked

7348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic direct air capture of CO <sub>2</sub> with aqueous guanidine/amino acid solvents. <i>MRS Advances</i> , 2022, 7, 399-403.	0.9	9
2	A Photoresponsive Receptor with a 10 <sup>5</sup> Magnitude of Reversible Anion Binding Switching. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	2
3	Anti-electrostatic hydrogen-bonded tellurate dimers captured and stabilized by crystallization of a bis-iminoguanidinium salt. <i>Polyhedron</i> , 2022, 223, 115990.	2.2	0
4	Reducing Atmospheric Carbon Dioxide Through Direct Air Capture. , 2021, , .		1
5	Direct air capture of CO <sub>2</sub> with aqueous peptides and crystalline guanidines. <i>Cell Reports Physical Science</i> , 2021, 2, 100385.	5.6	22
6	Carbon dioxide capture with aqueous amino acids: Mechanistic study of amino acid regeneration by guanidine crystallization and process intensification. <i>Separation and Purification Technology</i> , 2021, 271, 118839.	7.9	16
7	A Process Intensification Approach for CO <sub>2</sub> Absorption Using Amino Acid Solutions and a Guanidine Compound. <i>Energies</i> , 2021, 14, 5821.	3.1	8
8	Direct air capture of CO <sub>2</sub> via crystal engineering. <i>Chemical Science</i> , 2021, 12, 12518-12528.	7.4	38
9	Direct air capture with bis-iminoguanidines: From discovery to commercialization. <i>CheM</i> , 2021, 7, 2848-2852.	11.7	6
10	Crystal Synthesis and Frustrated Magnetism in Triangular Lattice Cs <i>i</i> RE <i>j</i> Se <sub>2</sub> ( <i>i</i> RE <i>j</i> = La <sup>6</sup> Lu): Quantum Spin Liquid Candidates CsCeSe <sub>2</sub> and CsYbSe <sub>2</sub> . , 2020, 2, 71-75.		49
11	Iminoguanidines: from anion recognition and separation to carbon capture. <i>Chemical Communications</i> , 2020, 56, 10272-10280.	4.1	16
12	Dialing in Direct Air Capture of CO <sub>2</sub> by Crystal Engineering of Bisiminoguanidines. <i>ChemSusChem</i> , 2020, 13, 6381-6390.	6.8	23
13	Hybrid Absorption-Crystallization Strategies for the Direct Air Capture of CO <sub>2</sub> Using Phase-Changing Guanidium Bases: Insights from in Operando X-ray Scattering and Infrared Spectroscopy Measurements. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20953-20959.	3.7	6
14	Synergistic Self-Assembly of Oxoanions and Block Metal Ions with Heteroditopic Receptors into Triple-Stranded Helicates. <i>Chemistry - A European Journal</i> , 2020, 26, 14290-14294.	3.3	3
15	Selective binding of (thio)sulfate and phosphate in water by quaternary ammonium functionalized oligo-ureas. <i>Chemical Communications</i> , 2019, 55, 1714-1717.	4.1	9
16	CO <sub>2</sub> Capture via Crystalline Hydrogen-Bonded Bicarbonate Dimers. <i>CheM</i> , 2019, 5, 719-730.	11.7	64
17	Energy-Efficient CO <sub>2</sub> Capture from Flue Gas by Absorption with Amino Acids and Crystallization with a Bis-Iminoguanidine. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10510-10515.	3.7	19
18	CO <sub>2</sub> absorption from simulated flue gas in a bubble column. <i>Separation Science and Technology</i> , 2019, 54, 2034-2046.	2.5	4

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19	Simulation of carbon dioxide absorption by amino acids in two-phase batch and bubble column reactors. <i>Separation Science and Technology</i> , 2019, 54, 2013-2025.	2.5	3
20	Enhancing selectivity of cation exchange with anion receptors. <i>Chemical Communications</i> , 2019, 55, 3590-3593.	4.1	8
21	Direct Air Capture of CO <sub>2</sub> with Aqueous Amino Acids and Solid Bis-iminoguanidines (BIGs). <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 23338-23346.	3.7	49
22	Synthesis, magnetization, and heat capacity of triangular lattice materials $\text{xmlns:mml} = \text{"http://www.w3.org/1998/Math/MathML"}$ $<\text{mml:msub}><\text{mml:mi}>\text{NaErSe}</\text{mml:mi}><\text{mml:mn}>2</\text{mml:mn}></\text{mml:msub}>$ $\text{and } <\text{mml:math}$ $\text{xmlns:mml} = \text{"http://www.w3.org/1998/Math/MathML"}$ $<\text{mml:msub}><\text{mml:mi}>\text{KErSe}</\text{mml:mi}><\text{mml:mn}>2</\text{mml:mn}></\text{mml:msub}>$ $</\text{mml:math}>$ <i>Physical Review Materials</i> , 2019, 3, .	2.4	25
23	Direct air capture of CO <sub>2</sub> â€“ topological analysis of the experimental electron density (QTAIM) of the highly insoluble carbonate salt of a 2,6-pyridine-bis(iminoguanidine), (PyBIGH <sub>2</sub> )(CO <sub>3</sub> )(H <sub>2</sub> O) <sub>4</sub> . <i>IUCrJ</i> , 2019, 6, 56-65.	2.2	11
24	Direct air capture of CO <sub>2</sub> via aqueous-phase absorption and crystalline-phase release using concentrated solar power. <i>Nature Energy</i> , 2018, 3, 553-559.	39.5	140
25	Mineralâ€“Water Interface Structure of Xenotime (YPO <sub>4</sub> ) {100}. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20232-20243.	3.1	10
26	Surprisingly selective sulfate extraction by a simple monofunctional di(imino)guanidinium micelle-forming anion receptor. <i>Chemical Communications</i> , 2018, 54, 10048-10051.	4.1	27
27	Bis-lactam-1,10-phenanthroline (BLPhen), a New Type of Preorganized Mixed N,O-Donor Ligand That Separates Am(III) over Eu(III) with Exceptionally High Efficiency. <i>Inorganic Chemistry</i> , 2017, 56, 5911-5917.	4.0	64
28	CO <sub>2</sub> Capture from Ambient Air by Crystallization with a Guanidine Sorbent. <i>Angewandte Chemie</i> , 2017, 129, 1062-1065.	2.0	21
29	CO <sub>2</sub> Capture from Ambient Air by Crystallization with a Guanidine Sorbent. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1042-1045.	13.8	89
30	Selective binding of choline by a phosphate-coordination-based triple helicate featuring an aromatic box. <i>Nature Communications</i> , 2017, 8, 938.	12.8	56
31	Berichtigung: Aqueous Sulfate Separation by Crystallization of Sulfateâ€“Water Clusters. <i>Angewandte Chemie</i> , 2016, 128, 1985-1985.	2.0	0
32	Sulfate Separation by Selective Crystallization with a Bis-iminoguanidinium Ligand. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
33	Anomalous magneto-elastic and charge doping effects in thallium-doped BaFe <sub>2</sub> As <sub>2</sub> . <i>Scientific Reports</i> , 2016, 6, 21660.	3.3	4
34	Aqueous Sulfate Separation by Sequestration of [(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ] <sup>4-</sup> Clusters within Highly Insoluble Imino-linked Bisâ€“Guanidinium Crystals. <i>Chemistry - A European Journal</i> , 2016, 22, 1997-2003.	3.3	39
35	$\text{[}\pm,\pm\text{]}\text{--meso--tetrahexyltetramethyl-calix[4]pyrrole}$ : an easy-to-prepare, isomerically pure anion extractant with enhanced solubility in organic solvents. <i>Supramolecular Chemistry</i> , 2016, 28, 176-187. $\text{xmlns:mml} = \text{"http://www.w3.org/1998/Math/MathML"}$ $<\text{mml:mrow}><\text{mml:mi}>\text{S}</\text{mml:mi}><\text{mml:msub}><\text{mml:mi}$ $\text{mathvariant}=\text{"normal"}>\text{S}</\text{mml:mi}><\text{mml:msub}><\text{mml:mi}$ $\text{mathvariant}=\text{"normal"}>\text{r}</\text{mml:mi}><\text{mml:mn}>2</\text{mml:mn}></\text{mml:msub}><\text{mml:mi}>\text{lr}</\text{mml:mi}><\text{mml:msub}><\text{mml:mi}$ $\text{mathvariant}=\text{"normal"}>\text{O}</\text{mml:mi}><\text{mml:mn}>4</\text{mml:mn}></\text{mml:msub}></\text{mml:mrow}></\text{mml:math}>$ <i>Physical Review B</i> , 2015, 92, .	1.2	8
36	$\text{[}\pm,\pm\text{]}\text{--meso--tetrahexyltetramethyl-calix[4]pyrrole}$ : an easy-to-prepare, isomerically pure anion extractant with enhanced solubility in organic solvents. <i>Supramolecular Chemistry</i> , 2016, 28, 176-187. $\text{xmlns:mml} = \text{"http://www.w3.org/1998/Math/MathML"}$ $<\text{mml:mrow}><\text{mml:mi}>\text{S}</\text{mml:mi}><\text{mml:msub}><\text{mml:mi}$ $\text{mathvariant}=\text{"normal"}>\text{S}</\text{mml:mi}><\text{mml:msub}><\text{mml:mi}$ $\text{mathvariant}=\text{"normal"}>\text{r}</\text{mml:mi}><\text{mml:mn}>2</\text{mml:mn}></\text{mml:msub}><\text{mml:mi}>\text{lr}</\text{mml:mi}><\text{mml:msub}><\text{mml:mi}$ $\text{mathvariant}=\text{"normal"}>\text{O}</\text{mml:mi}><\text{mml:mn}>4</\text{mml:mn}></\text{mml:msub}></\text{mml:mrow}></\text{mml:math}>$ <i>Physical Review B</i> , 2015, 92, .	3.2	38

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37	Aqueous Sulfate Separation by Crystallization of Sulfateâ€“Water Clusters. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10525-10529.	13.8	47
38	Sodium Sulfate Separation from Aqueous Alkaline Solutions via Crystalline Urea-Functionalized Capsules: Thermodynamics and Kinetics of Crystallization. <i>Crystal Growth and Design</i> , 2015, 15, 517-522.	3.0	20
39	Alkali metal cation complexation by 1,3-alternate, mono-ionisable calix[4]arene-benzocrown-6 compounds. <i>Supramolecular Chemistry</i> , 2015, 27, 59-64.	1.2	1
40	Crystal structure and thermal expansion of a CsCe <sub>2</sub> Cl <sub>7</sub> scintillator. <i>Journal of Solid State Chemistry</i> , 2015, 227, 142-149.	2.9	6
41	A conformationally persistent pseudo-bicyclic guanidinium for anion coordination as stabilized by dual intramolecular hydrogen bonds. <i>RSC Advances</i> , 2015, 5, 107266-107269.	3.6	9
42	Nitrogen-doped porous aromatic frameworks for enhanced CO <sub>2</sub> adsorption. <i>Journal of Colloid and Interface Science</i> , 2015, 438, 191-195.	9.4	32
43	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithiumâ€“Ion Battery Applications. <i>Advanced Energy Materials</i> , 2014, 4, 1301368.	19.5	43
44	Anion encapsulation and dynamics in self-assembled coordination cages. <i>Chemical Society Reviews</i> , 2014, 43, 1813-1824. <small>http://dx.doi.org/10.1039/C3CS00001A</small>	38.1	226
45	Two-leg ladder antiferromagnet $\text{Fe}_{\langle \text{sub} \rangle 1 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{Pd}_{\langle \text{sub} \rangle \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{Te}$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9283-9288.	3.2	17
46	New cerium-based metalâ€“organic scintillators for radiation detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 703, 138-144.	1.6	5
47	Highly soluble alkoxide magnesium salts for rechargeable magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 581-584.	10.3	66
48	De Novo Structure-Based Design of Ion-Pair Triple-Stranded Helicates. <i>Inorganic Chemistry</i> , 2014, 53, 3893-3898.	4.0	19
49	Interplay between superconductivity and magnetism in $\text{Fe}_{\langle \text{sub} \rangle 1 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{Pd}_{\langle \text{sub} \rangle \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{Te}$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9283-9288.	7.1	21
50	Origin of the phase transition in $\text{IrTe}_{\langle \text{sub} \rangle 2 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle}$ : Structural modulation and local bonding instability. <i>Physical Review B</i> , 2013, 88, .	3.2	62
51	Urea-functionalized crystalline capsules for recognition and separation of tetrahedral oxoanions. <i>Chemical Communications</i> , 2013, 49, 2173.	4.1	106
52	A Case for Molecular Recognition in Nuclear Separations: Sulfate Separation from Nuclear Wastes. <i>Inorganic Chemistry</i> , 2013, 52, 3473-3490.	4.0	130
53	Dihydrogen Phosphate Clusters: Trapping $\text{H}_{\langle \text{sub} \rangle 2 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{PO}_{\langle \text{sub} \rangle 4 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{PO}_{\langle \text{sub} \rangle 4 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle} \text{PO}_{\langle \text{sub} \rangle 4 \text{â}^{\wedge} \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \times \langle \text{i} \rangle \text{sub} \rangle}$ Tetramers and Hexamers in Urea-Functionalized Molecular Crystals. <i>Crystal Growth and Design</i> , 2013, 13, 2233-2237.	3.0	37
54	The observation of scintillation in a hydrated inorganic compound: $\text{CeCl}_3 \cdot 6\text{H}_2\text{O}$ . <i>Applied Physics Letters</i> , 2013, 103, 141909.	3.3	4

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55	$\text{La}_{2-x}\text{Sr}_x\text{CoO}_{3-\delta}$ $\text{La}_{2-x}\text{Sr}_x\text{Fe}_{1.6}\text{Se}_2$ $\text{IrO}_{3-x}\text{Ca}_{x/2}\text{Eu}_{(1-x)/2}\text{Yb}_{(1-x)/2}$	3.2	2
56	Evolution of the nuclear and magnetic structures of $\text{TiFe}_{1.6}\text{Se}_2$ with temperature. <i>Physical Review B</i> , 2012, 86, .	3.2	11
57	Direct evidence of a zig-zag spin-chain structure in the honeycomb lattice: A neutron and x-ray diffraction investigation of single-crystal $\text{Na}_{2}\text{IrO}_3$ . <i>Physical Review B</i> , 2012, 85, .	3.2	318
58	Properties of single crystalline $\text{A}_{1-x}\text{Zn}_{2}\text{Sb}_2$ ( $\text{A}=\text{Ca}, \text{Eu}, \text{Yb}$ ). <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	50
59	Degradation of CYANEX 301 in Contact with Nitric Acid Media. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 13238-13244.	3.7	19
60	How Amidoximate Binds the Uranyl Cation. <i>Inorganic Chemistry</i> , 2012, 51, 3855-3859.	4.0	175
61	Cyclic Imide Dioximes: Formation and Hydrolytic Stability. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 6619-6624.	3.7	76
62	New Family of Cerium Halide Based Materials: $\text{CeX}_3\text{ROH}$ Compounds Containing Planes, Chains, and Tetradecanuclear Rings. <i>Inorganic Chemistry</i> , 2012, 51, 10503-10511.	4.0	6
63	Computer-Aided Design of Interpenetrated Tetrahydrofuran-Functionalized 3D Covalent Organic Frameworks for $\text{CO}_2$ Capture. <i>Crystal Growth and Design</i> , 2012, 12, 5349-5356.	3.0	37
64	Oxidative degradation of bis(2,4,4-trimethylpentyl)dithiophosphinic acid in nitric acid studied by electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2195-2203.	1.5	12
65	Structure and selectivity trends in crystalline urea-functionalised anion-binding capsules. <i>Supramolecular Chemistry</i> , 2012, 24, 65-71.	1.2	12
66	Urea-Functionalized $\text{M}_4\text{L}_6$ Cage Receptors: Anion-Templated Self-Assembly and Selective Guest Exchange in Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2012, 134, 8525-8534.	13.7	217
67	Crystals for neutron scattering studies of quantum magnetism. <i>Philosophical Magazine</i> , 2012, 92, 2629-2647.	1.6	23
68	Ion-pair triple helicates and mesocates self-assembled from ditopic 2,2-bipyridine-bis(urea) ligands and $\text{Ni}^{(ii)}$ or $\text{Fe}^{(ii)}$ sulfate salts. <i>Chemical Communications</i> , 2012, 48, 7438.	4.1	28
69	New crystal structural families of lanthanide chloride alcohol/water complexes. <i>Inorganica Chimica Acta</i> , 2012, 384, 23-28.	2.4	6
70	Thermodynamic, kinetic, and structural factors in the synthesis of imine-linked dynamic covalent frameworks. <i>Tetrahedron</i> , 2012, 68, 53-64.	1.9	27
71	Sulfate Separation from Aqueous Alkaline Solutions by Selective Crystallization of Alkali Metal Coordination Capsules. <i>Crystal Growth and Design</i> , 2011, 11, 2702-2706.	3.0	66
72	Structure and Properties of Single Crystalline $\text{CaMg}_2\text{Bi}_2$ , $\text{EuMg}_2\text{Bi}_2$ , and $\text{YbMg}_2\text{Bi}_2$ . <i>Inorganic Chemistry</i> , 2011, 50, 11127-11133.	4.0	74

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73	Dynamic Chemistry of Anion Recognition. <i>Topics in Current Chemistry</i> , 2011, 322, 193-216.		4.0	21
74	Supramolecular organization of calix[4]pyrrole with a methyl-trialkylammonium anion exchanger leads to remarkable reversal of selectivity for sulfate extraction vs. nitrate. <i>Chemical Communications</i> , 2011, 47, 7611.		4.1	40
75	Selectivity Principles in Anion Separation by Crystallization of Hydrogen-Bonding Capsules. <i>Journal of the American Chemical Society</i> , 2010, 132, 7177-7185.		13.7	114
76	Anions in crystal engineering. <i>Chemical Society Reviews</i> , 2010, 39, 3675.		38.1	160
77	A New Scintillator for Fast Neutron Detection: Single-Crystal $\{m\text{ CeCl}\}_{\{3\}}(\{m\text{ CH}\}_{\{3\}}\{m\})$ . <i>J. ETQq1 1 0.784314_{2.6}^{10}</i> TgBT /Overlock 10 TgBT			
78	Synthesis and structural characterization of<math>\text{Ce}(\text{CH}_3)_3\text{Cl}_3</math>. <i>Journal of the American Chemical Society</i> , 2009, 131, 15822-15829. Metal-organic compound with Heisenberg antiferromagnetic<math>\text{Ce}(\text{CH}_3)_3\text{Cl}_3</math>. <i>Physical Review B</i> , 2009, 80, .			
79	Computer-aided Design of a Sulfate-Encapsulating Receptor. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4025-4029.		13.8	189
80	Mono-ionizable calix[4]arene-benzocrown-6 ligands in 1,3-alternate conformations: synthesis, structure and silver(I) extraction. <i>Tetrahedron</i> , 2009, 65, 7777-7783.		1.9	15
81	2,2,3,3,11,11,12,12-Octamethyl-1,4,7,10,13-pentaoxacyclohexadecane: improved synthesis and crystal structure with NaSCN. <i>Tetrahedron Letters</i> , 2009, 50, 2936-2938.		1.4	1
82	Selective Crystallization of Urea-Functionalized Capsules with Tunable Anion-Binding Cavities. <i>Crystal Growth and Design</i> , 2009, 9, 1985-1989.		3.0	55
83	Ion separation by selective crystallization of organic frameworks. <i>Current Opinion in Solid State and Materials Science</i> , 2009, 13, 68-75.		11.5	28
84	Anion-Interactions in Crystal Structures: Commonplace or Extraordinary?. <i>Crystal Growth and Design</i> , 2009, 9, 2539-2545.		3.0	123
85	Sulfate Recognition by Persistent Crystalline Capsules with Rigidified Hydrogen-Bonding Cavities. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1866-1870.		13.8	179
86	Crystal engineering with urea and thiourea hydrogen-bonding groups. <i>Chemical Communications</i> , 2008, , 295-307.		4.1	294
87	Cerium Chloride-methanol Adduct Crystals, $\text{CeCl}_3(\text{CH}_3\text{OH})_4$ : Preparation, Crystallography, And Scintillation Properties. <i>Crystal Growth and Design</i> , 2008, 8, 2070-2072.		3.0	19
88	Hydrogen-Bonded Helices for Anion Binding and Separation. <i>Crystal Growth and Design</i> , 2008, 8, 1909-1915.		3.0	50
89	Single-crystal $\text{CeCl}_3(\text{CH}_3\text{OH})_4$ : A new metal-organic cerium chloride methanol adduct for scintillator applications. <i>Applied Physics Letters</i> , 2008, 93, .		3.3	11
90	Sulfate separation by selective crystallization of a urea-functionalized metal-organic framework. <i>Chemical Communications</i> , 2007, , 1541-1543.		4.1	103

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91	Anion Separation with Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1321-1340.	2.0	341
92	Structural modulation in K <sub>2</sub> V <sub>3</sub> O <sub>8</sub> . <i>Journal of Solid State Chemistry</i> , 2007, 180, 812-817.	2.9	12
93	Crystalline hydrogen-bonded nanocolumns of cyclic thiourea octamers. <i>CrystEngComm</i> , 2007, 9, 452.	2.6	25
94	Anion Separation by Selective Crystallization of Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2006, 45, 6446-6452.	4.0	90
95	Anion Coordination in Metal-Organic Frameworks Functionalized with Urea Hydrogen-Bonding Groups. <i>Crystal Growth and Design</i> , 2006, 6, 555-563.	3.0	101
96	Calix[4]pyrrole: An Old yet New Ion-Pair Receptor. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2537-2542.	13.8	255
97	Steric Control over Hydrogen Bonding in Crystalline Organic Solids: A Structural Study of N,N'-Dialkylthioureas. <i>Chemistry - A European Journal</i> , 2005, 11, 1459-1466.	3.3	81
98	Structural Reinvestigation of Ammonium Hypophosphite: Was Dihydrogen Bonding Observed Long Ago?. <i>ChemInform</i> , 2005, 36, no.	0.0	0
99	A Metal-Organic Framework Functionalized with Free Carboxylic Acid Sites and Its Selective Binding of a Cl(H <sub>2</sub> O) <sub>4</sub> -Cluster. <i>Journal of the American Chemical Society</i> , 2005, 127, 16362-16363.	13.7	208
100	Protonation-assisted spontaneous resolution: formation of a homochiral 2D interpenetrated hydrogen-bonded network from 4,4'-binicotinic acid under highly acidic conditions. <i>CrystEngComm</i> , 2005, 7, 297-301.	2.6	17
101	Structural Reinvestigation of Ammonium Hypophosphite: Was Dihydrogen Bonding Observed Long Ago?. <i>Inorganic Chemistry</i> , 2005, 44, 45-48.	4.0	5
102	Chiral Discrimination in Low-Density Hydrogen-Bonded Frameworks. <i>Crystal Growth and Design</i> , 2005, 5, 2277-2287.	3.0	43
103	A coordinatively saturated sulfate encapsulated in a metal-organic framework functionalized with urea hydrogen-bonding groups. <i>Chemical Communications</i> , 2005, , 5971.	4.1	168
104	Tricyanovinyl-Substituted Oligothiophenes. <i>Chemistry of Materials</i> , 2003, 15, 616-618.	6.7	53
105	Dihydrogen Bonding under High Pressure: A Raman Study of BH <sub>3</sub> NH <sub>3</sub> Molecular Crystal. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9231-9235.	2.6	92
106	Supramolecular Synthesis through Dihydrogen Bonds: Self-Assembly of Controlled Architectures from NaBH <sub>4</sub> -Poly(2-hydroxyethyl)cyclen Building Blocks. <i>Chemistry - A European Journal</i> , 2002, 8, 302-308.	3.3	23
107	Hydrogen-Bonded Helices in Crystals with Prescribed Organization. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1724-1728.	13.8	56
108	A mechanistic study of a topochemical dihydrogen to covalent bonding transformation. <i>Thermochimica Acta</i> , 2002, 388, 143-150.	2.7	8

#	ARTICLE		IF	CITATIONS
109	Dihydrogen Bonding: Structures, Energetics, and Dynamics. <i>Chemical Reviews</i> , 2001, 101, 1963-1980.	47.7	600	
110	Formation of Extended Tapes of Cyclic Water Hexamers in an Organic Molecular Crystal Host. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3094-3096.	13.8	264	
111	Toward Crystalline Covalent Solids: Crystal-to-Crystal Dihydrogen to Covalent Bonding Transformation in NaBH4...THEC. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3299-3302.	13.8	28	
112	3-Ethyl-6-methyl-isocytosines: Synthesis and Solid State Structural Analysis. <i>Tetrahedron</i> , 2000, 56, 5067-5075.	1.9	4	
113	Topochemical Dihydrogen to Covalent Bonding Transformation in LiBH4·TEA: A Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2000, 122, 5251-5257.	13.7	32	
114	Title is missing!. <i>Structural Chemistry</i> , 1999, 10, 303-310.	2.0	4	
115	Tuning Dihydrogen Bonds: Enhanced Solid-State Reactivity in a Dihydrogen-Bonded System with Exceptionally Short H...H Distances. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1661-1663.	13.8	34	
116	Syntheses and Crystal Structures of 9-Acetyl- and 9-Cyano-1,2-dicarbadodecaborane: Supramolecular Association in Carboranyl C <sup>2</sup> H Hydrogen-Bonded ±-Networks. <i>Inorganic Chemistry</i> , 1999, 38, 4916-4919.	4.0	27	
117	Topochemical Control of Covalent Bond Formation by Dihydrogen Bonding. <i>Journal of the American Chemical Society</i> , 1998, 120, 12935-12941.	13.7	65	