

Juergen Senker

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182

papers

8,810

citations

45

h-index

90

g-index

203

ext. papers

9,795

ext. citations

6

avg, IF

6.04

L-index

#	Paper	IF	Citations
182	Melem (2,5,8-triamino-tri-s-triazine), an important intermediate during condensation of melamine rings to graphitic carbon nitride: synthesis, structure determination by X-ray powder diffractometry, solid-state NMR, and theoretical studies. <i>Journal of the American Chemical Society</i> , 2007, 129, 10200-10201	16.4	805
181	Unmasking melon by a complementary approach employing electron diffraction, solid-state NMR spectroscopy, and theoretical calculations-structural characterization of a carbon nitride polymer. <i>Chemistry - A European Journal</i> , 2007, 13, 4969-80	4.8	638
180	Crystalline carbon nitride nanosheets for improved visible-light hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2014, 136, 1730-3	16.4	509
179	Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. <i>Nature Communications</i> , 2016, 7, 12165	17.4	417
178	Triazine-based carbon nitrides for visible-light-driven hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2435-9	16.4	332
177	Synthesis and modification of a functionalized 3D open-framework structure with MIL-53 topology. <i>Inorganic Chemistry</i> , 2009, 48, 3057-64	5.1	324
176	Low-molecular-weight carbon nitrides for solar hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2015, 137, 1064-72	16.4	267
175	Pt@MOF-177: synthesis, room-temperature hydrogen storage and oxidation catalysis. <i>Chemistry - A European Journal</i> , 2008, 14, 8204-12	4.8	252
174	Poly(triazine imide) with intercalation of lithium and chloride ions $[(C_3N_3)_2(NH(x)Li(1-x))_3?LiCl]$: a crystalline 2D carbon nitride network. <i>Chemistry - A European Journal</i> , 2011, 17, 3213-21	4.8	233
173	$[Al_4(OH)_2(OCH_3)_4(H_2N-bdc)_3] \times xH_2O$: a 12-connected porous metal-organic framework with an unprecedented aluminum-containing brick. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5163-6	16.4	233
172	Microporous Functionalized Triazine-Based Polyimides with High CO ₂ Capture Capacity. <i>Chemistry of Materials</i> , 2013, 25, 970-980	9.6	219
171	Phenyl-triazine oligomers for light-driven hydrogen evolution. <i>Energy and Environmental Science</i> , 2015, 8, 3345-3353	35.4	190
170	Performance improvement of nanocatalysts by promoter-induced defects in the support material: methanol synthesis over Cu/ZnO:Al. <i>Journal of the American Chemical Society</i> , 2013, 135, 6061-8	16.4	160
169	Ab initio calculation of solid-state NMR spectra for different triazine and heptazine based structure proposals of g-C ₃ N ₄ . <i>Journal of Physical Chemistry B</i> , 2007, 111, 10671-80	3.4	147
168	A fluorene based covalent triazine framework with high CO ₂ and H ₂ capture and storage capacities. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5928-5936	13	138
167	Mechanism of the transformation of silica precursor solutions into Si-MFI zeolite. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2558-61	16.4	113
166	Melamine-melem adduct phases: investigating the thermal condensation of melamine. <i>Chemistry - A European Journal</i> , 2009, 15, 13161-70	4.8	97

165	Nanoplatelets of sodium hectorite showing aspect ratios of 10,000 and superior purity. <i>Langmuir</i> , 2013 , 29, 1280-5	4	91
164	Structure elucidation of polyheptazine imide by electron diffraction--a templated 2D carbon nitride network. <i>Chemical Communications</i> , 2009 , 1541-3	5.8	88
163	Donor-Acceptor-Type Heptazine-Based Polymer Networks for Photocatalytic Hydrogen Evolution. <i>Energy Technology</i> , 2016 , 4, 744-750	3.5	85
162	High-Pressure Synthesis of EP N at 11 GPa and 1500 °C in a Multianvil Assembly: A Binary Phosphorus(V) Nitride with a Three-Dimensional Network Structure from PN Tetrahedra and Tetragonal PN Pyramids. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2643-2645	16.4	82
161	The spectral density in simple organic glass formers: Comparison of dielectric and spin-lattice relaxation. <i>Journal of Chemical Physics</i> , 1999 , 110, 12011-12022	3.9	80
160	Structural Insights into Poly(Heptazine Imides): A Light-Storing Carbon Nitride Material for Dark Photocatalysis. <i>Chemistry of Materials</i> , 2019 , 31, 7478-7486	9.6	75
159	Porous imine-based networks with protonated imine linkages for carbon dioxide separation from mixtures with nitrogen and methane. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18492-18504	13	73
158	Polymorphism in benzamide: solving a 175-year-old riddle. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6729-31	16.4	70
157	Enhancing the water stability of Al-MIL-101-NH ₂ via postsynthetic modification. <i>Chemistry - A European Journal</i> , 2015 , 21, 314-23	4.8	67
156	A new Al-MOF based on a unique column-shaped inorganic building unit exhibiting strongly hydrophilic sorption behaviour. <i>Chemical Communications</i> , 2012 , 48, 9486-8	5.8	66
155	Formation and characterization of melam, melam hydrate, and a melam-melam adduct. <i>Chemistry - A European Journal</i> , 2013 , 19, 2041-9	4.8	64
154	Molecular Motion in the Two Amorphous Phases of Triphenyl Phosphite. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 1727-1737	3.4	64
153	Triazine-based Carbon Nitrides for Visible-Light-Driven Hydrogen Evolution. <i>Angewandte Chemie</i> , 2013 , 125, 2495-2499	3.6	62
152	[Al ₄ (OH) ₂ (OCH ₃) ₄ (H ₂ N-bdc) ₃]·x H ₂ O: A 12-Connected Porous Metal-Organic Framework with an Unprecedented Aluminum-Containing Brick. <i>Angewandte Chemie</i> , 2009 , 121, 5265-5268	3.6	62
151	NMR Crystallography. <i>Annual Reports on NMR Spectroscopy</i> , 2014 , 82, 1-57	1.7	60
150	The tautomeric forms of cyameluric acid derivatives. <i>Chemistry - A European Journal</i> , 2007 , 13, 1158-73	4.8	58
149	Covalent Grafting to Hydroxy-Capped Surfaces? A Kaolinite Case Study. <i>Chemistry of Materials</i> , 2011 , 23, 3152-3158	9.6	56
148	Tackling the stacking disorder of melon--structure elucidation in a semicrystalline material. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2227-37	3.6	55

147	Impact of initial solvent on thermal stability and mechanical properties of recombinant spider silk films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13594	55
146	A new aluminium-based microporous metalorganic framework: Al(BTB) (BTB=1,3,5-benzenetrisbenzoate). <i>Microporous and Mesoporous Materials</i> , 2012 , 157, 50-55	5.3 53
145	The stuffed framework structure of SrP2N4: challenges to synthesis and crystal structure determination. <i>Chemistry - A European Journal</i> , 2007 , 13, 6841-52	4.8 51
144	Hollow silica sphere colloidal crystals: insights into calcination dependent thermal transport. <i>Nanoscale</i> , 2015 , 7, 10059-70	7.7 50
143	Systematic investigation of lanthanide phosphonatoethanesulfonate framework structures by high-throughput methods, Ln(O3P-C2H4-SO3)(H2O) (Ln=La-Dy). <i>Inorganic Chemistry</i> , 2007 , 46, 9968-74	5.1 50
142	HP-KB3O5 Highlights the Structural Diversity of Borates: Corner-Sharing BO ₃ /BO ₄ Groups in Combination with Edge-Sharing BO ₄ Tetrahedra. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 4147-4152	2.3 49
141	Molecular Dynamics in Binary Organic Glass Formers. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4032-4044	4.8 48
140	Theoretical investigation of macrodipoles in supramolecular columnar stackings. <i>Chemistry - A European Journal</i> , 2013 , 19, 1647-57	4.8 47
139	Sonochemical Activation of Al/Ni Hydrogenation Catalyst. <i>Advanced Functional Materials</i> , 2012 , 22, 3128-3135	4.6
138	Controlled modification of the inorganic and organic bricks in an Al-based MOF by direct and post-synthetic synthesis routes. <i>CrystEngComm</i> , 2012 , 14, 4126	3.3 45
137	Robust Microporous Monoliths with Integrated Catalytically Active Metal Sites Investigated by Hyperpolarized ¹²⁹ Xe NMR. <i>Chemistry of Materials</i> , 2012 , 24, 3952-3963	9.6 45
136	Pure silica BETA colloidal zeolite assembled in thin films. <i>Chemical Communications</i> , 2003 , 326-7	5.8 45
135	Triphenyl phosphite: a candidate for liquid polyamorphism. <i>Chemical Geology</i> , 2001 , 174, 143-156	4.2 45
134	Microporous Organic Polyimides for CO ₂ and H ₂ O Capture and Separation from CH ₄ and N ₂ Mixtures: Interplay between Porosity and Chemical Function. <i>Chemistry of Materials</i> , 2016 , 28, 5461-5470	8.6 44
133	[Zn(C ₃ H ₃ N ₂)(C ₃ H ₂ N ₂ =N ₂ 6H ₅)], a Mixed-Linker ZIF Containing a PhotoSwitchable Phenylazo Group. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 5378-5383	2.3 44
132	Microscopic description of the polyamorphic phases of triphenyl phosphite by means of multidimensional solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2005 , 127, 337-49	16.4 42
131	Structure and properties of Al-MIL-53-ADP, a breathing MOF based on the aliphatic linker molecule adipic acid. <i>Dalton Transactions</i> , 2016 , 45, 4179-86	4.3 41
130	SMARTER crystallography of the fluorinated inorganic-organic compound Zn ₃ Al ₂ F ₁₂ [HAmTAZ]6. <i>Dalton Transactions</i> , 2012 , 41, 6232-41	4.3 40

129	Proton-driven coordination-induced spin state switch (PD-CISSL) of iron(ii) complexes. <i>Chemical Communications</i> , 2017 , 53, 971-974	5.8	38
128	Characterization of the thermally induced topochemical solid-state transformation of NH ₄ [N(CN) ₂] into NCN[double bond]C(NH ₂) ₂ by means of X-ray and neutron diffraction as well as Raman and solid-state NMR spectroscopy. <i>Inorganic Chemistry</i> , 2004 , 43, 895-904	5.1	37
127	Wöhler and Liebig Revisited: 176 Years of Polymorphism in Benzamide - and the Story Still Continues!. <i>Crystal Growth and Design</i> , 2009 , 9, 2435-2441	3.5	36
126	Solving the Hydrogen and Lithium Substructure of Poly(triazine imide)/LiCl Using NMR Crystallography. <i>Chemistry - A European Journal</i> , 2016 , 22, 16878-16890	4.8	35
125	SrSi ₆ N ₈ -a reduced nitridosilicate with a Si-Si bond. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 567-70	16.4	35
124	Identifying Selective Host-Guest Interactions Based on Hydrogen Bond Donor-Acceptor Pattern in Functionalized Al-MIL-53 MetalOrganic Frameworks. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19991-20001	3.8	34
123	LixH _{12-x-y+z} [P ₁₂ O _y N _{24-y}]X _z (X = Cl, Br) - Oxonitridophosphate mit NPO-Zeolithstruktur. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 2205-2217	1.3	34
122	New Group 13 MIL-53 Derivates based on 2,5-Thiophenedicarboxylic Acid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1600-1608	1.3	32
121	Probing Interactions of N-Donor Molecules with Open Metal Sites within Paramagnetic Cr-MIL-101: A Solid-State NMR Spectroscopic and Density Functional Theory Study. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2135-2144	16.4	32
120	Polymorphism in co-crystals: a metastable form of the ionic co-crystal 2 HBz \bullet NaBz crystallised by flash evaporation. <i>CrystEngComm</i> , 2012 , 14, 6744	3.3	32
119	Synthesen, Kristallstrukturen und spektroskopische Eigenschaften des Melem-Adduktes C ₆ N ₇ (NH ₂) ₃ \bullet H ₃ PO ₄ sowie der Meleum-Salze (H ₂ C ₆ N ₇ (NH ₂) ₃)SO ₄ \bullet 2 H ₂ O und (HC ₆ N ₇ (NH ₂) ₃)ClO ₄ \bullet H ₂ O. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 2545-2554	1.3	32
118	The use of ultrasonic cavitation for near-surface structuring of robust and low-cost AlNi catalysts for hydrogen production. <i>Green Chemistry</i> , 2015 , 17, 2745-2749	10	31
117	Crystal Structure of a Highly Efficient Clarifying Agent for Isotactic Polypropylene. <i>Crystal Growth and Design</i> , 2012 , 12, 2543-2551	3.5	31
116	An NMR crystallographic approach for the determination of the hydrogen substructure of nitrogen bonded protons. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3522-31	3.6	30
115	Structure elucidation of cyameluric acid by combining solid-state NMR spectroscopy, molecular modeling and direct-space methods. <i>Journal of Molecular Structure</i> , 2008 , 889, 217-228	3.4	30
114	Systematic evaluation of different types of graphene oxide in respect to variations in their in-plane modulus. <i>Carbon</i> , 2017 , 114, 700-705	10.4	29
113	Reactions with oleum under harsh conditions: characterization of the unique [M(S ₂ O ₇) ₃] ₂₋ ions (M=Si, Ge, Sn) in A ₂ [M(S ₂ O ₇) ₃] (A=NH ₄ , Ag). <i>Chemistry - A European Journal</i> , 2012 , 18, 15495-503	4.8	29
112	Facile Scalable Synthesis of Rectorites. <i>Chemistry of Materials</i> , 2010 , 22, 186-196	9.6	28

111	Realisation of truly microporous pillared clays. <i>Chemical Communications</i> , 2008 , 629-31	5.8	28
110	Investigation of structural and dynamic properties of NH ₄ [N(CN) ₂] by means of X-ray and neutron powder diffraction as well as vibrational and solid-state NMR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2003 , 176, 180-191	3.3	28
109	Reorientational Dynamics of Amide Ions in Isotypic Phases of Strontium and Calcium Amide. 1. Neutron Diffraction Experiments. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 931-940	3.4	27
108	Structure and Crystallization of Alkaline-Earth Aluminosilicate Glasses: Prevention of the Alumina-Avoidance Principle. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4737-4747	3.4	26
107	Determination of rotational symmetry elements in NMR crystallography. <i>Solid State Sciences</i> , 2004 , 6, 1039-1052	3.4	26
106	Structural, Thermodynamic, and Kinetic Aspects of the Polymorphism and Pseudopolymorphism of Prednisolone (11,17 β 1-Trihydroxy-1,4-pregnadien-3,20-dion). <i>Crystal Growth and Design</i> , 2008 , 8, 98-107 ^{2.5}	2.5	25
105	Constant Volume Gate-Opening by Freezing Rotational Dynamics in Microporous Organically Pillared Layered Silicates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 904-909	16.4	23
104	New Compounds Bearing [M(S ₂ O ₇) ₃] ₂ ⁻ Anions (M = Si, Ge, Sn): Syntheses and Characterization of A ₂ [Si(S ₂ O ₇) ₃] (A = Na, K, Rb), A ₂ [Ge(S ₂ O ₇) ₃] (A = Li, Na, K, Rb, Cs), A ₂ [Sn(S ₂ O ₇) ₃] (A = Na, K), and the Unique Germanate Hg ₂ [Ge(S ₂ O ₇) ₃]Cl ₂ with Cationic 1[HgCl ₂ /2] ⁺ Chains. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 630, 2053-2061	1.3	23
103	Porosity of pillared clays studied by hyperpolarized ¹²⁹ Xe NMR spectroscopy and Xe adsorption isotherms. <i>Langmuir</i> , 2013 , 29, 643-52	4	23
102	Reconstructing the Environmental Degradation of Polystyrene by Accelerated Weathering. <i>Environmental Science & Technology</i> , 2021 , 55, 7930-7938	10.3	23
101	Mesoscale Polarization by Geometric Frustration in Columnar Supramolecular Crystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4432-4437	16.4	22
100	Synthesis and Characterization of the Tetraphosphonic Acid Ester (Et ₂ O ₃ PCH ₂) ₄ C ₆ H ₂ and the Open-Framework Cadmium Tetraphosphonate, Cd ₂ [(HO ₃ PCH ₂) ₄ C ₆ H ₂]. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 575-581	1.3	22
99	Determination of the Local Disorder in the Polyamorphic Phases of Triphenyl Phosphite. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7592-7595	3.4	22
98	A theoretical and experimental study on the Lewis acid-base adducts (P(4)E(3)).(BX(3)) (E = S, Se; X = Br, I) and (P(4)Se(3)).(NbCl(5)). <i>Inorganic Chemistry</i> , 2001 , 40, 4956-65	5.1	22
97	Water mediated proton conduction in a sulfonated microporous organic polymer. <i>Chemical Communications</i> , 2017 , 53, 7592-7595	5.8	20
96	Microporous PILCs [Synthesis, pillaring mechanism and selective cation exchange. <i>Applied Clay Science</i> , 2010 , 48, 146-153	5.2	20
95	Synthesis and characterization of V- and Ti-substituted mesoporous materials. <i>Materials Science and Engineering C</i> , 2003 , 23, 817-821	8.3	20
94	Structure Determination for the Crystalline Phase of Triphenyl Phosphite by Means of Multi-Dimensional Solid-State NMR and X-Ray Diffraction. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001 , 56, 1089-1099	1	20

93	Solvent Impact on the Properties of Benchmark Metal-Organic Frameworks: Acetonitrile-Based Synthesis of CAU-10, Ce-Uo-66, and Al-MIL-53. <i>Chemistry - A European Journal</i> , 2020 , 26, 3877-3883	4.8	19
92	Improvement of thermal and mechanical properties of a phenolic resin nanocomposite by in situ formation of silsesquioxanes from a molecular precursor. <i>Journal of Applied Polymer Science</i> , 2010 , 117, 2272-2277	2.9	18
91	A concerted approach for the determination of molecular conformation in ordered and disordered materials. <i>Chemistry - A European Journal</i> , 2007 , 13, 6339-50	4.8	18
90	Synthese von dreidimensional geordneten Einlagerungsverbindungen des Hectorits. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 80-90	1.3	18
89	Selective host-guest interactions in metal-organic frameworks via multiple hydrogen bond donor-acceptor recognition sites. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10379-10388	1.3	17
88	Orientational order and rotational dynamics of the amide ions in potassium amide. II. Quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 1998 , 109, 3559-3567	3.9	17
87	Hidden Oceans? Unraveling the Structure of Hydrous Defects in the Earth's Deep Interior. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10499-10505	16.4	16
86	Accurate Structural Description of the Two Nanoporous Fluorinated Aluminophosphates ULM-3(Al) and ULM-4(Al) by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21489-21498	3.8	16
85	Thermoanalytical Evidence of Metastable Molecular Defects in Form I of Benzamide. <i>Crystal Growth and Design</i> , 2012 , 12, 5365-5372	3.5	16
84	Ternary Stannides LiTSn ₄ (T = Ru, Rh, Ir) Chemical Bonding and Physical Properties. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1943-1948	3.4	16
83	Characterisation of the tetrahalophosphonium cations PBrnI _{4-n} ⁿ⁺ (0 ≤ n ≤ 4) by ³¹ P MAS NMR, IR and Raman spectroscopy and the crystal structures of PI ₄ +AlCl ₄ ⁻ , PI ₄ +AlBr ₄ ⁻ and PI ₄ +GaI ₄ ⁻ . <i>Dalton Transactions RSC</i> , 2001 , 1880-1889	16	
82	Understanding the Formation of CaAlSiO in Melilite-Based Glass-Ceramics: Combined Diffraction and Spectroscopic Studies. <i>ACS Omega</i> , 2017 , 2, 6233-6243	3.9	15
81	NMR-crystallographic study of two-dimensionally self-assembled cyclohexane-based low-molecular-mass organic compounds. <i>CrystEngComm</i> , 2013 , 15, 8784	3.3	15
80	Rational syntheses and structural characterization of sulfur-rich phosphorus polysulfides: P ₂ S ₇ and P ₂ S ₇ . <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10996-1000	16.4	14
79	Intermetallic lithium compounds with two- and three-dimensional polyanions. Synthesis, structure, and lithium mobility. <i>Heteroatom Chemistry</i> , 2002 , 13, 506-513	1.2	14
78	Understanding disorder and linker deficiency in porphyrinic zirconium-based metal-organic frameworks by resolving the ZrO cluster conundrum in PCN-221. <i>Nature Communications</i> , 2021 , 12, 3099 ^{17,4}	14	
77	Elucidating the formation of Al-NBO bonds, Al-O-Al linkages and clusters in alkaline-earth aluminosilicate glasses based on molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 23966-23977	3.6	14
76	Influence of Strontium Oxide on Structural Transformations in Diopside-Based Glass-Ceramics Assessed by Diverse Structural Tools. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11482-11492	3.8	13

75	Formation and Structural Diversity of Organo-Functionalized Tin-Silver Selenide Clusters. <i>Chemistry - A European Journal</i> , 2017 , 23, 15607-15611	4.8	13
74	Orientational order and rotational dynamics of the amide ions in potassium amide. I. Neutron diffraction. <i>Journal of Chemical Physics</i> , 1997 , 107, 2363-2373	3.9	13
73	Two-Step Delamination of Highly Charged, Vermiculite-like Layered Silicates via Ordered Heterostructures. <i>Langmuir</i> , 2017 , 33, 4816-4822	4	12
72	Probing self-assembled 1,3,5-benzenetrisamides in isotactic polypropylene by ^{13}C DQ solid-state NMR spectroscopy. <i>Chemical Communications</i> , 2013 , 49, 267-9	5.8	12
71	Insights into the Positive Effect of Post-Annealing on the Electrochemical Performance of Al 2O_3 -Coated Ni-Rich NCM Cathodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3369-3380	6.1	12
70	Room temperature synthesis of an amorphous MoS ₂ based composite stabilized by N-donor ligands and its light-driven photocatalytic hydrogen production. <i>RSC Advances</i> , 2015 , 5, 67742-67751	3.7	11
69	[Al $2(\text{OH})_2(\text{TCPB})$] An Al-MOF based on a tetratopic linker molecule. <i>Microporous and Mesoporous Materials</i> , 2015 , 216, 27-35	5.3	11
68	La B O (OH): The First Acentric High-Pressure Borate Displaying Edge-Sharing BO Tetrahedra. <i>Chemistry - A European Journal</i> , 2020 , 26, 6851-6861	4.8	11
67	Trimorphism of Betamethasone Valerate: Preparation, Crystal Structures, and Thermodynamic Relations. <i>Crystal Growth and Design</i> , 2015 , 15, 366-373	3.5	11
66	Two-site jumps in dimethyl sulfone studied by one- and two-dimensional O NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2018 , 288, 84-94	3	10
65	High-temperature synthesis, single-crystal X-ray structure determination and solid-state NMR investigations of Ba $7[\text{SiO}_4][\text{BO}_3]3\text{CN}$ and Sr $7[\text{SiO}_4][\text{BO}_3]3\text{CN}$. <i>Journal of Solid State Chemistry</i> , 2003 , 174, 221-228	3.3	10
64	Influence of fluorine side-group substitution on the crystal structure formation of benzene-1,3,5-trisamides. <i>CrystEngComm</i> , 2014 , 16, 9273-9283	3.3	9
63	Reorientational dynamics and solid-phase transformation of ammonium dicyanamide into dicyandiamide: a (2)H solid-state NMR study. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11680-91	3.4	9
62	Theoretical calculations of hypersurfaces of the ^{13}C chemical shift anisotropy in the CO?HN hydrogen bond and the benefit for the ab initio structure determination. <i>Computational and Theoretical Chemistry</i> , 2007 , 824, 58-70	9	
61	Structure Determination of a Low Temperature Phase of Calcium and Strontium Amide by means of Neutron Powder Diffraction on Ca(ND ₂) ₂ and Sr(ND ₂) ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1999 , 625, 2025-2032	1.3	9
60	Reorientational Dynamics of Amide Ions in Isotypic Phases of Strontium and Calcium Amide II. Solid State NMR. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4497-4507	3.4	9
59	Exploring Local Disorder within CAU-1 Frameworks Using Hyperpolarized Xe NMR Spectroscopy. <i>Langmuir</i> , 2018 , 34, 12538-12548	4	9
58	Azobenzene-Functionalized SBA-15 Material for Application in Selective Separation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 595-603	1.3	8

57	BILP-19-An Ultramicroporous Organic Network with Exceptional Carbon Dioxide Uptake. <i>Molecules</i> , 2017 , 22,	4.8	8
56	Quantitative description of H SQ and DQ coherences for the hydroxyl disorder within hydrous ringwoodite. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15098-15105	3.6	7
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