JÃ¸rgen Skibsted

List of Publications by Year
in descending order

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187	10,635	22153	38395
papers	citations	59	95
		h-index	g-index

188	188	188	6498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reactivity of supplementary cementitious materials (SCMs) in cement blends. Cement and Concrete Research, 2019, 124, 105799.	11.0	421
2	Incorporation of Aluminum in the Calcium Silicate Hydrate (Câ˜Sâ˜H) of Hydrated Portland Cements:Â A High-Field27Al and29Si MAS NMR Investigation. Inorganic Chemistry, 2003, 42, 2280-2287.	4.0	321
3	Carbonation of Câ€“Sâ€“H and Câ€“Aâ€“Sâ€“H samples studied by 13 C, 27 Al and 29 Si MAS NMR spectroscopy. Cement and Concrete Research, 2015, 71, 56-65.	11.0	292
4	Characterization of white Portland cement hydration and the C-S-H structure in the presence of sodium aluminate by 27Al and 29Si MAS NMR spectroscopy. Cement and Concrete Research, 2004, 34, 857-868.	11.0	291
5	A new aluminium-hydrate species in hydrated Portland cements characterized by 27Al and 29Si MAS NMR spectroscopy. Cement and Concrete Research, 2006, 36, 3-17.	11.0	285
6	Friedel's salt profiles from thermogravimetric analysis and thermodynamic modelling of Portland cement-based mortars exposed to sodium chloride solution. Cement and Concrete Composites, 2017, 78, 73-83.	10.7	244
7	Influence of the Ca/Si ratio on the compressive strength of cementitious calciumâ€“silicateâ€“hydrate binders. Journal of Materials Chemistry A, 2017, 5, 17401-17412.	10.3	232
8	A Series of Mixedâ€Metal Borohydrides. Angewandte Chemie - International Edition, 2009, 48, 6659-6663.	13.8	228
9	Properties of magnesium silicate hydrates (M-S-H). Cement and Concrete Research, 2016, 79, 323-332.	11.0	228
10	Experimental studies and thermodynamic modeling of the carbonation of Portland cement, metakaolin and limestone mortars. Cement and Concrete Research, 2016, 88, 60-72.	11.0	207
11	Role of calcium on chloride binding in hydrated Portland cementâ€“metakaolinâ€“limestone blends. Cement and Concrete Research, 2017, 95, 205-216.	11.0	207
12	TC 238-SCM: hydration and microstructure of concrete with SCMs. Materials and Structures/Materiaux Et Constructions, 2015, 48, 835-862.	3.1	189
13	Zeolites by confined space synthesis â€“ characterization of the acid sites in nanosized ZSM-5 by ammonia desorption and 27Al/29Si-MAS NMR spectroscopy. Microporous and Mesoporous Materials, 2000, 39, 393-401.	4.4	158
14	51V MAS NMR spectroscopy: determination of quadrupole and anisotropic shielding tensors, including the relative orientation of their principal-axis systems. Chemical Physics Letters, 1992, 188, 405-412.	2.6	155
15	Influence of silica fume on the microstructure of cement pastes: New insights from 1H NMR relaxometry. Cement and Concrete Research, 2015, 74, 116-125.	11.0	150
16	Influence of the Ca/Si ratio of the Câ€“Sâ€“H phase on the interaction with sulfate ions and its impact on the ettringite crystallization pressure. Cement and Concrete Research, 2015, 69, 37-49.	11.0	148
17	Characterisation of cement hydrate phases by TEM, NMR and Raman spectroscopy. Advances in Cement Research, 2010, 22, 233-248.	1.6	141
18	Alkaline solution/binder ratio as a determining factor in the alkaline activation of aluminosilicates. Cement and Concrete Research, 2012, 42, 1242-1251.	11.0	139

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19	29Si MAS NMR studies of portland cement components and effects of microsilica on the hydration reaction. Cement and Concrete Research, 1988, 18, 789-798.	11.0	129
20	LiCe(BH₄)₃Cl, a New Lithium-Ion Conductor and Hydrogen Storage Material with Isolated Tetranuclear Anionic Clusters. Chemistry of Materials, 2012, 24, 1654-1663.	6.7	128
21	Solid-State QCPMG NMR of Low-Î³ Quadrupolar Metal Nuclei in Natural Abundance. Journal of the American Chemical Society, 2000, 122, 7080-7086.	13.7	123
22	High Zn/Al ratios enhance dehydrogenation vs hydrogen transfer reactions of Zn-ZSM-5 catalytic systems in methanol conversion to aromatics. Journal of Catalysis, 2018, 362, 146-163.	6.2	120
23	Aluminum Incorporation in the Câ€“Sâ€“H Phase of White Portland Cementâ€“Metakaolin Blends Studied by ²⁷<scp><scp>Al</scp></scp> and ²⁹<scp><scp>Si</scp> MAS NMR</scp> Spectroscopy. Journal of the American Ceramic Society, 2014, 97, 2662-2671.	3.8	119
24	The Effect of Alkali Ions on the Incorporation of Aluminum in the Calcium Silicate Hydrate (<scp><scp>C</scp></scp>â€“<scp><scp>S</scp></scp>â€“<scp><scp>H</scp></scp>) Phase Resulting from Portland Cement Hydration Studied by ²⁹<scp><scp>Si</scp> MAS NMR</scp>. Journal of the American Ceramic Society, 2013, 96, 651-656.	3.8	118
25	Effect of carbonated cement paste on composite cement hydration and performance. Cement and Concrete Research, 2020, 134, 106090.	11.0	111
26	Improved Hydrogen Storage Kinetics of Nanoconfined NaAlH₄ Catalyzed with TiCl₃ Nanoparticles. ACS Nano, 2011, 5, 4056-4064.	14.6	110
27	Phase assemblage and microstructure of cement paste subjected to enforced, wet carbonation. Cement and Concrete Research, 2020, 130, 105990.	11.0	109
28	Characterization of cement minerals, cements and their reaction products at the atomic and nano scale. Cement and Concrete Research, 2008, 38, 205-225.	11.0	108
29	Early stage dissolution characteristics of aluminosilicate glasses with blast furnace slagâ€•and flyâ€•ashâ€•like compositions. Journal of the American Ceramic Society, 2017, 100, 1941-1955.	3.8	105
30	Thermodynamic modeling of hydrated white Portland cementâ€“metakaolinâ€“limestone blends utilizing hydration kinetics from 29Si MAS NMR spectroscopy. Cement and Concrete Research, 2016, 86, 29-41.	11.0	101
31	Improved evidence for the existence of an intermediate phase during hydration of tricalcium silicate. Cement and Concrete Research, 2010, 40, 875-884.	11.0	100
32	Composition, silicate anion structure and morphology of calcium silicate hydrates (C-S-H) synthesised by silica-lime reaction and by controlled hydration of tricalcium silicate (C₃S). Advances in Applied Ceramics, 2015, 114, 362-371.	1.1	99
33	Thermal Polymorphism and Decomposition of Y(BH₄)₃. Inorganic Chemistry, 2010, 49, 3801-3809.	4.0	96
34	Structure and Characterization of KSc(BH₄)₄. Journal of Physical Chemistry C, 2010, 114, 19540-19549.	3.1	95
35	Kinetics of enforced carbonation of cement paste. Cement and Concrete Research, 2020, 131, 106013.	11.0	93
36	Structure and reactivity of synthetic CaO-Al2O3-SiO2 glasses. Cement and Concrete Research, 2019, 120, 77-91.	11.0	90

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37	Clay reactivity: Production of alkali activated cements. Applied Clay Science, 2013, 73, 11-16.	5.2	87
38	Sulfate resistance of calcined clay â€“ Limestone â€“ Portland cements. Cement and Concrete Research, 2019, 116, 238-251.	11.0	85
39	Satellite transitions in MAS NMR spectra of quadrupolar nuclei. Journal of Magnetic Resonance, 1991, 95, 88-117.	0.5	83
40	Thermal Activation of a Pure Montmorillonite Clay and Its Reactivity in Cementitious Systems. Journal of Physical Chemistry C, 2014, 118, 11464-11477.	3.1	83
41	Distribution of Aluminum over the Tetrahedral Sites in ZSM-5 Zeolites and Their Evolution after Steam Treatment. Journal of Physical Chemistry C, 2018, 122, 15595-15613.	3.1	82
42	Direct observation of aluminium guest ions in the silicate phases of cement minerals by 27 Al MAS NMR spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2095.	1.7	81
43	29Si Chemical Shift Anisotropies in Calcium Silicates from High-Field29Si MAS NMR Spectroscopy. Inorganic Chemistry, 2003, 42, 2368-2377.	4.0	81
44	Pozzolanic reactivity of a calcined interstratified illite/smectite (70/30) clay. Cement and Concrete Research, 2016, 79, 101-111.	11.0	77
45	51V Chemical Shielding and Quadrupole Coupling in Ortho- and Metavanadates from51V MAS NMR Spectroscopy. Inorganic Chemistry, 1998, 37, 3083-3092.	4.0	76
46	A quantitative study of the C3A hydration. Cement and Concrete Research, 2019, 115, 145-159.	11.0	74
47	11B Chemical Shift Anisotropies in Borates from 11B MAS, MQMAS, and Single-Crystal NMR Spectroscopy. Journal of Physical Chemistry A, 2004, 108, 586-594.	2.5	73
48	Improved quantification of alite and belite in anhydrous Portland cements by 29Si MAS NMR: Effects of paramagnetic ions. Solid State Nuclear Magnetic Resonance, 2009, 36, 32-44.	2.3	73
49	A solid-state 14N magic-angle spinning NMR study of some amino acids. Journal of Magnetic Resonance, 2004, 166, 262-272.	2.1	70
50	Synthesis and characterization of basic bismuth(III) nitrates. Dalton Transactions RSC, 2000, , 265-270.	2.3	69
51	Evidence of Intermediate-Range Order Heterogeneity in Calcium Aluminosilicate Glasses. Chemistry of Materials, 2010, 22, 4471-4483.	6.7	69
52	CO2 mineralisation of Portland cement: Towards understanding the mechanisms of enforced carbonation. Journal of CO2 Utilization, 2020, 38, 398-415.	6.8	69
53	Quantification of calcium silicate phases in Portland cements by 29Si MAS NMR spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 4423.	1.7	68
54	14N MAS NMR Spectroscopy:Â The Nitrate Ion. Journal of the American Chemical Society, 2001, 123, 5098-5099.	13.7	68

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55	Refinement of Borate Structures from 11B MAS NMR Spectroscopy and Density Functional Theory Calculations of 11B Electric Field Gradients. Journal of Physical Chemistry A, 2005, 109, 1989-1997.	2.5	68
56	Microstructure engineering of Portland cement pastes and mortars through addition of ultrafine layer silicates. Cement and Concrete Composites, 2008, 30, 686-699.	10.7	68
57	A sink for methane on Mars? The answer is blowing in the wind. Icarus, 2014, 236, 24-27.	2.5	67
58	51V MAS NMR Investigation of51V Quadrupole Coupling and Chemical Shift Anisotropy in Divalent Metal Pyrovanadates. Journal of Physical Chemistry B, 2001, 105, 420-429.	2.6	66
59	133Cs Chemical Shielding Anisotropies and Quadrupole Couplings from Magic-Angle Spinning NMR of Cesium Saltsâ€. The Journal of Physical Chemistry, 1996, 100, 14872-14881.	2.9	62
60	13C chemical shift anisotropies for carbonate ions in cement minerals and the use of 13C, 27Al and 29Si MAS NMR in studies of Portland cement including limestone additions. Cement and Concrete Research, 2013, 52, 100-111.	11.0	59
61	Quadrupole Coupling and Anisotropic Shielding from Single-Crystal NMR of the Central Transition for Quadrupolar Nuclei.87Rb NMR of RbClO4and Rb2SO4. Journal of Magnetic Resonance Series A, 1996, 122, 111-119.	1.6	58
62	Efficient Solar-Driven Hydrogen Transfer by Bismuth-Based Photocatalyst with Engineered Basic Sites. Journal of the American Chemical Society, 2018, 140, 16711-16719.	13.7	58
63	Characterization of Divalent Metal Metavanadates by51V Magic-Angle Spinning NMR Spectroscopy of the Central and Satellite Transitions. Inorganic Chemistry, 2000, 39, 2135-2145.	4.0	57
64	Effect of alkali hydroxide on calcium silicate hydrate (C-S-H). Cement and Concrete Research, 2022, 151, 106636.	11.0	57
65	Magic-angle spinning NMR spectra of satellite transitions for quadrupolar nuclei in solids. Journal of Magnetic Resonance, 1989, 85, 173-180.	0.5	55
66	Ammine Magnesium Borohydride Nanocomposites for All-Solid-State Magnesium Batteries. ACS Applied Energy Materials, 2020, 3, 9264-9270.	5.1	53
67	Hydrogenâ€“fluorine exchange in NaBH4â€“NaBF4. Physical Chemistry Chemical Physics, 2013, 15, 18185.	2.8	52
68	The Complete 51V MAS NMR Spectrum of Surface Vanadia Nanoparticles on Anatase (TiO2):â€‰ Vanadia Surface Structure of a DeNOx Catalyst. Journal of the American Chemical Society, 2004, 126, 4926-4933.	13.7	51
69	Dissolution kinetics of calcined kaolinite and montmorillonite in alkaline conditions: Evidence for reactive Al(V) sites. Journal of the American Ceramic Society, 2019, 102, 7720-7734.	3.8	51
70	Mixedâ€Anion and Mixedâ€Cation Borohydride KZn(BH₄)Cl₂: Synthesis, Structure and Thermal Decomposition. European Journal of Inorganic Chemistry, 2010, 2010, 1608-1612.	2.0	48
71	Correlation between 29Si NMR chemical shifts and mean Siî—¸O bond lengths for calcium silicates. Chemical Physics Letters, 1990, 172, 279-283.	2.6	47
72	35Cl and37Cl Magic-Angle Spinning NMR Spectroscopy in the Characterization of Inorganic Perchlorates. Inorganic Chemistry, 1999, 38, 1806-1813.	4.0	47

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73	Nanoconfined NaAlH₄: prolific effects from increased surface area and pore volume. Nanoscale, 2014, 6, 599-607.	5.6	47
74	Hydrogen Storage Capacity Loss in a LiBH₄â€“Al Composite. Journal of Physical Chemistry C, 2013, 117, 7423-7432.	3.1	45
75	2LiBH₄â€“MgH₂ in a Resorcinolâ€“Furfural Carbon Aerogel Scaffold for Reversible Hydrogen Storage. Journal of Physical Chemistry C, 2012, 116, 1526-1534.	3.1	44
76	Aluminum Orthovanadate (AlVO4):Â Synthesis and Characterization by27Al and51V MAS and MQMAS NMR Spectroscopy. Inorganic Chemistry, 2002, 41, 6432-6439.	4.0	42
77	Synthesis, Crystal Structure, Thermal Decomposition, and ¹¹B MAS NMR Characterization of Mg(BH₄)₂(NH₃BH₃)₂. Journal of Physical Chemistry C, 2014, 118, 12141-12153.	3.1	41
78	Trends in Syntheses, Structures, and Properties for Three Series of Ammine Rare-Earth Metal Borohydrides, M(BH₄)₃Â·nNH₃ (M = Y, Gd, and Dy). Inorganic Chemistry, 2015, 54, 7402-7414.	4.0	41
79	Structure refinement of CsNO3(II) by coupling of 14N MAS NMR experiments with WIEN2k DFT calculations. Chemical Physics Letters, 2005, 402, 133-137.	2.6	40
80	Structural studies of lithium zinc borohydride by neutron powder diffraction, Raman and NMR spectroscopy. Journal of Alloys and Compounds, 2011, 509, S698-S704.	5.5	40
81	Sensitivity enhancement in natural-abundance solid-state 33S MAS NMR spectroscopy employing adiabatic inversion pulses to the satellite transitions. Journal of Magnetic Resonance, 2008, 190, 316-326.	2.1	39
82	Hydration of Portland cement in the presence of clay minerals studied by ²⁹Si and ²⁷Al MAS NMR spectroscopy. Advances in Cement Research, 2003, 15, 103-112.	1.6	38
83	14N MAS NMR Spectroscopy and Quadrupole Coupling Data in Characterization of the IV â†” III Phase Transition in Ammonium Nitrate. Journal of Physical Chemistry B, 2002, 106, 3026-3032.	2.6	37
84	Solid state synthesis, structural characterization and ionic conductivity of bimetallic alkali-metal yttrium borohydrides MY(BH₄)₄ (M = Li and Na). Journal of Materials Chemistry A, 2016, 4, 8793-8802.	10.3	37
85	2LiBH4â€“MgH2â€“0.13TiCl4 confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage. Journal of Alloys and Compounds, 2014, 599, 78-86.	5.5	36
86	A hydrophilic heterogeneous cobalt catalyst for fluoride-free Hiyama, Suzuki, Heck and Hirao cross-coupling reactions in water. Green Chemistry, 2020, 22, 1353-1365.	9.0	36
87	Variable-Temperature 87Rb Magic-Angle Spinning NMR Spectroscopy of Inorganic Rubidium Salts. Journal of Physical Chemistry A, 1999, 103, 7958-7971.	2.5	35
88	Formation and Structure of Conjugated Salen-Cross-Linked Polymers and Their Application in Asymmetric Heterogeneous Catalysis. European Journal of Organic Chemistry, 2005, 2005, 342-347.	2.4	34
89	Evaluation of27Al and51V Electric Field Gradients and the Crystal Structure for Aluminum Orthovanadate (AlVO4) by Density Functional Theory Calculations. Journal of Physical Chemistry B, 2006, 110, 5975-5983.	2.6	34
90	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881.	3.3	34

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91	Quantitative Aspects of 27Al MAS NMR of Calcium Aluminoferrites. Advanced Cement Based Materials, 1998, 7, 57-59.	0.3	33
92	Resolution of the Two Aluminum Sites in Ettringite by ²⁷Al MAS and MQMAS NMR at Very High Magnetic Field (22.3 T). Journal of Physical Chemistry C, 2017, 121, 4011-4017.	3.1	32
93	Synthesis, Structure, and Li-Ion Conductivity of LiLa(BH₄)₃X, X = Cl, Br, I. Journal of Physical Chemistry C, 2017, 121, 19010-19021.	3.1	32
94	Immobilized piperazine on the surface of graphene oxide as a heterogeneous bifunctional acidâ€“base catalyst for the multicomponent synthesis of 2-amino-3-cyano-4H-chromenes. Green Chemistry, 2020, 22, 4604-4616.	9.0	32
95	Fe(III) uptake by calcium silicate hydrates. Applied Geochemistry, 2020, 113, 104460.	3.0	31
96	Characterization of Na5P3O10 Polymorphs by 23Na MAS, 23Na MQMAS, and 31P MAS NMR Spectroscopy. Inorganic Chemistry, 1999, 38, 84-92.	4.0	30
97	Site Preferences of Fluoride Guest Ions in the Calcium Silicate Phases of Portland Cement from 29Si{19F} CP-REDOR NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 14170-14171.	13.7	30
98	Role of internal coke for deactivation of ZSM-5 catalysts after low temperature removal of coke with NO2. Catalysis Science and Technology, 2012, 2, 1196.	4.1	30
99	Nanoscale Ordering and Depolymerization of Calcium Silicate Hydrates in the Presence of Alkalis. Journal of Physical Chemistry C, 2019, 123, 24873-24883.	3.1	30
100	Impact of Mg substitution on the structure and pozzolanic reactivity of calcium aluminosilicate (CaO-Al2O3-SiO2) glasses. Cement and Concrete Research, 2020, 138, 106231.	11.0	30
101	Quantification of thaumasite in cementitious materials by ²⁹Si {₁H} cross-polarization magic-angle spinning NMR spectroscopy. Advances in Cement Research, 1995, 7, 69-83.	1.6	29
102	Characterization of the Î±â^'Î² Phase Transition in Friedels Salt (Ca2Al(OH)6ClÂ·2H2O) by Variable-Temperature 27Al MAS NMR Spectroscopy. Journal of Physical Chemistry A, 2002, 106, 6676-6682.	2.5	29
103	Design of a Nanometric AlTi Additive for MgB₂-Based Reactive Hydride Composites with Superior Kinetic Properties. Journal of Physical Chemistry C, 2018, 122, 7642-7655.	3.1	29
104	A thermodynamic model for predicting the stability of thaumasite. Cement and Concrete Composites, 2003, 25, 867-872.	10.7	28
105	Single-Crystal Growth and Characterization of Disilver(I) Monofluorophosphate(V), Ag2PO3F:â€‰ Crystal Structure, Thermal Behavior, Vibrational Spectroscopy, and Solid-State 19F, 31P, and 109Ag MAS NMR Spectroscopy. Inorganic Chemistry, 2007, 46, 801-808.	4.0	28
106	Semi-dry carbonation of recycled concrete paste. Journal of CO2 Utilization, 2022, 63, 102111.	6.8	28
107	Unusual observation of nitrogen chemical shift anisotropies in tetraalkylammonium halides by 14N MAS NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2003, 24, 218-235.	2.3	27
108	Phase Diagram for the NaBH₄â€“KBH₄ System and the Stability of a Na_{1â€“x}K_xBH₄ Solid Solution. Journal of Physical Chemistry C, 2015, 119, 27919-27929.	3.1	27

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109	Effect of alkalis on products of enforced carbonation of cement paste. Construction and Building Materials, 2021, 291, 123203.	7.2	27
110	Incorporation of Sodium and Aluminum in Cementitious Calcium-Alumino-Silicate-Hydrate C-(A)-S-H Phases Studied by ²³Na, ²⁷Al, and ²⁹Si MAS NMR Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 27975-27995.	3.1	27
111	Structural Environments for Boron and Aluminum in Aluminaâ^'Boria Catalysts and Their Precursors from¹¹B and²⁷Al Single- and Double-Resonance MAS NMR Experiments. Journal of Physical Chemistry C, 2008, 112, 7210-7222.	3.1	26
112	Characterization of Mo(CO)6by95Mo Single-Crystal NMR Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 9144-9149.	2.5	25
113	Pulsed field gradient multiple-quantum MAS NMR spectroscopy of half-integer spin quadrupolar nuclei. Chemical Physics Letters, 1997, 281, 44-48.	2.6	24
114	Influence of cement constitution and temperature on chloride binding in cement paste. Advances in Cement Research, 2000, 12, 57-64.	1.6	24
115	Crystal structure of ÃŽÂ±-Mg2V2O7 from synchrotron X-ray powder diffraction and characterization by 51V MAS NMR spectroscopy. Dalton Transactions RSC, 2001, , 3214-3218.	2.3	24
116	Probing Crystal Structures and Transformation Reactions of Ammonium Molybdates by14N MAS NMR Spectroscopy. Inorganic Chemistry, 2006, 45, 10873-10881.	4.0	24
117	Line shapes and widths of MAS sidebands for 27Al satellite transitions. Multinuclear MAS NMR of tugtupite Na8Al2Be2Si8O24Cl2. Solid State Nuclear Magnetic Resonance, 1995, 5, 239-255.	2.3	23
118	Hydration of Blended <scp>P</scp>ortland Cements Containing Calciumâ€Aluminosilicate Glass Powder and Limestone. Journal of the American Ceramic Society, 2012, 95, 403-409.	3.8	23
119	Hydrogen reversibility of LiBH₄â€“MgH₂â€“Al composites. Physical Chemistry Chemical Physics, 2014, 16, 8970-8980.	2.8	23
120	Ionic liquids grafted onto graphene oxide as a new multifunctional heterogeneous catalyst and its application in the one-pot multi-component synthesis of hexahydroquinolines. New Journal of Chemistry, 2017, 41, 6219-6225.	2.8	22
121	Incorporation of Phosphorus Guest Ions in the Calcium Silicate Phases of Portland Cement from ³¹P MAS NMR Spectroscopy. Inorganic Chemistry, 2010, 49, 5522-5529.	4.0	20
122	Methylamine Lithium Borohydride as Electrolyte for Allâ€Solidâ€State Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
123	Determination of nitrogen chemical shift anisotropy from the second-order cross-term in 14N MAS NMR spectroscopy. Chemical Physics Letters, 2003, 377, 426-432.	2.6	19
124	New opportunities in acquisition and analysis of natural abundance complex solid-state 33S MAS NMR spectra: (CH3NH3)2WS4. Physical Chemistry Chemical Physics, 2009, 11, 6981.	2.8	19
125	(NH₄)₄Sn₂S₆Â·3H₂O: Crystal Structure, Thermal Decomposition, and Precursor for Textured Thin Film. Chemistry of Materials, 2014, 26, 4494-4504.	6.7	19
126	Identification of Distinct Framework Aluminum Sites in Zeolite ZSM-23: A Combined Computational and Experimental ²⁷Al NMR Study. Journal of Physical Chemistry C, 2019, 123, 7831-7844.	3.1	19

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127	Ammine Lanthanum and Cerium Borohydrides, M(BH₄)₃Â·nNH₃; Trends in Synthesis, Structures, and Thermal Properties. Inorganic Chemistry, 2020, 59, 7768-7778.	4.0	19
128	Investigations of the thermal decomposition of MBH4â€“2NH3BH3, M=Na, K. Journal of Alloys and Compounds, 2013, 580, S287-S291.	5.5	18
129	Hydrogenation properties of lithium and sodium hydride â€“ closo-borate, [B₁₀H₁₀]^{2â}‹</sup> and [B₁₂H₁₂]^{2â}‹</sup>, composites. Physical Chemistry Chemical Physics, 2018, 20, 16266-16275.	2.8	18
130	Fast Room-Temperature Mg²⁺ Conductivity in Mg(BH₄)₂Â·1.6NH₃â€“Al₂O₃ Nanocomposites. Journal of Physical Chemistry Letters, 2022, 13, 2211-2216.	4.6	18
131	23Na Magic-angle spinning nuclear magnetic resonance of central and satellite transitions in the characterization of the anhydrous, dihydrate, and mixed phases of sodium molybdate and tungstate. Solid State Nuclear Magnetic Resonance, 1994, 3, 29-38.	2.3	17
132	Î²-VO2â€”a V(IV) or a mixed-valence V(III)â€“V(V) oxideâ€”studied by 51V MAS NMR spectroscopy. Chemical Physics Letters, 2002, 356, 73-78.	2.6	17
133	Effect of the Partial Replacement of CaH₂ with CaF₂ in the Mixed System CaH₂ + MgB₂. Journal of Physical Chemistry C, 2014, 118, 28409-28417.	3.1	17
134	Quantification of the boron speciation in alkali borosilicate glasses by electron energy loss spectroscopy. Scientific Reports, 2015, 5, 17526.	3.3	17
135	Immobilized Lanthanum(III) Triflate on Graphene Oxide as a New Multifunctional Heterogeneous Catalyst for the One-Pot Five-Component Synthesis of Bis(pyrazolyl)methanes. ACS Sustainable Chemistry and Engineering, 2017, 5, 4598-4606.	6.7	17
136	High-speed spinning versus high magnetic field in MAS NMR of quadrupolar nuclei. 27Al MAS NMR of 3CaOÂ·Al2O3. Journal of Magnetic Resonance, 1991, 92, 669-676.	0.5	16
137	Structural Investigation of Yeâ€™elimite, Ca₄Al₆O₁₂SO₄, by ²⁷Al MAS and MQMAS NMR at Different Magnetic Fields. Journal of Physical Chemistry C, 2018, 122, 12077-12089.	3.1	16
138	Optical Sensing of pH and O₂ in the Evaluation of Bioactive Self-Healing Cement. ACS Omega, 2019, 4, 20237-20243.	3.5	16
139	Effect of sulfate on CO2 binding efficiency of recycled alkaline materials. Cement and Concrete Research, 2022, 157, 106804.	11.0	16
140	59Co Chemical Shift Anisotropy and Quadrupole Coupling for K3Co(CN)6 from MQMAS and MAS NMR Spectroscopy. Solid State Nuclear Magnetic Resonance, 2001, 20, 23-34.	2.3	15
141	Metal borohydride formation from aluminium boride and metal hydrides. Physical Chemistry Chemical Physics, 2016, 18, 27545-27553.	2.8	15
142	Effect of alkalis on enforced carbonation of cement paste: Mechanism of reaction. Journal of the American Ceramic Society, 2021, 104, 1076-1087.	3.8	15
143	29Si cross-polarization magic-angle spinning NMR spectroscopyâ€“â€“an efficient tool for quantification of thaumasite in cement-based materials. Cement and Concrete Composites, 2003, 25, 823-829.	10.7	14
144	The Charge-Balancing Role of Calcium and Alkali Ions in Per-Alkaline Aluminosilicate Glasses. Journal of Physical Chemistry B, 2018, 122, 3184-3195.	2.6	14

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145	Creep in reactive colloidal gels: A nanomechanical study of cement hydrates. Physical Review Research, 2021, 3, .	3.6	14
146	Solid-State NMR Characterization of the Mineral Searlesite and Its Detection in Complex Synthesis Mixtures. Inorganic Chemistry, 2001, 40, 5906-5912.	4.0	13
147	Synthesis and thermal decomposition of potassium tetraamidoboranealuminate, K[Al(NH2BH3)4]. International Journal of Hydrogen Energy, 2018, 43, 311-321.	7.1	13
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