Shigenobu Hayashi

List of Publications by Year
in descending order

161 papers	8,956 citations	61984 43 h-index	43889 91 g-index
166 all docs	166 docs citations	166 times ranked	7375 citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrolysis of Cellulose by Amorphous Carbon Bearing SO₃H, COOH, and OH Groups. Journal of the American Chemical Society, 2008, 130, 12787-12793.	13.7	941
2	Biodiesel made with sugar catalyst. Nature, 2005, 438, 178-178.	27.8	735
3	A Carbon Material as a Strong Protonic Acid. Angewandte Chemie - International Edition, 2004, 43, 2955-2958.	13.8	519
4	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. Chemistry of Materials, 2006, 18, 3039-3045.	6.7	509
5	Nb₂O₅Â·nH₂O as a Heterogeneous Catalyst with Water-Tolerant Lewis Acid Sites. Journal of the American Chemical Society, 2011, 133, 4224-4227.	13.7	480
6	Adsorption-Enhanced Hydrolysis of Î²-1,4-Glucan on Graphene-Based Amorphous Carbon Bearing SO₃H, COOH, and OH Groups. Langmuir, 2009, 25, 5068-5075.	3.5	274
7	Esterification of higher fatty acids by a novel strong solid acid. Catalysis Today, 2006, 116, 157-161.	4.4	266
8	Exfoliated Nanosheets as a New Strong Solid Acid Catalyst. Journal of the American Chemical Society, 2003, 125, 5479-5485.	13.7	247
9	Chemical Shift Standards in High-Resolution Solid-State NMR (1)13C,29Si, and1H Nuclei. Bulletin of the Chemical Society of Japan, 1991, 64, 685-687.	3.2	214
10	Nanosheets as highly active solid acid catalysts for green chemical syntheses. Energy and Environmental Science, 2010, 3, 82-93.	30.8	167
11	Protonated Titanate Nanotubes as Solid Acid Catalyst. Journal of the American Chemical Society, 2010, 132, 6622-6623.	13.7	159
12	Protonated Titanate Nanotubes with Lewis and BrÃ¸nsted Acidity: Relationship between Nanotube Structure and Catalytic Activity. Chemistry of Materials, 2013, 25, 385-393.	6.7	153
13	Amorphous Carbon Bearing Sulfonic Acid Groups in Mesoporous Silica as a Selective Catalyst. Chemistry of Materials, 2009, 21, 186-193.	6.7	136
14	Synthesis and acid catalysis of cellulose-derived carbon-based solid acid. Solid State Sciences, 2010, 12, 1029-1034.	3.2	133
15	Preparation of a Sulfonated Porous Carbon Catalyst with High Specific Surface Area. Catalysis Letters, 2009, 131, 242-249.	2.6	127
16	Highly Active Mesoporous Nbâ€"W Oxide Solidâ€Acid Catalyst. Angewandte Chemie - International Edition, 2010, 49, 1128-1132.	13.8	124
17	Exfoliated HNb3O8Nanosheets as a Strong Protonic Solid Acid. Chemistry of Materials, 2005, 17, 2487-2489.	6.7	117
18	Structure and Catalysis of Celluloseâ€Derived Amorphous Carbon Bearing SO₃H Groups. ChemSusChem, 2011, 4, 778-784.	6.8	111

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19	Modification of the Interlayer Surface of Kaolinite with Methoxy Groups. Langmuir, 2000, 16, 5506-5508.	3.5	104
20	Efficient Utilization of Nanospace of Layered Transition Metal Oxide HNbMoO₆as a Strong, Water-Tolerant Solid Acid Catalyst. Journal of the American Chemical Society, 2008, 130, 7230-7231.	13.7	103
21	Titanium Niobate and Titanium Tantalate Nanosheets as Strong Solid Acid Catalysts. Journal of Physical Chemistry B, 2004, 108, 11549-11555.	2.6	99
22	High-resolution solid-state 13C NMR spectra of tetramethylammonium ions trapped in zeolites. Chemical Physics Letters, 1985, 113, 368-371.	2.6	86
23	Intercalation of Nitroanilines into Kaolinite and Second Harmonic Generation. Chemistry of Materials, 2001, 13, 3741-3746.	6.7	82
24	Structure and Acid Catalysis of Mesoporous Nb₂O₅Â·<i>n</i>H₂O. Chemistry of Materials, 2010, 22, 3332-3339.	6.7	82
25	Formation of 5-(Hydroxymethyl)furfural by Stepwise Dehydration over TiO₂ with Water-Tolerant Lewis Acid Sites. Journal of Physical Chemistry C, 2015, 119, 17117-17125.	3.1	82
26	Shift References in High-Resolution Solid-State NMR. Bulletin of the Chemical Society of Japan, 1989, 62, 2429-2430.	3.2	81
27	Accurate Determination of NMR Chemical Shifts in Alkali Halides and Their Correlation with Structural Factors. Bulletin of the Chemical Society of Japan, 1990, 63, 913-919.	3.2	79
28	SO3H-bearing mesoporous carbon with highly selective catalysis. Microporous and Mesoporous Materials, 2011, 143, 443-450.	4.4	79
29	NMR study of kaolinite. 1. Silicon-29, aluminum-27, and proton spectra. The Journal of Physical Chemistry, 1992, 96, 10922-10928.	2.9	73
30	Multifunctional Octamethyltetrasila[2.2]cyclophanes: Conformational Variations, Circularly Polarized Luminescence, and Organic Electroluminescence. Journal of the American Chemical Society, 2017, 139, 11214-11221.	13.7	73
31	Solid Lewis acidity of boehmite Î3-AlO(OH) and its catalytic activity for transformation of sugars in water. RSC Advances, 2014, 4, 43785-43791.	3.6	69
32	Characterization of HNbWO₆ and HTaWO₆ Metal Oxide Nanosheet Aggregates As Solid Acid Catalysts. Journal of Physical Chemistry C, 2009, 113, 7831-7837.	3.1	67
33	Anhydrous Proton-Conducting Properties of Nafionâ€“1,2,4-Triazole and Nafionâ€“Benzimidazole Membranes for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2007, 154, A290.	2.9	65
34	Anchoring titanium dioxide on carbon spheres for high-performance visible light photocatalysis. Applied Catalysis B: Environmental, 2017, 207, 255-266.	20.2	64
35	Interlamellar Esterification of H-Magadiite with Aliphatic Alcohols. Chemistry of Materials, 2001, 13, 3747-3753.	6.7	60
36	sp³â€Linked Amorphous Carbon with Sulfonic Acid Groups as a Heterogeneous Acid Catalyst. ChemSusChem, 2012, 5, 1841-1846.	6.8	60

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37	Synthesis of an Alkylammonium/Magnesium Phyllosilicate Hybrid Nanocomposite Consisting of a Smectite-Like Layer and Organosiloxane Layers. Chemistry of Materials, 2003, 15, 1189-1197.	6.7	55
38	Utilization of hexagonal boron nitride as a solid acidâ€“base bifunctional catalyst. Journal of Catalysis, 2017, 355, 176-184.	6.2	54
39	Soft-Chemical Synthesis and Electrochemical Property of H2Ti12O25 as a Negative Electrode Material for Rechargeable Lithium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A546.	2.9	49
40	NMR Study of Dynamics of Dimethyl Sulfoxide Molecules in Kaolinite/Dimethyl Sulfoxide Intercalation Compound. The Journal of Physical Chemistry, 1995, 99, 7120-7129.	2.9	47
41	Development of highly active SO3H-modified hybrid mesoporous catalyst. Catalysis Today, 2006, 116, 151-156.	4.4	47
42	Proton diffusion in the superprotonic phase of CsHSO4 studied by 1H NMR relaxation. Solid State Ionics, 2004, 171, 289-293.	2.7	44
43	Environmentally Benign Production of Chemicals and Energy Using a Carbonâ€Based Strong Solid Acid. Journal of the American Ceramic Society, 2007, 90, 3725-3734.	3.8	44
44	Layered and nanosheet tantalum molybdate as strong solid acid catalysts. Journal of Catalysis, 2010, 270, 206-212.	6.2	44
45	Preparation of a Novel Luminous Heterogeneous System: Rhodamine/Coumarin/Phyllosilicate Hybrid and Blue Shift in Fluorescence Emission. Chemistry of Materials, 2008, 20, 2994-3002.	6.7	43
46	Effects of ball-milling treatment on physicochemical properties and solid base activity of hexagonal boron nitrides. Catalysis Science and Technology, 2019, 9, 302-309.	4.1	42
47	Fluorescence Spectra for the Microcrystals and Thin Films oftrans,trans,trans-1,6-Diphenyl-1,3,5-hexatrienes. Journal of Physical Chemistry B, 2003, 107, 3376-3383.	2.6	40
48	Fast proton conductor under anhydrous condition synthesized from 12-phosphotungstic acid and ionic liquid. Electrochimica Acta, 2007, 53, 963-967.	5.2	39
49	Dynamics of benzene, cyclohexane and n-hexane in KL zeolite studied by 2H NMR. Physical Chemistry Chemical Physics, 1999, 1, 3839-3843.	2.8	36
50	Synthesis of Highly Ordered Hybrid Mesoporous Material Containing Etenylene (â€"CH=CHâ€") within the Silicate Framework. Chemistry Letters, 2003, 32, 950-951.	1.3	36
51	Intercalationâ€Controlled Cyclodehydration of Sorbitol in Water over Layeredâ€Niobiumâ€Molybdate Solid Acid. ChemSusChem, 2014, 7, 748-752.	6.8	35
52	Evaluation of strong acid properties of layered HNbMoO6 and catalytic activity for Friedelâ€“Crafts alkylation. Catalysis Today, 2009, 142, 267-271.	4.4	34
53	Reorientational Motion of BH₄ Ions in Alkali Borohydrides MBH₄ (M = Li, Na,) Tj ETQq1 1 0.784314 rgBT /Ove	3.1	33
54	Nuclear Magnetic Resonance Chemical Shifts of Pure Organic Solvents Determined by Magic Angle Spinning. Analytical Sciences, 1991, 7, 955-957.	1.6	32

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55	Proton dynamics in phase II of CsHSO4 as probed by 1H spinâ€“lattice relaxation. Solid State Communications, 2004, 132, 443-448.	1.9	32
56	Acid properties of H-type mordenite studied by solid-state NMR. Microporous and Mesoporous Materials, 2011, 141, 49-55.	4.4	30
57	Luminescent Behavior Elucidation of a Disilaneâ€Bridged Dâ€“Aâ€“D Triad Composed of Phenothiazine and Thienopyrazine. Angewandte Chemie - International Edition, 2021, 60, 22871-22878.	13.8	30
58	Effects of Transition-Metal Composition of Protonated, Layered Nonstoichiometric Oxides H1â^'xNb1â^'xMo1+xO6 on Heterogeneous Acid Catalysis. Journal of Physical Chemistry C, 2009, 113, 17421-17427.	3.1	28
59	Triblock copolymer-assisted synthesis of a hybrid mesoporous ethyleneâ€“silica with 2D hexagonal structure and large pores. Journal of Materials Chemistry, 2005, 15, 2362.	6.7	25
60	Synthesis and acid catalysis of zeolite-templated microporous carbons with SO3H groups. Physical Chemistry Chemical Physics, 2013, 15, 9343.	2.8	25
61	A novel soft-chemical synthetic route using Na2Ti6O13 as a starting compound and electrochemical properties of H2Ti12O25. Journal of Power Sources, 2013, 244, 679-683.	7.8	25
62	Synthesis of niobium-doped titanate nanotubes as solid acid catalysts. Catalysis Science and Technology, 2016, 6, 4832-4839.	4.1	25
63	Effects of magic-angle spinning on spin-lattice relaxations in talc. Solid State Nuclear Magnetic Resonance, 1994, 3, 323-330.	2.3	24
64	NMR study of pore surface and size in the mesoporous material FSM-16. Microporous and Mesoporous Materials, 2000, 39, 25-35.	4.4	23
65	NMR study of the behavior of hydrogen in vanadium hydride. I. Superstructure and diffusion of hydrogen in Î²â€VH0.59. Journal of Chemical Physics, 1982, 76, 4392-4397.	3.0	22
66	NMR study of kaolinite. 2. Proton, aluminum-27, and silicon-29 spin-lattice relaxations. The Journal of Physical Chemistry, 1992, 96, 10928-10933.	2.9	22
67	Interatomic distances in layered silicates and their intercalation compounds as studied by cross polarization NMR. Chemical Physics Letters, 1994, 226, 495-500.	2.6	22
68	Nuclear spin-lattice relaxation mechanisms in kaolinite confirmed by magic-angle spinning. Solid State Nuclear Magnetic Resonance, 1995, 4, 331-340.	2.3	22
69	51V and59Co Off-MAS NMR Spectra: Determination of Quadrupole Coupling, Chemical Shift Anisotropy and Their Relative Orientation. Magnetic Resonance in Chemistry, 1996, 34, 791-798.	1.9	22
70	Proton dynamics in Cs2(HSO4)(H2PO4) studied by 1H NMR. Solid State Ionics, 2005, 176, 745-754.	2.7	22
71	Effect of substitutional Mo on diffusion and site occupation of hydrogen in the BCT monohydride phase of Vâ€“H system studied by 1H NMR. Journal of Alloys and Compounds, 2010, 507, 399-404.	5.5	22
72	Mechanochemical Decomposition of Crystalline Cellulose in the Presence of Protonated Layered Niobium Molybdate Solid Acid Catalyst. ChemSusChem, 2018, 11, 888-896.	6.8	22

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73	High-resolution solid-state 13C nuclear magnetic resonance study of the dynamic behaviour of tetramethylammonium ions trapped in zeolites. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 2973.	1.0	21
74	X-ray diffraction and 1H and 51V NMR study of the Tiî—¸Vî—¸H system. Journal of the Less Common Metals, 1990, 161, 61-75.	0.8	21
75	H1NMR study of proton dynamics in the inorganic solid acidRb3H(SO4)2. Physical Review B, 2006, 73, .	3.2	21
76	1H NMR study of proton dynamics in (NH4)3H(SO4)2. Solid State Ionics, 2006, 177, 3223-3231.	2.7	20
77	Enhancement of hydrogen diffusion in the body-centered tetragonal monohydride phase of the Vâ€“H system by substitutional Al studied by proton nuclear magnetic resonance. Acta Materialia, 2015, 83, 479-487.	7.9	20
78	Hydrogen motion and local structure of metals in Î²-Ti1âˆ’yVyHxas studied byH1NMR. Physical Review B, 1993, 48, 5837-5843.	3.2	19
79	Sites and dynamics of hydrogen and deuterium in V-H-D alloys studied by1Hand2HNMR. Physical Review B, 1999, 60, 10302-10315.	3.2	19
80	Destabilizing the Dehydrogenation Thermodynamics of Magnesium Hydride by Utilizing the Immiscibility of Mn with Mg. Inorganic Chemistry, 2019, 58, 14600-14607.	4.0	19
81	Structure of Ti1âˆ’yVyHx alloys studied by X-ray diffraction and by 1H and 51V NMR. Journal of Solid State Chemistry, 1983, 46, 306-312.	2.9	18
82	Spinning-rate-dependent line shape in 31P magic-angle spinning NMR spectra of inorganic phosphates. Chemical Physics Letters, 1989, 161, 158-162.	2.6	17
83	Effect of substitutional Cr on hydrogen diffusion and thermal stability for the BCT monohydride phase of the Vâ€“H system studied by 1H NMR. Journal of Alloys and Compounds, 2012, 524, 63-68.	5.5	17
84	Strategy of thermodynamic and kinetic improvements for Mg hydride nanostructured by immiscible transition metals. Journal of Power Sources, 2021, 494, 229742.	7.8	17
85	Local environments and dynamics of hydrogen atoms in protonated forms of ion-exchangeable layered perovskites estimated by solid-state 1H NMR. Journal of Solid State Chemistry, 2006, 179, 3357-3364.	2.9	16
86	Local structure in Î²-Ti1âˆ’yVyHxstudied by inelastic neutron scattering. Physical Review B, 1995, 51, 5725-5731.	3.2	15
87	New organicâ€“inorganic crystalline electrolytes synthesized from 12-phosphotungstic acid and the ionic liquid [BMIM][TFSI]. Electrochimica Acta, 2008, 53, 7638-7643.	5.2	15
88	Synthesis and structural study of Ti-rich Mgâ€“Ti hydrides. Journal of Alloys and Compounds, 2014, 593, 132-136.	5.5	15
89	Multinuclear Solid-State NMR Study of Dehydration of Naâ€“Y Type Zeolites. Bulletin of the Chemical Society of Japan, 1987, 60, 105-109.	3.2	14
90	Sites and dynamics of hydrogen in Ti0.1V0.9HxDy (x+yâ‰ˆ0.7) as studied by 1H nuclear magnetic resonance. Journal of Alloys and Compounds, 2000, 305, 136-143.	5.5	14

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91	1H NMR study of the phase separation and the behavior of hydrogen in Ti1âˆ’yVyHx. Journal of Chemical Physics, 1983, 78, 5096-5102.	3.0	13
92	1H NMR study of local structure and proton dynamics in Î²-Ti1âˆ’yVyHx. Journal of Alloys and Compounds, 1995, 231, 226-232.	5.5	13
93	13C and1H MAS NMR Study of Benzene andp-Xylene in Zeolites and a Mesoporous Material FSM-16. Bulletin of the Chemical Society of Japan, 1997, 70, 97-105.	3.2	13
94	Accurate determination of 1H Knight shifts in Mg2NiHx and MgHx by means of high-speed magic angle spinning. Journal of Alloys and Compounds, 1997, 248, 66-69.	5.5	13
95	Intermolecular [2+2] Photocycloaddition of Formyl- and Cyano-Substituted Diphenylhexatrienes in the Solid State. Chemistry Letters, 2001, 30, 410-411.	1.3	13
96	Diffusion of hydrogen isotopes and their mutual perturbation in Ti0.33V0.67HxDy (x+yâ‰ˆ0.9) studied by 1H and 2H NMR. Journal of Solid State Chemistry, 2003, 170, 82-93.	2.9	13
97	Dynamics of p-nitroaniline molecules in FSM-type mesoporous silicas studied by solid-state NMR. Microporous and Mesoporous Materials, 2004, 68, 111-118.	4.4	13
98	Adsorption of Trimethylphosphine Oxide Molecules from the Gas Phase to Probe Surface Acidity by Solid-state NMR. Chemistry Letters, 2009, 38, 960-961.	1.3	13
99	Transesterification of Triolein over Hydrophobic Microporous Carbon with SO₃H Groups. ChemCatChem, 2015, 7, 3945-3950.	3.7	13
100	Selective Formation and SHG Intensity of Noncentrosymmetric and Centrosymmetric 1,1,2,2-Tetramethyl-1-(4-(<i>N,N</i>-dimethylamino)phenyl)-2-(2â€²-cyanophenyl)disilane Crystals under External Stimuli. Journal of Physical Chemistry C, 2020, 124, 17450-17458.	3.1	13
101	Determination of residual dipolar interaction from transverse 1H NMR relaxation in elastomers. Solid State Nuclear Magnetic Resonance, 2009, 36, 167-171.	2.3	12
102	Intermolecular CHâ‹¯O hydrogen bonds in formyl-substituted diphenylhexatriene, a [2+2] photoreactive organic solid: Crystal structure and IR, NMR spectroscopic evidence. Journal of Molecular Structure, 2011, 1006, 366-374.	3.6	12
103	Distribution and Dynamics of Hydrogen in the Low-Temperature Phase of Mg2NiH4 Studied by Solid-State NMR. Inorganic Chemistry, 2002, 41, 2238-2242.	4.0	11
104	Dynamics of p-nitroaniline molecules in siliceous ZSM-5 studied by solid-state NMR. Physical Chemistry Chemical Physics, 2003, 5, 3777.	2.8	11
105	Probing the Micropores in Linde-type A Zeolites by Helium-3 NMR. Chemistry Letters, 2006, 35, 92-93.	1.3	11
106	Phase transition in a superprotonic conductor Cs2(HSO4)(H2PO4) induced by water vapor. Solid State Ionics, 2006, 177, 1275-1279.	2.7	11
107	Sealing Effect of Magic-Angle-Spinning Rotors in Solid-State NMR. Analytical Sciences, 2009, 25, 133-136.	1.6	11
108	Adsorption of Trimethylphosphine Oxide on Silicalite Studied by Solid-State NMR. Bulletin of the Chemical Society of Japan, 2014, 87, 69-75.	3.2	11

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109	Structural Variation of Self-Organized Mg Hydride Nanoclusters in Immiscible Ti Matrix by Hydrogenation. Inorganic Chemistry, 2018, 57, 11831-11838.	4.0	11
110	Hydrogen distribution in the low-temperature phase of Mg2NiH4. Journal of the Less Common Metals, 1989, 155, 31-35.	0.8	10
111	2H NMR study of sites and dynamics of deuterium and their isotope effects in Ti0.1V0.9HxDy (x+yâ‰ˆ0.7). Journal of Alloys and Compounds, 2002, 330-332, 443-447.	5.5	10
112	Diffusion of hydrogen isotopes in the monohydride phase of Ti1âˆ’zVzHxDy studied by 1H and 2H NMR spinâ€“lattice relaxation times. Journal of Physics and Chemistry of Solids, 2003, 64, 2227-2234.	4.0	10
113	H1NMR study of proton dynamics inCs5H3(SO4)4âˆ™xH2O. Physical Review B, 2006, 74, .	3.2	10
114	Characterization of micropores in zeolites by 3He NMR. Microporous and Mesoporous Materials, 2007, 101, 3-9.	4.4	10
115	Nanometer Scale Proton Conductivity and Dynamics of CsHSO₄ and H₃PW₁₂O₄₀ Composites under Non-Humidified Conditions. Chemistry of Materials, 2010, 22, 3418-3425.	6.7	10
116	Formation of hydride phase and diffusion of hydrogen in the Vâ€“H system varied by substitutional Fe. International Journal of Hydrogen Energy, 2016, 41, 6369-6375.	7.1	10
117	Enhancement of solid base activity for porous boron nitride catalysts by controlling active structure using post treatment. Applied Catalysis A: General, 2020, 608, 117843.	4.3	10
118	Deuteron dynamics and its isotope effect in Î²-Ti1âˆ’yVyDx as studied by 2H NMR. Journal of Alloys and Compounds, 1997, 256, 145-150.	5.5	9
119	Acid Properties of Protonated Titanate Nanotubes. Journal of the Japan Petroleum Institute, 2017, 60, 113-120.	0.6	9
120	A Series of Dâ€“Aâ€“D Structured Disilane-Bridged Triads: Structure and Stimuli-Responsive Luminescence Studies. Journal of Organic Chemistry, 2022, 87, 8928-8938.	3.2	9
121	Local structures and hydrogen dynamics in amorphous and nanostructured Mgî—¸Niî—¸H systems as studied by 1H and 2H nuclear magnetic resonance. Journal of Alloys and Compounds, 1997, 261, 145-149.	5.5	8
122	Proton dynamics in Cs3(HSO4)2(HPO4) studied by 1H NMR. Solid State Ionics, 2006, 177, 2873-2880.	2.7	8
123	Acid property of MFI-type zeolites probed by trimethylphosphine oxide studied by solid-state NMR. Microporous and Mesoporous Materials, 2014, 186, 101-105.	4.4	8
124	Structural changes of layered alkylsiloxanes during the reversible meltingâ€“solidification process. Physical Chemistry Chemical Physics, 2016, 18, 19146-19157.	2.8	8
125	Luminescent Behavior Elucidation of a Disilaneâ€Bridged Dâ€“Aâ€“D Triad Composed of Phenothiazine and Thienopyrazine. Angewandte Chemie, 2021, 133, 23053.	2.0	8
126	NMR study of the behavior of hydrogen in vanadium hydride (2). Superstructures and diffusion of hydrogen at high hydrogen concentration in Î²â€VHx. Journal of Chemical Physics, 1982, 77, 2210-2211.	3.0	7

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127	Gene Expression in the Brain from Fluoxetine-Injected Mouse Using DNA Microarray. Annals of the New York Academy of Sciences, 2006, 1074, 42-51.	3.8	7
128	Using X-ray diffraction to study thermal phase transitions in Cs5H3(SO4)4Â·xH2O. Solid State Ionics, 2007, 178, 1262-1267.	2.7	7
129	Mixed-cation effect in a superprotonic phase of [(NH4)1â^'xRbx]3H(SO4)2 studied by 1H solid-state NMR. Solid State Ionics, 2008, 179, 599-604.	2.7	7
130	Proton diffusion in the superprotonic phase of [(NH4)1â^'xRbx]3H(SO4)2 as studied by 1H spin-lattice relaxation. Solid State Ionics, 2009, 180, 667-672.	2.7	7
131	Solid-State NMR Study of Titanium Dioxide Nanoparticles Surface-Modified by Alkylphosphonic Acids. Bulletin of the Chemical Society of Japan, 2011, 84, 1267-1275.	3.2	7
132	Formation of â€œfuzzyâ€•phases with high proton conductivities in the composites of polyphosphoric acid and metal oxide nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 11135.	2.8	7
133	Effect of dissolved oxygen on hydrogenation of vanadium and hydrogen diffusion in the monohydride phase. Acta Materialia, 2016, 103, 23-29.	7.9	7
134	Dynamics of acetonitrile and n-hexane in AlPO4-5 studied by 2H NMR. Microporous and Mesoporous Materials, 2003, 66, 253-260.	4.4	6
135	Proton dynamics in CsHSO4 confined in mesoporous silica FSM-16 as studied by 1H solid-state NMR. Microporous and Mesoporous Materials, 2009, 126, 72-80.	4.4	6
136	Undesorbed Dichloromethane in Zeolites Studied by Solid-State NMR. Bulletin of the Chemical Society of Japan, 2011, 84, 1090-1095.	3.2	6
137	Suppression of the Phase Coexistence of the fccâ€"fct Transition in Hafnium-Hydride Thin Films. Journal of Physical Chemistry Letters, 2021, 12, 10969-10974.	4.6	6
138	Thermal desorption spectra of hydrogen isotopes in the monohydride phase of Vâ€"Hâ€"D and Tiâ€"Vâ€"Hâ€"D systems. Journal of Alloys and Compounds, 2003, 359, 281-286.	5.5	5
139	Effects of Na+on Dynamics ofp-Nitroaniline Molecules in Zeolite ZSM-5 Studied by Solid-State NMR. Bulletin of the Chemical Society of Japan, 2004, 77, 673-679.	3.2	5
140	1H NMR study of proton dynamics in [(NH4)1â^'xRbx]3H(SO4)2 (x=0.54). Solid State Ionics, 2008, 179, 842-846.	2.7	5
141	Proton diffusion in hybrid materials of CsHSO4 and silica nanoparticles as studied by 1H solid-state NMR. Solid State Sciences, 2012, 14, 171-176.	3.2	5
142	Reversibly meltable layered alkylsiloxanes with melting points controllable by alkyl chain lengths. New Journal of Chemistry, 2013, 37, 1142.	2.8	5
143	Detailed mechanisms of 1H spin-lattice relaxation in ammonium dihydrogen phosphate confirmed by magic angle spinning. Solid State Nuclear Magnetic Resonance, 2017, 87, 24-28.	2.3	5
144	Effect of Water Vapor on the Accelerated Deterioration Treatment of Cu-SSZ-13 as Catalysts for Selective Catalytic Reduction. Industrial & Engineering Chemistry Research, 2021, 60, 15454-15463.	3.7	5

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145	Two-Dimensional1H Spin-Exchange NMR Study of Molecular Arrangements in Diphenylhexatrienes. Bulletin of the Chemical Society of Japan, 2004, 77, 2159-2164.	3.2	4
146	Dynamics ofp-Nitroaniline Molecules in Micoporous Aluminophosphate AlPO4-5 Studied by Solid-State NMR. Journal of Physical Chemistry B, 2006, 110, 90-96.	2.6	4
147	Proton dynamics in the room-temperature phase of Cs3(HSO4)2(H2PO4) studied by 1H MAS NMR. Solid State Ionics, 2007, 178, 1493-1498.	2.7	4
148	Ammonium ion diffusion in the superprotonic phase of (NH4)3H(SO4)2 as studied by 1H spin-lattice relaxation times in the rotating frame. Solid State Ionics, 2008, 178, 1792-1797.	2.7	4
149	Proton diffusion in the room-temperature phase of [(NH4)1â˘xRbx]3H(SO4)2 as studied by 1H spin-lattice relaxation in the rotating frame. Solid State Nuclear Magnetic Resonance, 2010, 37, 69-74.	2.3	4
150	Intensity Calibration at Low Mass Numbers in Mass Spectrometry Using Metal Hydrides.. Analytical Sciences, 2002, 18, 599-601.	1.6	3
151	Deuterium diffusion in vanadium deuterides (VDx; 0.4â©½xâ©½0.6) studied by 2H NMR. Journal of Solid State Chemistry, 2004, 177, 824-833.	2.9	3
152	Solid-state NMR study on dynamics of p-nitroaniline molecules in FSM-type mesoporous silicas at high loading levels. Microporous and Mesoporous Materials, 2006, 91, 92-99.	4.4	3
153	Effects of structural differences in starting materials on the formation behavior of cubic silicon nitride by shock compression. Journal of the Ceramic Society of Japan, 2013, 121, 741-744.	1.1	3
154	Hydrogen Bond Networks in Cs2(HSO4)(H2PO4) As Studied by Solid-State NMR. Journal of Physical Chemistry C, 2017, 121, 12643-12651.	3.1	3
155	Spin diffusion and 1 H spin-lattice relaxation in Cs 2 (HSO 4)(H 2 PO 4) containing a small amount of ammonium ions. Solid State Nuclear Magnetic Resonance, 2017, 88, 15-21.	2.3	2
156	Incorporation of ammonium ions in Cs2(HSO4)(H2PO4) confirmed by solid-state NMR. Solid State Ionics, 2017, 311, 83-89.	2.7	2
157	Mixing nitrogen-containing compounds for synthesis of porous boron nitride for improved porosity, surface functionality, and solid base catalytic activity. Applied Catalysis A: General, 2022, 638, 118635.	4.3	1
158	Nuclear Magnetic Resonance Study of Proton Diffusion in Inorganic Solids. Shinku/Journal of the Vacuum Society of Japan, 2006, 49, 12-16.	0.2	0
159	Surface Modification of Boron Nitride Nanoparticles by Decylphosphonic Acid Characterized by Solid-state NMR. Chemistry Letters, 2011, 40, 1121-1123.	1.3	0
160	Diffusion of ammonium ions in [(NH4)1â˘xRbx]3H(SO4)2 studied by 1H spinâ€"lattice relaxation in the rotating frame. Journal of Physics and Chemistry of Solids, 2012, 73, 614-616.	4.0	0
161	Stability of Zirconium-Substituted Face-Centered Cubic Yttrium Hydride. Inorganic Chemistry, 2021, 60, 17715-17721.	4.0	0