

# Kikuko Hayamizu

## List of Publications by Year in descending order

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182  
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13,485  
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36203

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113  
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183  
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183  
docs citations

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times ranked

9159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physicochemical Properties and Structures of Room Temperature Ionic Liquids. 2. Variation of Alkyl Chain Length in Imidazolium Cation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6103-6110.	1.2	1,552
2	Physicochemical Properties and Structures of Room Temperature Ionic Liquids. 1. Variation of Anionic Species. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16593-16600.	1.2	1,234
3	How Ionic Are Room-Temperature Ionic Liquids? An Indicator of the Physicochemical Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19593-19600.	1.2	1,106
4	Pulsed-Gradient Spin-Echo $^1\text{H}$ and $^{19}\text{F}$ NMR Ionic Diffusion Coefficient, Viscosity, and Ionic Conductivity of Non-Chloroaluminate Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4603-4610.	1.2	963
5	Brønsted Acid-Base Ionic Liquids as Proton-Conducting Nonaqueous Electrolytes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4024-4033.	1.2	652
6	Physicochemical Properties and Structures of Room-Temperature Ionic Liquids. 3. Variation of Cationic Structures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2833-2839.	1.2	593
7	Magnitude and Directionality of Interaction in Ion Pairs of Ionic Liquids: Relationship with Ionic Conductivity. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16474-16481.	1.2	468
8	Pulse-Gradient Spin-Echo $^1\text{H}$ , $^7\text{Li}$ , and $^{19}\text{F}$ NMR Diffusion and Ionic Conductivity Measurements of 14 Organic Electrolytes Containing $\text{LiN}(\text{SO}_2\text{CF}_3)_2$ . <i>Journal of Physical Chemistry B</i> , 1999, 103, 519-524.	1.2	332
9	Ionic Conduction and Ion Diffusion in Binary Room-Temperature Ionic Liquids Composed of $[\text{emim}][\text{BF}_4]$ and $\text{LiBF}_4$ . <i>Journal of Physical Chemistry B</i> , 2004, 108, 19527-19532.	1.2	295
10	Chemical Shift Standards in High-Resolution Solid-State NMR ( $^{13}\text{C}$ , $^{29}\text{Si}$ , and $^1\text{H}$ Nuclei). <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 685-687.	2.0	214
11	Mechanisms of Ion and Water Transport in Perfluorosulfonated Ionomer Membranes for Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16064-16070.	1.2	204
12	Imidazolium-Based Room-Temperature Ionic Liquid for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A173.	1.3	195
13	Comprehensive Refractive Index Property for Room-Temperature Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2211-2216.	1.0	191
14	Temperature Dependence of Ion and Water Transport in Perfluorinated Ionomer Membranes for Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3112-3119.	1.2	167
15	Proton-Conducting Properties of a Brønsted Acid-Base Ionic Liquid and Ionic Melts Consisting of Bis(trifluoromethanesulfonyl)imide and Benzimidazole for Fuel Cell Electrolytes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1541-1548.	1.5	154
16	Temperature Dependence of Self-Diffusion Coefficients of Ions and Solvents in Ethylene Carbonate, Propylene Carbonate, and Diethyl Carbonate Single Solutions and Ethylene Carbonate + Diethyl Carbonate Binary Solutions of $\text{LiPF}_6$ Studied by NMR. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2012-2017.	1.0	146
17	Origin of the Low-Viscosity of $[\text{emim}][(\text{FSO}_2)_2\text{N}]$ Ionic Liquid and Its Lithium Salt Mixture: Experimental and Theoretical Study of Self-Diffusion Coefficients, Conductivities, and Intermolecular Interactions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16329-16336.	1.2	144
18	$^1\text{H}$ , $^7\text{Li}$ , and $^{19}\text{F}$ nuclear magnetic resonance and ionic conductivity studies for liquid electrolytes composed of glymes and polyethenoglycol dimethyl ethers of $\text{CH}_3\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{CH}_3$ ( $n=3\text{--}50$ ) doped with $\text{LiN}(\text{SO}_2\text{CF}_3)_2$ . <i>Journal of Chemical Physics</i> , 2002, 117, 5929-5939.	1.2	134

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19	Degradation of Perfluorinated Ionomer Membranes for PEM Fuel Cells during Processing with H <sub>2</sub> O <sub>2</sub> . Journal of the Electrochemical Society, 2006, 153, A967.	1.3	134
20	Unusual Li <sup>+</sup> Ion Solvation Structure in Bis(fluorosulfonyl)amide Based Ionic Liquid. Journal of Physical Chemistry C, 2013, 117, 19314-19324.	1.5	133
21	Studies on the translational and rotational motions of ionic liquids composed of N-methyl-N-propyl-pyrrolidinium (P13) cation and bis(trifluoromethanesulfonyl)amide and bis(fluorosulfonyl)amide anions and their binary systems including lithium salts. Journal of Chemical Physics, 2010, 133, 194505.	1.2	129
22	Effects of cation and anion on physical properties of room-temperature ionic liquids. Journal of Molecular Liquids, 2010, 152, 9-13.	2.3	118
23	Raman Spectroscopic Studies and Ab Initio Calculations on Conformational Isomerism of 1-Butyl-3-methylimidazolium Bis-(trifluoromethanesulfonyl)amide Solvated to a Lithium Ion in Ionic Liquids: Effects of the Second Solvation Sphere of the Lithium Ion. Journal of Physical Chemistry B, 2010, 114, 6513-6521.	1.2	107
24	Chemical Shift Standards in High-Resolution Solid-State NMR (2)15N Nuclei. Bulletin of the Chemical Society of Japan, 1991, 64, 688-690.	2.0	104
25	Liquid Structure of and Li <sup>+</sup> Ion Solvation in Bis(trifluoromethanesulfonyl)amide Based Ionic Liquids Composed of 1-Ethyl-3-methylimidazolium and N-Methyl-N-propylpyrrolidinium Cations. Journal of Physical Chemistry B, 2011, 115, 12179-12191.	1.2	102
26	A Model for Diffusive Transport through a Spherical Interface Probed by Pulsed-Field Gradient NMR. Biophysical Journal, 1998, 74, 2259-2271.	0.2	97
27	Quaternary Ammonium Room-Temperature Ionic Liquid/Lithium Salt Binary Electrolytes: Electrochemical Study. Journal of the Electrochemical Society, 2008, 155, A421.	1.3	96
28	Ion Transport Properties of Six Lithium Salts Dissolved in <sup>3</sup> Butyrolactone Studied by Self-Diffusion and Ionic Conductivity Measurements. Journal of the Electrochemical Society, 2004, 151, A119.	1.3	94
29	Ionic conduction and self-diffusion near infinitesimal concentration in lithium salt-organic solvent electrolytes. Journal of Chemical Physics, 2000, 113, 1981-1991.	1.2	92
30	Nuclear magnetic resonance studies on the rotational and translational motions of ionic liquids composed of 1-ethyl-3-methylimidazolium cation and bis(trifluoromethanesulfonyl)amide and bis(fluorosulfonyl)amide anions and their binary systems including lithium salts. Journal of Chemical Physics, 2011, 135, 084505.	1.2	92
31	Ionic conductivity, DSC and self diffusion coefficients of lithium, anion, polymer, and solvent of polymer gel electrolytes: the structure of the gels and the diffusion mechanism of the ions. Electrochimica Acta, 2000, 45, 1321-1326.	2.6	91
32	High-resolution solid-state <sup>13</sup> C NMR spectra of tetramethylammonium ions trapped in zeolites. Chemical Physics Letters, 1985, 113, 368-371.	1.2	86
33	Correlating the NMR self-diffusion and relaxation measurements with ionic conductivity in polymer electrolytes composed of cross-linked poly(ethylene oxide-propylene oxide) doped with LiN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . Journal of Chemical Physics, 2000, 113, 4785-4793.	1.2	85
34	Quaternary Ammonium Room-Temperature Ionic Liquid Including an Oxygen Atom in Side Chain/Lithium Salt Binary Electrolytes: Ionic Conductivity and <sup>1</sup> H, <sup>7</sup> Li, and <sup>19</sup> F NMR Studies on Diffusion Coefficients and Local Motions. Journal of Physical Chemistry B, 2008, 112, 1189-1197.	1.2	84
35	Shift References in High-Resolution Solid-State NMR. Bulletin of the Chemical Society of Japan, 1989, 62, 2429-2430.	2.0	81
36	Relationships between center atom species (N, P) and ionic conductivity, viscosity, density, self-diffusion coefficient of quaternary cation room-temperature ionic liquids. Physical Chemistry Chemical Physics, 2009, 11, 3509.	1.3	80

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37	Accurate Determination of NMR Chemical Shifts in Alkali Halides and Their Correlation with Structural Factors. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 913-919.	2.0	79
38	Diffusion, conductivity and DSC studies of a polymer gel electrolyte composed of cross-linked PEO, $\gamma$ -butyrolactone and LiBF <sub>4</sub> . <i>Solid State Ionics</i> , 1998, 107, 1-12.	1.3	79
39	The analysis of the proton magnetic resonance spectra of monosubstituted benzenes. <i>Journal of Molecular Spectroscopy</i> , 1968, 25, 422-435.	0.4	69
40	Molecular Motions and Ion Diffusions of the Room-Temperature Ionic Liquid 1,2-Dimethyl-3-propylimidazolium Bis(trifluoromethylsulfonyl)amide (DMPImTFSA) Studied by <sup>1</sup> H, <sup>13</sup> C, and <sup>19</sup> F NMR. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12027-12036.	1.1	67
41	Ion and solvent diffusion and ion conduction of PC-DEC and PC-DME binary solvent electrolytes of LiN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . <i>Electrochimica Acta</i> , 2004, 49, 3397-3402.	2.6	64
42	Ion Conduction Mechanisms and Thermal Properties of Hydrated and Anhydrous Phosphoric Acids Studied with <sup>1</sup> H, <sup>2</sup> H, and <sup>31</sup> P NMR. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24999-25006.	1.2	64
43	Quaternary Ammonium Room-Temperature Ionic Liquid Including an Oxygen Atom in Side Chain/Lithium Salt Binary Electrolytes: Ab Initio Molecular Orbital Calculations of Interactions between Ions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9914-9920.	1.2	62
44	Self-diffusion coefficients of lithium, anion, polymer, and solvent in polymer gel electrolytes measured using <sup>7</sup> Li, <sup>19</sup> F, and <sup>1</sup> H pulsed-gradient spin-echo NMR. <i>Electrochimica Acta</i> , 2000, 45, 1313-1319.	2.6	61
45	Multinuclear NMR Studies on Translational and Rotational Motion for Two Ionic Liquids Composed of BF <sub>4</sub> <sup>-</sup> Anion. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11284-11291.	1.2	61
46	Lithium ion diffusion in solid electrolyte (Li <sub>2</sub> S) <sub>7</sub> (P <sub>2</sub> S <sub>5</sub> ) <sub>3</sub> measured by pulsed-gradient spin-echo <sup>7</sup> Li NMR spectroscopy. <i>Solid State Ionics</i> , 2013, 238, 7-14.	1.3	61
47	High-Resolution Solid-State <sup>31</sup> P NMR of Alkali Phosphates. <i>Bulletin of the Chemical Society of Japan</i> , 1989, 62, 3061-3068.	2.0	59
48	Solid-State Polymerization of 15,17,19,21,23,25-Tetracontahexayne. <i>Macromolecules</i> , 1994, 27, 6259-6266.	2.2	54
49	Structures of the Polymers Obtained by the Solid-State Polymerization of Diyne, Triyne, and Tetrayne with Long-Alkyl Substituents. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 857-863.	2.0	53
50	The analysis of the proton magnetic resonance spectra of monosubstituted benzenes. <i>Journal of Molecular Spectroscopy</i> , 1968, 28, 89-100.	0.4	52
51	An NMR and Ionic Conductivity Study of Ion Dynamics in Liquid Poly(ethylene oxide)-Based Electrolytes Doped with LiN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2002, 106, 547-554.	1.2	52
52	Alcohol and Proton Transport in Perfluorinated Ionomer Membranes for Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24410-24417.	1.2	51
53	NMR Studies on Poly(ethylene oxide)-based Polymer Electrolytes with Different Cross-Linking Doped with LiN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . Restricted Diffusion of the Polymer and Lithium Ion and Time-Dependent Diffusion of the Anion. <i>Macromolecules</i> , 2003, 36, 2785-2792.	2.2	48
54	An Integrated Spectral Data Base System Including IR, MS, <sup>1</sup> H-NMR, <sup>13</sup> C-NMR, ESR and Raman Spectra. <i>Analytical Sciences</i> , 1988, 4, 233-239.	0.8	47

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55	Physicochemical and Electrochemical Properties of 1-Ethyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate and 1-Ethyl-3-Methylimidazolium Tetracyanoborate. <i>Journal of the Electrochemical Society</i> , 2012, 159, A967-A971.	1.3	45
56	Design of Polymer Electrolytes Based on a Lithium Salt of a Weakly Coordinating Anion to Realize High Ionic Conductivity with Fast Charge-Transfer Reaction. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11995-12002.	1.2	43
57	Lithium ion diffusion measurements on a garnet-type solid conductor $\text{Li}_6\text{.6La}_3\text{Zr}_{1.6}\text{Ta}_{0.4}\text{O}_{12}$ by using a pulsed-gradient spin-echo NMR method. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 70, 21-27.	1.5	42
58	NMR studies on lithium ion migration in sulfide-based conductors, amorphous and crystalline $\text{Li}_3\text{PS}_4$ . <i>Solid State Ionics</i> , 2016, 285, 51-58.	1.3	40
59	Electrolyte properties of 1-alkyl-2,3,5-trimethylpyrazolium cation-based room-temperature ionic liquids for lithium secondary batteries. <i>Journal of Power Sources</i> , 2010, 195, 6207-6211.	4.0	37
60	Long-range Li ion diffusion in NASICON-type $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ (LAGP) studied by $^7\text{Li}$ pulsed-gradient spin-echo NMR. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23483-23491.	1.3	37
61	Bridge-terminal exchange of aluminum trialkyl dimers. <i>Journal of Organometallic Chemistry</i> , 1974, 73, 17-25.	0.8	36
62	Phase relation, structure and ionic conductivity of $\text{Li}_{7-x}\text{Al}_y\text{La}_3\text{Zr}_{2x}\text{Ta}_x\text{O}_{12}$ . <i>RSC Advances</i> , 2016, 6, 78210-78218.	1.7	36
63	Lithium ion micrometer diffusion in a garnet-type cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO) studied using $^7\text{Li}$ NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 146, 024701.	1.2	34
64	High Resolution $^{29}\text{Si}$ Nuclear Magnetic Resonance Study on Gallosilicates with Zeolitic Structures. <i>Bulletin of the Chemical Society of Japan</i> , 1985, 58, 52-57.	2.0	33
65	The analysis of the proton magnetic resonance spectra of monosubstituted benzenes. <i>Journal of Molecular Spectroscopy</i> , 1969, 29, 183-193.	0.4	32
66	Dynamic ionic radius of alkali metal ions in aqueous solution: a pulsed-field gradient NMR study. <i>RSC Advances</i> , 2021, 11, 20252-20257.	1.7	32
67	NMR and ion conductivity studies on cross-linked poly(ethyleneoxide- <i>co</i> -propyleneoxide) and branched polyether doped with $\text{LiN}(\text{SO}_2\text{CF}_3)_2$ . <i>Electrochimica Acta</i> , 2001, 46, 1475-1485.	2.6	31
68	Transport and Electrochemical Properties of Three Quaternary Ammonium Ionic Liquids and Lithium Salts Doping Effects Studied by NMR Spectroscopy. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 1944-1954.	1.0	31
69	Direct relations between ion diffusion constants and ionic conductivity for lithium electrolyte solutions. <i>Electrochimica Acta</i> , 2017, 254, 101-111.	2.6	31
70	Direct in Situ Observation of Dynamic Transport for Electrolyte Components by NMR Combined with Electrochemical Measurements. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22302-22305.	1.2	29
71	Strategies for fast ion transport in electrochemical capacitor electrolytes from diffusion coefficients, ionic conductivity, viscosity, density and interaction energies based on HSAB theory. <i>RSC Advances</i> , 2017, 7, 14528-14535.	1.7	29
72	Graphic representation of nuclear magnetic resonance proton chemical shifts for the acyclic methine group. <i>Analytical Chemistry</i> , 1968, 40, 568-570.	3.2	28

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73	High-resolution solid-state $^{31}\text{P}$ NMR study of network structure in $\text{AgI}-\text{Ag}_2\text{O}-\text{P}_2\text{O}_5$ glass. <i>Journal of Solid State Chemistry</i> , 1989, 80, 195-200.	1.4	28
74	Nuclear magnetic resonance studies of 5,6-dicarboxy-2-norbornene derivatives. <i>Magnetic Resonance in Chemistry</i> , 1969, 1, 405-414.	0.7	27
75	$^{51}\text{V}$ NMR Chemical Shift and Anisotropy in Solid Metavanadates. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 961-963.	2.0	27
76	Dependence of the diffusion coefficients of methane in silicalite on diffusion distance as investigated by $^1\text{H}$ PFG NMR. <i>Chemical Physics Letters</i> , 2004, 393, 87-91.	1.2	26
77	Anomalous lithium ion migration in the solid electrolyte $(\text{Li}_2\text{S})_7(\text{P}_2\text{S}_5)_3$ ; fast ion transfer at short time intervals studied by PGSE NMR spectroscopy. <i>Solid State Ionics</i> , 2014, 259, 59-64.	1.3	26
78	A Divalent Lithium Salt $\text{Li}_2\text{B}_{12}\text{F}_{12}$ Dissolved in Propylene Carbonate Studied by NMR Methods. <i>Journal of the Electrochemical Society</i> , 2009, 156, A744.	1.3	25
79	Density, Viscosity, Ionic Conductivity, and Self-Diffusion Coefficient of Organic Liquid Electrolytes: Part I. Propylene Carbonate + Li, Na, Mg and Ca Cation Salts. <i>Journal of the Electrochemical Society</i> , 2018, 165, A542-A546.	1.3	25
80	Gas Diffusion in Polycrystalline Silicalite Membranes Investigated by $^1\text{H}$ Pulse Field-Gradient NMR. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13871-13876.	1.2	24
81	Nuclear magnetic resonance chemical shifts in alkali iodides, cuprous halides and silver halides. <i>Journal of Physics and Chemistry of Solids</i> , 1992, 53, 239-248.	1.9	23
82	Toward understanding the anomalous Li diffusion in inorganic solid electrolytes by studying a single-crystal garnet of $\text{LLZO}-\text{Ta}$ by pulsed-gradient spin-echo nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 150, 194502.	1.2	23
83	NMR study of the behavior of hydrogen in vanadium hydride. I. Superstructure and diffusion of hydrogen in $\text{V}_2\text{H}_0.59$ . <i>Journal of Chemical Physics</i> , 1982, 76, 4392-4397.	1.2	22
84	Line shapes in CP/MAS NMR spectra of half-integer quadrupolar nuclei. <i>Chemical Physics Letters</i> , 1993, 203, 319-324.	1.2	22
85	X-ray diffraction and $^1\text{H}$ and $^{51}\text{V}$ NMR study of the $\text{Ti}-\text{V}-\text{H}$ system. <i>Journal of the Less Common Metals</i> , 1990, 161, 61-75.	0.9	21
86	Relationship between $\text{Li}^{+}$ diffusion and ion conduction for single-crystal and powder garnet-type electrolytes studied by $^{67}\text{Li}$ PGSE NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23589-23597.	1.3	21
87	The effect of toluene-insoluble fraction of coal on catalytic activities of a $\text{Ni}-\text{Mo}-\text{Al}_2\text{O}_3$ catalyst in the hydrotreating of coal liquids. <i>Fuel Processing Technology</i> , 1987, 16, 55-69.	3.7	20
88	$^7\text{Li}$ NMR diffusion studies in micrometre-space for perovskite-type $\text{Li}_{0.33}\text{La}_{0.55}\text{TiO}_3$ (LLTO) influenced by grain boundaries. <i>Solid State Ionics</i> , 2018, 326, 37-47.	1.3	20
89	Interpretation of $^{29}\text{Si}$ nuclear magnetic resonance spectra of amorphous hydrogenated silicon. <i>Journal of Applied Physics</i> , 1986, 60, 1839-1841.	1.1	19
90	Hydrogen motion and local structure of metals in $\text{Ti}_2\text{V}_2\text{H}$ as studied by $^1\text{H}$ NMR. <i>Physical Review B</i> , 1993, 48, 5837-5843.	1.1	19



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91	Structure of Ti <sub>1-x</sub> Y <sub>x</sub> alloys studied by X-ray diffraction and by <sup>1</sup> H and <sup>51</sup> V NMR. Journal of Solid State Chemistry, 1983, 46, 306-312.	1.4	18
92	Proton nuclear magnetic resonance study on hydrogen incorporation in amorphous and microcrystalline mixed phase hydrogenated silicon. Journal of Applied Physics, 1984, 56, 2658-2663.	1.1	18
93	<sup>27</sup> Al High-Resolution Solid-State NMR Study of Hydration of Ultrafine Powder of Aluminum Nitride. Bulletin of the Chemical Society of Japan, 1987, 60, 761-762.	2.0	18
94	Effect of spinning on chemical shifts in magic-angle spinning nuclear magnetic resonance. Journal of Chemical Physics, 1990, 92, 2818-2827.	1.2	18
95	Correlating the Ionic Drift under Pt/Pt Electrodes for Ionic Liquids Measured by Low-Voltage Electrophoretic NMR with Chronoamperometry. Journal of Physical Chemistry Letters, 2010, 1, 2055-2058.	2.1	18
96	Spinning-rate-dependent line shape in <sup>31</sup> P magic-angle spinning NMR spectra of inorganic phosphates. Chemical Physics Letters, 1989, 161, 158-162.	1.2	17
97	Characterization of the organic components of an Alfisol and a Vertisol in adjacent locations in Indian semi-arid tropics using optical spectroscopy, <sup>13</sup> C NMR spectroscopy, and <sup>14</sup> C dating. Geoderma, 1996, 69, 59-70.	2.3	17
98	Static and Transport Properties of Alkyltrimethylammonium Cation-Based Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2014, 118, 4590-4599.	1.2	17
99	Measurement of the Anisotropic Shielding of Protons in a Nematic Phase. Journal of Chemical Physics, 1969, 51, 1676-1677.	1.2	16
100	Structural determination of monosubstituted alkylbenzenes by proton magnetic resonance. Analytical Chemistry, 1972, 44, 1794-1803.	3.2	15
101	Characteristic diagrams of coal-derived liquids: the correlation between aromaticity and atomic HC ratios. Fuel, 1985, 64, 130-133.	3.4	15
102	X-ray diffraction and <sup>1</sup> h and <sup>51</sup> V NMR study of the structure of a Ti <sub>1-x</sub> Vi <sub>x</sub> H alloy in relation to preparation conditions. Journal of the Less Common Metals, 1986, 123, 75-84.	0.9	15
103	Spinning-rate dependence of <sup>31</sup> P magic-angle-spinning nuclear magnetic resonance spectra in condensed phosphates. Chemical Physics, 1991, 157, 381-389.	0.9	15
104	Synthesis and Solid-State Polymerization of $\alpha$ -(1,3-Butadiynyl) Substituted 1-Alkanol and Alkanoic Acid. Bulletin of the Chemical Society of Japan, 1994, 67, 455-461.	2.0	15
105	<sup>1</sup> H NMR study of hydrogen motion in the $\hat{I}^2$ phase of the Mg <sub>2</sub> NiH <sub>x</sub> system. Journal of Chemical Physics, 1983, 79, 2308-2314.	1.2	14
106	Multinuclear Solid-State NMR Study of Dehydration of Na <sup>+</sup> Type Zeolites. Bulletin of the Chemical Society of Japan, 1987, 60, 105-109.	2.0	14
107	Fabrication of Dye-Dispersed Optical-Quality Polymer Films by Coprecipitation of Cyanine Dye with Polymers. Japanese Journal of Applied Physics, 1994, 33, 5051-5059.	0.8	14
108	Factors Affecting the Solid-State Polymerization of 1,4-Bis(1,3-octadecadiynyl)benzene to a Polydiacetylene. Macromolecules, 1995, 28, 5363-5369.	2.2	14

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109	Densities, Viscosities, and Refractive Indices of Binary Room-Temperature Ionic Liquids with Common Cations/Anions. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 433-441.	1.0	14
110	$^1\text{H}$ NMR study of the phase separation and the behavior of hydrogen in $\text{Ti}_{1-x}\text{V}_x\text{H}_x$ . <i>Journal of Chemical Physics</i> , 1983, 78, 5096-5102.	1.2	13
111	High-resolution solid-state NMR study of the crystallization of hydroxysodalite. <i>Chemical Physics Letters</i> , 1984, 110, 54-57.	1.2	13
112	$^{29}\text{Si}$ nuclear magnetic resonance of amorphous hydrogenated silicon and amorphous microcrystalline mixed-phase hydrogenated silicon. <i>Physical Review B</i> , 1987, 35, 4581-4590.	1.1	13
113	Angular dependence of $^1\text{H}$ - and $^2\text{H}$ -NMR spectra of $\text{H}_2\text{O}$ and $\text{D}_2\text{O}$ absorbed in cellulose acetate film. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987, 25, 2149-2163.	2.4	13
114	Electron spin resonance of Pt(III) in anticancer platinum pyrimidine green. <i>Chemical Physics Letters</i> , 1987, 142, 423-425.	1.2	13
115	A New Fused-Ring Conjugated Polymer. Di(polydiacetylene). <i>Chemistry Letters</i> , 1990, 19, 2213-2216.	0.7	13
116	Ring current effects of phenyl and naphthyl groups: internal probes for determining the absolute configuration of chiral azetidin-2-ones by $^1\text{H}$ NMR. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 955-965.	1.8	13
117	Structural and Li-ion diffusion properties of lithium tantalum phosphate $\text{LiTa}_2\text{PO}_8$ . <i>Solid State Ionics</i> , 2020, 351, 115314.	1.3	13
118	Studies on the nuclear magnetic resonance spectra of olefinic protons of conjugated fatty acid methyl esters. <i>Lipids</i> , 1970, 5, 457-462.	0.7	12
119	$^1\text{H}$ NMR study of the $\hat{I}_2$ phase of $\text{Mg}_2\text{NiH}_x$ system. <i>Journal of Physics and Chemistry of Solids</i> , 1984, 45, 555-562.	1.9	12
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