Masahiro Tatsumisago

List of Publications by Year
in descending order

267 papers	13,058 citations	31976 53 h-index	28297 105 g-index
268 all docs	268 docs citations	268 times ranked	6955 citing authors

#	Article	IF	Citations
1	A sulphide lithium super ion conductor is superior to liquid ion conductors for use in rechargeable batteries. Energy and Environmental Science, 2014, 7, 627-631.	30.8	994
2	Superionic glass-ceramic electrolytes for room-temperature rechargeable sodium batteries. Nature Communications, 2012, 3, 856.	12.8	795
3	New, Highly Ion-Conductive Crystals Precipitated from Li2S-P2S5 Glasses. Advanced Materials, 2005, 17, 918-921.	21.0	759
4	Sulfide Solid Electrolyte with Favorable Mechanical Property for All-Solid-State Lithium Battery. Scientific Reports, 2013, 3, 2261.	3.3	702
5	Interfacial Observation between LiCoO₂ Electrode and Li₂Sâˆ’P₂S₅ Solid Electrolytes of All-Solid-State Lithium Secondary Batteries Using Transmission Electron Microscopy. Chemistry of Materials, 2010, 22, 949-956.	6.7	526
6	Preparation of Li₂Sâ€“P₂S₅ Amorphous Solid Electrolytes by Mechanical Milling. Journal of the American Ceramic Society, 2001, 84, 477-79.	3.8	350
7	Sulfurâ€“carbon composite electrode for all-solid-state Li/S battery with Li2Sâ€“P2S5 solid electrolyte. Electrochimica Acta, 2011, 56, 6055-6059.	5.2	281
8	Recent progress of glass and glass-ceramics as solid electrolytes for lithium secondary batteries. Solid State Ionics, 2006, 177, 2715-2720.	2.7	251
9	High-capacity Li2Sâ€“nanocarbon composite electrode for all-solid-state rechargeable lithium batteries. Journal of Materials Chemistry, 2012, 22, 10015.	6.7	240
10	Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. Nature Reviews Chemistry, 2019, 3, 189-198.	30.2	238
11	A sodium-ion sulfide solid electrolyte with unprecedented conductivity at room temperature. Nature Communications, 2019, 10, 5266.	12.8	216
12	Stabilization of superionic Î±-AgI at room temperature in a glass matrix. Nature, 1991, 354, 217-218.	27.8	188
13	Improvement of chemical stability of Li3PS4 glass electrolytes by adding MxOy (M = Fe, Zn, and Bi) nanoparticles. Journal of Materials Chemistry A, 2013, 1, 6320.	10.3	164
14	Preparation and characterization of highly sodium ion conducting Na₃PS₄â€“Na₄SiS₄ solid electrolytes. RSC Advances, 2014, 4, 17120-17123.	3.6	156
15	Structural and Electronic-State Changes of a Sulfide Solid Electrolyte during the Li Deinsertionâ€“Insertion Processes. Chemistry of Materials, 2017, 29, 4768-4774.	6.7	151
16	Transparent Anatase Nanocomposite Films by the Solâ€“Gel Process at Low Temperatures. Journal of the American Ceramic Society, 2000, 83, 229-31.	3.8	150
17	Evaluation of elastic modulus of Li₂Sâ€“P₂S₅ glassy solid electrolyte by ultrasonic sound velocity measurement and compression test. Journal of the Ceramic Society of Japan, 2013, 121, 946-949.	1.1	149
18	Sulfide Glassâ€Ceramic Electrolytes for Allâ€Solidâ€State Lithium and Sodium Batteries. International Journal of Applied Glass Science, 2014, 5, 226-235.	2.0	144

#	Article	IF	Citations
19	Fabrication of electrodeâ€“electrolyte interfaces in all-solid-state rechargeable lithium batteries by using a supercooled liquid state of the glassy electrolytes. Journal of Materials Chemistry, 2011, 21, 118-124.	6.7	138
20	Liquid-phase synthesis of a Li3PS4 solid electrolyte using N-methylformamide for all-solid-state lithium batteries. Journal of Materials Chemistry A, 2014, 2, 5095.	10.3	138
21	Mechanochemical Synthesis of New Amorphous Materials of 60Li₂SÂ·40SiS₂ with High Lithium Ion Conductivity. Journal of the American Ceramic Society, 1999, 82, 1352-1354.	3.8	130
22	An argyrodite sulfide-based superionic conductor synthesized by a liquid-phase technique with tetrahydrofuran and ethanol. Journal of Materials Chemistry A, 2019, 7, 558-566.	10.3	127
23	All-Solid-State Na/S Batteries with a Na₃PS₄ Electrolyte Operating at Room Temperature. Chemistry of Materials, 2017, 29, 5232-5238.	6.7	126
24	Mechanical Properties of Li₂Sâ€“P₂S₅ Glasses with Lithium Halides and Application in All-Solid-State Batteries. ACS Applied Energy Materials, 2018, 1, 1002-1007.	5.1	126
25	Lithium-Ion-Conducting Argyrodite-Type Li₆PS₅X (X = Cl, Br, I) Solid Electrolytes Prepared by a Liquid-Phase Technique Using Ethanol as a Solvent. ACS Applied Energy Materials, 2018, 1, 3622-3629.	5.1	103
26	Li₂Sâ€Based Solid Solutions as Positive Electrodes with Full Utilization and Superlong Cycle Life in Allâ€Solidâ€State Li/S Batteries. Advanced Sustainable Systems, 2017, 1, 1700017.	5.3	101
27	Preparation of Li 3 BO 3 â€“Li 2 SO 4 glassâ€“ceramic electrolytes for all-oxide lithium batteries. Journal of Power Sources, 2014, 270, 603-607.	7.8	92
28	Preparation of Proton-Conducting Amorphous Films Containing Dodecamolybdophosphoric Acid by the Sol-Gel Method. Journal of the American Ceramic Society, 1989, 72, 484-486.	3.8	89
29	Xâ€ray Crystal Structure Analysis of Sodiumâ€Ion Conductivity in 94â€‰Na₃PS₄â‹…6â€‰Na₄SiS₄ Glassâ€Ceramic Electrolytes. ChemElectroChem, 2014, 1, 1130-1132.	3.4	85
30	Electrochemical Performance of Allâ€Solidâ€State Li/S Batteries with Sulfurâ€Based Composite Electrodes Prepared by Mechanical Milling at High Temperature. Energy Technology, 2013, 1, 186-192.	3.8	83
31	Crystallization Process for Superionic Li7P3S11 Glass-Ceramic Electrolytes. Journal of the American Ceramic Society, 2011, 94, 1779-1783.	3.8	80
32	Suppression of H2S gas generation from the 75Li2SÂ·25P2S5 glass electrolyte by additives. Journal of Materials Science, 2013, 48, 4137-4142.	3.7	78
33	Bulk-Type Lithium Metal Secondary Battery with Indium Thin Layer at Interface between Li Electrode and Li2S-P2S5 Solid Electrolyte. Electrochemistry, 2012, 80, 734-736.	1.4	76
34	Structure and properties of the Na2Sâ€“P2S5 glasses and glassâ€“ceramics prepared by mechanical milling. Journal of Power Sources, 2014, 269, 260-265.	7.8	76
35	Mechanical properties of sulfide glasses in all-solid-state batteries. Journal of the Ceramic Society of Japan, 2018, 126, 719-727.	1.1	75
36	Synthesis of nanosized nickel sulfide in high-boiling solvent for all-solid-state lithium secondary batteries. Journal of Materials Chemistry, 2011, 21, 2987.	6.7	74

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37	Invited paper: Recent development of bulk-type solid-state rechargeable lithium batteries with sulfide glass-ceramic electrolytes. Electronic Materials Letters, 2012, 8, 199-207.	2.2	74
38	Preparation and characterization of superionic conducting Li7P3S11 crystal from glassy liquids. Journal of the Ceramic Society of Japan, 2010, 118, 305-308.	1.1	71
39	Liquidâ€phase sintering of highly Na⁺ ion conducting Na₃Zr₂Si₂PO₁₂ ceramics using Na₃BO₃ additive. Journal of the American Ceramic Society, 2018, 101, 1255-1265.	3.8	69
40	Superionic Conduction in Rapidly Quenched Li₂S-SiS₂-Li₃PO₄ Glasses. Journal of the Ceramic Society of Japan, 1993, 101, 1315-1317.	1.3	67
41	Fine Patterning and Characterization of Gel Films Derived from Methyltriethoxysilane and Tetraethoxysilane. Journal of the American Ceramic Society, 1998, 81, 2849-2852.	3.8	64
42	Mechanochemical Synthesis and Anode Properties of SnOâ€Based Amorphous Materials. Journal of the Electrochemical Society, 1999, 146, 3970-3973.	2.9	61
43	All-solid-state sodium batteries using amorphous TiS3 electrode with high capacity. Journal of Power Sources, 2015, 275, 284-287.	7.8	61
44	Electrochemical properties of all-solid-state lithium batteries with amorphous MoS₃ electrodes prepared by mechanical milling. Journal of Materials Chemistry A, 2015, 3, 14142-14147.	10.3	60
45	Glass Electrolytes with High Ion Conductivity and High Chemical Stability in the System LiI-Li2O-Li2S-P2S5. Electrochemistry, 2013, 81, 428-431.	1.4	59
46	Evaluation of mechanical properties of Na₂Sâ€“P₂S₅ sulfide glass electrolytes. Journal of Materials Chemistry A, 2015, 3, 22061-22065.	10.3	59
47	Mechanochemical Synthesis and Characterization of Metastable Hexagonal Li₄SnS₄ Solid Electrolyte. Inorganic Chemistry, 2018, 57, 9925-9930.	4.0	59
48	Formation of Anatase Nanocrystals in Sol-Gel Derived TiO2-SiO2 Thin Films with Hot Water Treatment. Journal of Sol-Gel Science and Technology, 2000, 19, 585-588.	2.4	58
49	Preparation of Transparent Thick Films by Electrophoretic Solâ€Gel Deposition Using Phenyltriethoxysilaneâ€Derived Particles. Journal of the American Ceramic Society, 1998, 81, 2501-2503.	3.8	58
50	Development of sulfide glass-ceramic electrolytes for all-solid-state lithium rechargeable batteries. Journal of Solid State Electrochemistry, 2010, 14, 1761-1767.	2.5	56
51	Amorphous Titanium Sulfide Electrode for All-solid-state Rechargeable Lithium Batteries with High Capacity. Chemistry Letters, 2012, 41, 886-888.	1.3	55
52	Synthesis of monodispersed silica nanoparticles with high concentration by the StÃ¶ber process. Journal of Sol-Gel Science and Technology, 2013, 68, 341-345.	2.4	55
53	Rapid Quenching Technique Using Thermal-Image Furnace for Glass Preparation. Journal of the American Ceramic Society, 1981, 64, C-97-C-98.	3.8	54
54	Morphological Effect on Reaction Distribution Influenced by Binder Materials in Composite Electrodes for Sheet-type All-Solid-State Lithium-Ion Batteries with the Sulfide-based Solid Electrolyte. Journal of Physical Chemistry C, 2019, 123, 3292-3298.	3.1	53

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55	Electrochemical Properties for the Lithium Ion Conductive (100â€xâ€‰)â€‰â€‰(â€‰0.6Li2â€‰Sâ€‰â€‰Â·â€‰0.4SiS2â€‰)â€ Glasses. Journal of the Electrochemical Society, 1999, 146, 3472-3475.	2.9	52
56	Anatase nanocrystalÂdispersed thin films via solâ€"gel process with hot water treatment: effects of poly(ethylene glycol) addition on photocatalytic activities of the films. Journal of Materials Chemistry, 2001, 11, 2045-2048.	6.7	51
57	All-solid-state lithium secondary batteries with metal-sulfide-coated LiCoO2 prepared by thermal decomposition of dithiocarbamato complexes. Journal of Materials Chemistry, 2012, 22, 15247.	6.7	50
58	Visualization and Control of Chemically Induced Crack Formation in All-Solid-State Lithium-Metal Batteries with Sulfide Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 5000-5007.	8.0	50
59	Preparation and ionic conductivity of (100â ̃x)(0.8Li2SÂ·0.2P2S5)Â·xLiI glassâ€"ceramic electrolytes. Journal of Solid State Electrochemistry, 2013, 17, 675-680.	2.5	48
60	A novel dischargeâ€"charge mechanism of a Sâ€"P₂S₅ composite electrode without electrolytes in all-solid-state Li/S batteries. Journal of Materials Chemistry A, 2017, 5, 11224-11228.	10.3	48
61	Electrical and mechanical properties of glass and glass-ceramic electrolytes in the system Li₃BO₃–Li₂SO₄. Journal of the Ceramic Society of Japan, 2017, 125, 433-437.	1.1	48
62	All-solid-state batteries with Li2O-Li2S-P2S5 glass electrolytes synthesized by two-step mechanical milling. Journal of Solid State Electrochemistry, 2013, 17, 2551-2557.	2.5	47
63	Effects of the microstructure of solid-electrolyte-coated LiCoO₂ on its discharge properties in all-solid-state lithium batteries. Journal of Materials Chemistry A, 2017, 5, 10658-10668.	10.3	47
64	Direct observation of a non-crystalline state of Li2Sâ€"P2S5 solid electrolytes. Scientific Reports, 2017, 7, 4142.	3.3	47
65	Aqueous solution synthesis of Na₃SbS₄â€"Na₂WS₄ superionic conductors. Journal of Materials Chemistry A, 2020, 8, 1947-1954.	10.3	47
66	Effects of Addition of Poly(ethylene glycol) on the Formation of Anatase Nanocrystals in SiO2â ̃TiO2Gel Films with Hot Water Treatment. Chemistry of Materials, 2001, 13, 2144-2149.	6.7	46
67	Preparation of Highly Lithiumâ€Ion Conductive 80Li₂SÂ·20P₂S₅ Thinâ€Film Electrolytes Using Pulsed Laser Deposition. Journal of the American Ceramic Society, 2010, 93, 765-768.	3.8	46
68	The crystal structure and sodium disorder of high-temperature polymorph Î²-Na₃PS₄. Journal of Materials Chemistry A, 2017, 5, 25025-25030.	10.3	46
69	Thermal Softening Behavior and Application to Transparent Thick Films of Poly(benzylsilsesquioxane) Particles Prepared by the Sol?Gel Process. Journal of the American Ceramic Society, 2001, 84, 775-780.	3.8	45
70	Highly Utilized Lithium Sulfide Active Material by Enhancing Conductivity in All-solid-state Batteries. Chemistry Letters, 2015, 44, 1664-1666.	1.3	45
71	High-Temperature Performance of All-Solid-State Lithium-Metal Batteries Having Li/Li₃PS₄Interfaces Modified with Au Thin Films. Journal of the Electrochemical Society, 2018, 165, A1950-A1954.	2.9	44
72	<i>Operando</i> Confocal Microscopy for Dynamic Changes of Li⁺ Ion Conduction Path in Graphite Electrode Layers of All-Solid-State Batteries. Journal of Physical Chemistry Letters, 2020, 11, 900-904.	4.6	44

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73	Formation of Li+ superionic crystals from the Li2Sâ€"P2S5 melt-quenched glasses. Journal of Materials Science, 2008, 43, 1885-1889.	3.7	43
74	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 27, 61-69.	2.4	42
75	Evaluation of youngâ€™s modulus of Li₂Sâ€"P₂S₅â€"P₂O<sub>5</su oxysulfide glass solid electrolytes. Journal of the Ceramic Society of Japan, 2014, 122, 552-555.	1.1	41
76	Mechanochemically Prepared Li₂Sâ€"P₂S₅â€"LiBH₄ Solid Electrolytes with an Argyrodite Structure. ACS Omega, 2018, 3, 5453-5458.	3.5	41
77	Title is missing!. Journal of Sol-Gel Science and Technology, 1999, 15, 243-249.	2.4	38
78	Sulfurâ€Based Composite Electrode with Interconnected Mesoporous Carbon for Allâ€Solidâ€State Lithiumâ€"Sulfur Batteries. Energy Technology, 2019, 7, 1900077.	3.8	38
79	ALL-SOLID-STATE LITHIUM SECONDARY, BATTERIES USING SULFIDE-BASED GLASS CERAMIC ELECTROLYTES. Functional Materials Letters, 2008, 01, 31-36.	1.2	37
80	29Si and 31P MAS-NMR Spectra of Li2S-SiS2-Li3PO4 Rapidly Quenched Glasses. Journal of the American Ceramic Society, 1996, 79, 349-352.	3.8	36
81	Structure analyses using X-ray photoelectron spectroscopy and X-ray absorption near edge structure for amorphous MS3 (M: Ti, Mo) electrodes in all-solid-state lithium batteries. Journal of Power Sources, 2016, 313, 104-111.	7.8	36
82	Preparation of Thick Silica Films by the Electrophoretic Sol-Gel Deposition on a Stainless Steel Sheet. Journal of the Ceramic Society of Japan, 1995, 103, 78-80.	1.3	35
83	Thermoplastic and thermosetting properties of polyphenylsilsesquioxane particles prepared by two-step acid-base catalyzed sol-gel process. Journal of Sol-Gel Science and Technology, 2007, 41, 217-222.	2.4	35
84	Sodium-ion Conducting Na3PS4 Electrolyte Synthesized via a Liquid-phase Process Using <i>N</i>-Methylformamide. Chemistry Letters, 2015, 44, 884-886.	1.3	35
85	Preparation of Sodium Ion Conductive Na₁₀GeP₂S₁₂ Glass-ceramic Electrolytes. Chemistry Letters, 2018, 47, 13-15.	1.3	35
86	A reversible oxygen redox reaction in bulk-type all-solid-state batteries. Science Advances, 2020, 6, eaax7236.	10.3	34
87	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 61-69.	2.4	33
88	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 41-46.	2.4	33
89	Anti-Reflective Coatings of Flowerlike Alumina on Various Glass Substrates by the Sol?Gel Process with the Hot Water Treatment. Journal of Sol-Gel Science and Technology, 2005, 33, 117-120.	2.4	33
90	Preparation Conditions and Morphology of Superconducting Fine Particles in the Bi-Ca-Sr-Cu-O System Prepared by Spray Pyrolysis. Journal of the American Ceramic Society, 1991, 74, 2117-2122.	3.8	32

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91	Preparation of Thick Silica Films by the Electrophoretic Sol-Gel Deposition Using a Cationic Polymer Surfactant. Journal of the Ceramic Society of Japan, 1997, 105, 569-572.	1.3	32
92	Thermal Softening Behavior of Poly(phenylsilsesquioxane) and Poly(benzylsilsesquioxane) Particles.. Journal of the Ceramic Society of Japan, 2000, 108, 830-835.	1.3	32
93	Synthesis of Needlelike and Platelike SnS Active Materials in High-Boiling Solvents and Their Application to All-Solid-State Lithium Secondary Batteries. Crystal Growth and Design, 2011, 11, 3900-3904.	3.0	32
94	Formation of Li2Sâ€"P2S5 Solid Electrolyte from <i>N</i>-Methylformamide Solution. Chemistry Letters, 2013, 42, 1435-1437.	1.3	32
95	Transition range viscosity of rapidly quenched Biâ€Caâ€Srâ€Cuâ€O glasses. Applied Physics Letters, 1989, 54, 2268-2270.	3.3	30
96	Heat-treatment effect of dispersed particles on the preparation of thick silica films by using electrophoretic sol-gel deposition. Journal of Materials Science, 1996, 31, 6529-6533.	3.7	30
97	X-ray photoelectron spectroscopy for sulfide glass electrolytes in the systems Li₂S–P₂S₅ and Li₂S–P₂S₅–LiBr. Journal of the Ceramic Society of Japan, 2016, 124, 597-601.	1.1	30
98	Characterization of sulfur nanocomposite electrodes containing phosphorus sulfide for high-capacity all-solid-state Na/S batteries. Solid State Ionics, 2017, 311, 6-13.	2.7	30
99	Crystallization behavior of the Li2Sâ€"P2S5 glass electrolyte in the LiNi1/3Mn1/3Co1/3O2 positive electrode layer. Scientific Reports, 2018, 8, 6214.	3.3	30
100	Investigation of the Suppression of Dendritic Lithium Growth with a Lithium-Iodide-Containing Solid Electrolyte. Chemistry of Materials, 2021, 33, 4907-4914.	6.7	30
101	Direct Formation of Mg?Al-Layered Double-Hydroxide Films on Glass Substrate by the Sol?Gel Method With Hot Water Treatment. Journal of the American Ceramic Society, 2007, 90, 1940-1942.	3.8	29
102	All-solid-state Lithium Secondary Batteries Using Li2Sâ€"P2S5 Solid Electrolytes and LiFePO4 Electrode Particles with Amorphous Surface Layer. Chemistry Letters, 2012, 41, 260-261.	1.3	29
103	Structure Analyses of Amorphous MoS₃ Active Materials in All-solid-state Lithium Batteries. Electrochemistry, 2015, 83, 889-893.	1.4	29
104	Amorphous LiCoO 2 Li 2 SO 4 active materials: Potential positive electrodes for bulk-type all-oxide solid-state lithium batteries with high energy density. Journal of Power Sources, 2017, 348, 1-8.	7.8	29
105	Infrared Spectra of Rapidly Quenched Glasses in the Systems Li2O-RO-Nb2O5(R=Ba, Ca, Mg). Journal of the American Ceramic Society, 1983, 66, 117-119.	3.8	28
106	Crystallization kinetics for quenched Biâ€Caâ€Srâ€Cuâ€O glasses. Applied Physics Letters, 1989, 55, 600-602.	3.3	28
107	Preparation of LiCoPO₄ for Lithium Battery Cathodes through Solution Process. Electrochemistry, 2003, 71, 1192-1195.	1.4	28
108	Structural Investigation of 95(0.6Li₂S0.4SiS₂)5Li₄SiO₄ Oxysulfide Glass by Using Xâ€ray Photoelectron Spectroscopy. Journal of the American Ceramic Society, 1998, 81, 1305-1309.	3.8	27

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109	Mechanochemical synthesis and crystallization of Li₃BO₃–Li₂CO₃ glass electrolytes. Journal of the Ceramic Society of Japan, 2016, 124, 915-919.	1.1	27
110	Structural Investigation of Rapidly Quenched Li₂O-B₂O₃ Glasses by Raman Spectroscopy. Journal of the Ceramic Association Japan, 1986, 94, 464-469.	0.2	26
111	Mixed Anion Effect in Conductivity of Rapidly Quenched Li₄SiO₄-Li₃BO₃ Glasses. Journal of the Ceramic Association Japan, 1987, 95, 197-201.	0.2	26
112	Vitrification and Crystallization Processes of High-<i>T</i>_c Superconducting Oxides in the System Bi-Ca-Sr-Cu-O. Journal of the Ceramic Society of Japan, 1989, 97, 334-338.	1.3	26
113	Formation of TiO2(B) Nanocrystallites in Solâ€Gelâ€Derived SiO2â€TiO2 Film. Journal of the American Ceramic Society, 1999, 82, 3248-3250.	3.8	26
114	Solid Electrolyte with Oxidation Tolerance Provides a Highâ€Capacity Li₂Sâ€Based Positive Electrode for Allâ€Solidâ€State Li/S Batteries. Advanced Functional Materials, 2022, 32, 2106174.	14.9	25
115	Preparation of Thick Silica Films by Combined Sol-Gel and Electrophoretic Deposition Methods. Journal of the Ceramic Society of Japan, 1994, 102, 336-340.	1.3	24
116	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 20, 129-134.	2.4	24
117	Hot-water treatment of solâ€“gel derived SiO2â€“TiO2 microparticles and application to electrophoretic deposition for thick films. Journal of Materials Science, 2006, 41, 8101-8108.	3.7	24
118	Growth mechanism of large monodispersed silica particles prepared from tetraethoxysilane in the presence of sodium dodecyl sulfate. Journal of Sol-Gel Science and Technology, 1997, 9, 25-31.	2.4	23
119	Preparation of Coâ€“Al and Niâ€“Al layered double hydroxide thin films by a solâ€“gel process with hot water treatment. Journal of Sol-Gel Science and Technology, 2012, 62, 111-116.	2.4	23
120	Preparation of Titania Thick Films by Electrophoretic Sol-Gel Deposition Using Hydrothermally Treated Particles. Journal of the Ceramic Society of Japan, 1998, 106, 1034-1036.	1.3	22
121	Phosphosilicate Gels as a Solid State Proton Conductor at Medium Temperature and Low Humidity.. Journal of the Ceramic Society of Japan, 2002, 110, 131-134.	1.3	22
122	Photocatalytic Micropatterning of Transparent Ethylsilsesquioxaneâ^'Titania Hybrid Films. Chemistry of Materials, 2002, 14, 2693-2700.	6.7	22
123	Characterization of Li2Sâ€“P2S5â€“Cu composite electrode for all-solid-state lithium secondary batteries. Journal of Materials Science, 2010, 45, 377-381.	3.7	22
124	Quantitative analysis of crystallinity in an argyrodite sulfide-based solid electrolyte synthesized via solution processing. RSC Advances, 2019, 9, 14465-14471.	3.6	22
125	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. ACS Omega, 2020, 5, 26287-26294.	3.5	22
126	Preparation and Characterization of Cation-Substituted Na₃SbS₄ Solid Electrolytes. ACS Applied Energy Materials, 2020, 3, 11706-11712.	5.1	22

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127	Temperatureâ€timeâ€transformation diagrams for crystallization process of rapidly quenched Biâ€Pbâ€Caâ€Srâ€Cuâ€O glasses. Applied Physics Letters, 1990, 57, 195-197.	3.3	21
128	Electrochemical properties of all-solid-state lithium batteries with amorphous titanium sulfide electrodes prepared by mechanical milling. Journal of Solid State Electrochemistry, 2013, 17, 2697-2701.	2.5	21
129	Preparation and electrochemical characterization of (100Ââˆ'Âx)(0.7Li2SÂ·0.3P2S5)Â·xLiBr glassâ€"ceramic electrolytes. Materials for Renewable and Sustainable Energy, 2014, 3, 1.	3.6	21
130	Formation of Frozen alpha-AgI in Twin-Roller-Quenched AgIAg2 OMxOy (MxOy = WO3, V2O5) Glasses at Ambient Temperature. Journal of the American Ceramic Society, 1993, 76, 235-237.	3.8	20
131	Preparation of Fast Lithium Ion Conducting Glasses in the System Li2Sâˆ'SiS2âˆ'Li3N. Journal of Physical Chemistry B, 1999, 103, 4029-4031.	2.6	20
132	Raman Spectroscopy for LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ Composite Positive Electrodes in All-Solid-State Lithium Batteries. Electrochemistry, 2016, 84, 812-814.	1.4	20
133	Preparation and Properties of Quenched Li2O-BaO-Nb2O5 Glasses. Journal of the American Ceramic Society, 1982, 65, 575-577.	3.8	19
134	Highly Stable Li/Li₃BO₃â€"Li₂SO₄ Interface and Application to Bulk-Type All-Solid-State Lithium Metal Batteries. ACS Applied Energy Materials, 2019, 2, 3042-3048.	5.1	19
135	High-rate operation of sulfur/mesoporous activated carbon composite electrode for all-solid-state lithium-sulfur batteries. Journal of the Ceramic Society of Japan, 2020, 128, 233-237.	1.1	19
136	Preparation and characterization of sodium-ion conductive Na₃BS₃ glass and glassâ€"ceramic electrolytes. Materials Advances, 2021, 2, 1676-1682.	5.4	19
137	Electrode performance of amorphous MoS3 in all-solid-state sodium secondary batteries. Journal of Power Sources Advances, 2021, 10, 100061.	5.1	19
138	Preparation of Rapidly Quenched Glasses in Pseudobinary Systems Composed of Lithium Ortho-Oxosalts. Journal of the American Ceramic Society, 1983, 66, c210-c211.	3.8	18
139	Electrochromic Properties of Sputtered Amorphous Films in the Systems â€‰WOâ€‰3â€‰â€â€‰Nb2â€‰Oâ€‰5 and Li2â€‰Oâ€‰â€‰â€â€‰â€‰WOâ€‰3â€‰â€â€‰Nb2â€‰Oâ€‰5. Journal of the Electrochemical Society, 1986, 133, 1963-196	2.9	18
140	Transformation-Range Viscosity and Thermal Property of Sodium Silicate Glasses. Journal of the Ceramic Society of Japan, 1993, 101, 1018-1020.	1.3	18
141	Preparation of Copolymerized Phenylsilsesquioxane-Benzylsilsesquioxane Particles. Journal of Sol-Gel Science and Technology, 2002, 23, 247-252.	2.4	18
142	Lowering of Preparation Temperatures of Anatase Nanocrystals-Dispersed Coatings via Sol-Gel Process with Hot Water Treatment. Journal of the American Ceramic Society, 2005, 88, 1421-1426.	3.8	18
143	All-solid-state sodium-sulfur battery showing full capacity with activated carbon MSP20-sulfur-Na3SbS4 composite. Electrochemistry Communications, 2020, 116, 106741.	4.7	18
144	Micropatterning on Methylsilsesquioxaneâ€" Phenylsilsesquioxane Thick Films by the Solâ€"Gel Method. Journal of the American Ceramic Society, 2000, 83, 3211-3213.	3.8	17

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