Masahiro Tatsumisago

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

259 papers

9,889 citations

46 h-index

91 g-index

268 ext. papers

11,197 ext. citations

4.0 avg, IF

6.52 L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 259 | A sulphide lithium super ion conductor is superior to liquid ion conductors for use in rechargeable batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 627-631 | 35.4 | 771 |
| 258 | New, Highly Ion-Conductive Crystals Precipitated from Li2SP2S5 Glasses. <i>Advanced Materials</i> , 2005 , 17, 918-921 | 24 | 607 |
| 257 | Superionic glass-ceramic electrolytes for room-temperature rechargeable sodium batteries. <i>Nature Communications</i> , 2012 , 3, 856 | 17.4 | 603 |
| 256 | Sulfide solid electrolyte with favorable mechanical property for all-solid-state lithium battery. <i>Scientific Reports</i> , 2013 , 3, 2261 | 4.9 | 504 |
| 255 | Interfacial Observation between LiCoO2 Electrode and Li2SP2S5 Solid Electrolytes of All-Solid-State Lithium Secondary Batteries Using Transmission Electron Microscopy[] <i>Chemistry of Materials</i> , 2010 , 22, 949-956 | 9.6 | 415 |
| 254 | Preparation of Li2SP2S5 Amorphous Solid Electrolytes by Mechanical Milling. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 477-79 | 3.8 | 263 |
| 253 | SulfurBarbon composite electrode for all-solid-state Li/S battery with Li2SP2S5 solid electrolyte. <i>Electrochimica Acta</i> , 2011 , 56, 6055-6059 | 6.7 | 238 |
| 252 | Recent progress of glass and glass-ceramics as solid electrolytes for lithium secondary batteries. <i>Solid State Ionics</i> , 2006 , 177, 2715-2720 | 3.3 | 214 |
| 251 | High-capacity Li2SBanocarbon composite electrode for all-solid-state rechargeable lithium batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10015 | | 210 |
| 250 | Stabilization of superionic Agl at room temperature in a glass matrix. <i>Nature</i> , 1991 , 354, 217-218 | 50.4 | 155 |
| 249 | Transparent Anatase Nanocomposite Films by the Sol G el Process at Low Temperatures. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 229-31 | 3.8 | 139 |
| 248 | Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. <i>Nature Reviews Chemistry</i> , 2019 , 3, 189-198 | 34.6 | 138 |
| 247 | Preparation and characterization of highly sodium ion conducting Na3PS4Na4SiS4 solid electrolytes. <i>RSC Advances</i> , 2014 , 4, 17120-17123 | 3.7 | 123 |
| 246 | Fabrication of electrode lectrolyte interfaces in all-solid-state rechargeable lithium batteries by using a supercooled liquid state of the glassy electrolytes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 118- | -124 | 117 |
| 245 | Improvement of chemical stability of Li3PS4 glass electrolytes by adding MxOy (M = Fe, Zn, and Bi) nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6320 | 13 | 115 |
| 244 | Sulfide Glass-Ceramic Electrolytes for All-Solid-State Lithium and Sodium Batteries. <i>International Journal of Applied Glass Science</i> , 2014 , 5, 226-235 | 1.8 | 114 |
| 243 | Structural and Electronic-State Changes of a Sulfide Solid Electrolyte during the Li Deinsertion[hsertion Processes. <i>Chemistry of Materials</i> , 2017 , 29, 4768-4774 | 9.6 | 111 |

(2012-2019)

| 242 | A sodium-ion sulfide solid electrolyte with unprecedented conductivity at room temperature. <i>Nature Communications</i> , 2019 , 10, 5266 | 17.4 | 108 |
|-----|---|------|-----|
| 241 | Liquid-phase synthesis of a Li3PS4 solid electrolyte using N-methylformamide for all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5095 | 13 | 107 |
| 240 | Evaluation of elastic modulus of Li2SP2S5 glassy solid electrolyte by ultrasonic sound velocity measurement and compression test. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 946-949 | 1 | 100 |
| 239 | Mechanochemical Synthesis of New Amorphous Materials of 60Li2SE40SiS2 with High Lithium Ion Conductivity. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1352-1354 | 3.8 | 96 |
| 238 | All-Solid-State Na/S Batteries with a Na3PS4 Electrolyte Operating at Room Temperature. <i>Chemistry of Materials</i> , 2017 , 29, 5232-5238 | 9.6 | 95 |
| 237 | Mechanical Properties of Li2SP2S5 Glasses with Lithium Halides and Application in All-Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1002-1007 | 6.1 | 89 |
| 236 | An argyrodite sulfide-based superionic conductor synthesized by a liquid-phase technique with tetrahydrofuran and ethanol. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 558-566 | 13 | 79 |
| 235 | Preparation of Li 3 BO 3 li 2 SO 4 glasseeramic electrolytes for all-oxide lithium batteries. <i>Journal of Power Sources</i> , 2014 , 270, 603-607 | 8.9 | 78 |
| 234 | X-ray Crystal Structure Analysis of Sodium-Ion Conductivity in 94 Na3PS4?6 Na4SiS4 Glass-Ceramic Electrolytes. <i>ChemElectroChem</i> , 2014 , 1, 1130-1132 | 4.3 | 76 |
| 233 | Electrochemical Performance of All-Solid-State Li/S Batteries with Sulfur-Based Composite Electrodes Prepared by Mechanical Milling at High Temperature. <i>Energy Technology</i> , 2013 , 1, 186-192 | 3.5 | 71 |
| 232 | Lithium-Ion-Conducting Argyrodite-Type Li6PS5X (X = Cl, Br, I) Solid Electrolytes Prepared by a Liquid-Phase Technique Using Ethanol as a Solvent. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3622-3629 | 6.1 | 69 |
| 231 | Synthesis of nanosized nickel sulfide in high-boiling solvent for all-solid-state lithium secondary batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2987 | | 69 |
| 230 | Preparation of Proton-Conducting Amorphous Films Containing Dodecamolybdophosphoric Acid by the Sol © el Method. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 484-486 | 3.8 | 69 |
| 229 | Crystallization Process for Superionic Li7P3S11 Glass©eramic Electrolytes. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1779-1783 | 3.8 | 65 |
| 228 | Preparation and characterization of superionic conducting Li7P3S11 crystal from glassy liquids. Journal of the Ceramic Society of Japan, 2010 , 118, 305-308 | 1 | 64 |
| 227 | Li2S-Based Solid Solutions as Positive Electrodes with Full Utilization and Superlong Cycle Life in All-Solid-State Li/S Batteries. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700017 | 5.9 | 63 |
| 226 | Invited paper: Recent development of bulk-type solid-state rechargeable lithium batteries with sulfide glass-ceramic electrolytes. <i>Electronic Materials Letters</i> , 2012 , 8, 199-207 | 2.9 | 62 |
| 225 | Bulk-Type Lithium Metal Secondary Battery with Indium Thin Layer at Interface between Li Electrode and Li2S-P2S5 Solid Electrolyte. <i>Electrochemistry</i> , 2012 , 80, 734-736 | 1.2 | 60 |

| 224 | Superionic Conduction in Rapidly Quenched Li2S-SiS2-Li3PO4 Glasses. <i>Journal of the Ceramic Society of Japan</i> , 1993 , 101, 1315-1317 | | 60 |
|-----|--|-----|----|
| 223 | Structure and properties of the Na2SP2S5 glasses and glassEeramics prepared by mechanical milling. <i>Journal of Power Sources</i> , 2014 , 269, 260-265 | 8.9 | 54 |
| 222 | Suppression of H2S gas generation from the 75Li2SP2SP2S5 glass electrolyte by additives. <i>Journal of Materials Science</i> , 2013 , 48, 4137-4142 | 4.3 | 53 |
| 221 | Rapid Quenching Technique Using Thermal-Image Furnace for Glass Preparation. <i>Journal of the American Ceramic Society</i> , 1981 , 64, C-97-C-98 | 3.8 | 53 |
| 220 | All-solid-state sodium batteries using amorphous TiS3 electrode with high capacity. <i>Journal of Power Sources</i> , 2015 , 275, 284-287 | 8.9 | 51 |
| 219 | Electrochemical properties of all-solid-state lithium batteries with amorphous MoS3 electrodes prepared by mechanical milling. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14142-14147 | 13 | 50 |
| 218 | Formation of Anatase Nanocrystals in Sol-Gel Derived TiO2-SiO2 Thin Films with Hot Water Treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 19, 585-588 | 2.3 | 50 |
| 217 | Fine Patterning and Characterization of Gel Films Derived from Methyltriethoxysilane and Tetraethoxysilane. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2849-2852 | 3.8 | 49 |
| 216 | Anatase nanocrystal-dispersed thin films via solgel process with hot water treatment: effects of poly(ethylene glycol) addition on photocatalytic activities of the films. <i>Journal of Materials Chemistry</i> , 2001 , 11, 2045-2048 | | 49 |
| 215 | Mechanochemical Synthesis and Anode Properties of SnO-Based Amorphous Materials. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3970-3973 | 3.9 | 49 |
| 214 | Amorphous Titanium Sulfide Electrode for All-solid-state Rechargeable Lithium Batteries with High Capacity. <i>Chemistry Letters</i> , 2012 , 41, 886-888 | 1.7 | 48 |
| 213 | All-solid-state lithium secondary batteries with metal-sulfide-coated LiCoO2 prepared by thermal decomposition of dithiocarbamato complexes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15247 | | 46 |
| 212 | Glass Electrolytes with High Ion Conductivity and High Chemical Stability in the System LiI-Li2O-Li2S-P2S5. <i>Electrochemistry</i> , 2013 , 81, 428-431 | 1.2 | 46 |
| 211 | Mechanical properties of sulfide glasses in all-solid-state batteries. <i>Journal of the Ceramic Society of Japan</i> , 2018 , 126, 719-727 | 1 | 46 |
| 210 | Evaluation of mechanical properties of Na2SP2S5 sulfide glass electrolytes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22061-22065 | 13 | 45 |
| 209 | Development of sulfide glass-ceramic electrolytes for all-solid-state lithium rechargeable batteries. Journal of Solid State Electrochemistry, 2010, 14, 1761-1767 | 2.6 | 44 |
| 208 | Liquid-phase sintering of highly Na+ ion conducting Na3Zr2Si2PO12 ceramics using Na3BO3 additive. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1255-1265 | 3.8 | 44 |
| 207 | Effects of the microstructure of solid-electrolyte-coated LiCoO2 on its discharge properties in all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10658-10668 | 13 | 43 |

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| 206 | Preparation of Transparent Thick Films by Electrophoretic Sol-Gel Deposition Using Phenyltriethoxysilane-Derived Particles. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2501-2503 | 3.8 | 42 | |
|-----|---|-------|----|--|
| 205 | Mechanochemical Synthesis and Characterization of Metastable Hexagonal LiSnS Solid Electrolyte. <i>Inorganic Chemistry</i> , 2018 , 57, 9925-9930 | 5.1 | 40 | |
| 204 | Thermal Softening Behavior and Application to Transparent Thick Films of Poly(benzylsilsesquioxane) Particles Prepared by the Sol © el Process. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 775-780 | 3.8 | 40 | |
| 203 | Electrochemical Properties for the Lithium Ion Conductive (100-x) (0.6Li2 S 0.4SiS2) 0xLi4SiO4 Oxysulfide Glasses. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3472-3475 | 3.9 | 40 | |
| 202 | Synthesis of monodispersed silica nanoparticles with high concentration by the StBer process. Journal of Sol-Gel Science and Technology, 2013 , 68, 341-345 | 2.3 | 39 | |
| 201 | Formation of Anatase Nanocrystals-Precipitated Silica Coatings on Plastic Substrates by the Sol-Gel Process with Hot Water Treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 27, 61-69 | 2.3 | 39 | |
| 200 | A novel discharge Tharge mechanism of a SP2S5 composite electrode without electrolytes in all-solid-state Li/S batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11224-11228 | 13 | 38 | |
| 199 | Preparation and ionic conductivity of (100日)(0.8Li2SE0.2P2S5)ExLiI glassEeramic electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 675-680 | 2.6 | 38 | |
| 198 | Effects of Addition of Poly(ethylene glycol) on the Formation of Anatase Nanocrystals in SiO2 T iO2 Gel Films with Hot Water Treatment. <i>Chemistry of Materials</i> , 2001 , 13, 2144-2149 | 9.6 | 38 | |
| 197 | Electrical and mechanical properties of glass and glass-ceramic electrolytes in the system Li3BO3–Li2SO4. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 433-437 | 1 | 37 | |
| 196 | Formation of Li+ superionic crystals from the Li2SP2S5 melt-quenched glasses. <i>Journal of Materials Science</i> , 2008 , 43, 1885-1889 | 4.3 | 37 | |
| 195 | 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. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3292-3298 | 3.8 | 35 | |
| 194 | Highly Utilized Lithium Sulfide Active Material by Enhancing Conductivity in All-solid-state Batteries. <i>Chemistry Letters</i> , 2015 , 44, 1664-1666 | 1.7 | 35 | |
| 193 | All-solid-state batteries with Li2O-Li2S-P2S5 glass electrolytes synthesized by two-step mechanical milling. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2551-2557 | 2.6 | 34 | |
| 192 | Preparation of Highly Lithium-Ion Conductive 80Li2S\(\textit{\Omega}\)0P2S5 Thin-Film Electrolytes Using Pulsed Laser Deposition. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 765-768 | 3.8 | 34 | |
| 191 | ALL-SOLID-STATE LITHIUM SECONDARY, BATTERIES USING SULFIDE-BASED GLASS CERAMIC ELECTROLYTES. <i>Functional Materials Letters</i> , 2008 , 01, 31-36 | 1.2 | 34 | |
| 190 | The crystal structure and sodium disorder of high-temperature polymorph 即a3PS4. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25025-25030 | 13 | 32 | |
| 189 | Direct observation of a non-crystalline state of LiS-PS solid electrolytes. <i>Scientific Reports</i> , 2017 , 7, 4147 | 2 4.9 | 31 | |

| 188 | Synthesis of Needlelike and Platelike SnS Active Materials in High-Boiling Solvents and Their Application to All-Solid-State Lithium Secondary Batteries. <i>Crystal Growth and Design</i> , 2011 , 11, 3900-39 | 1 1 1 1 1 1 1 1 1 1 | 31 | |
|-----|--|----------------------------|-----------------|--|
| 187 | Preparation of Thick Silica Films by the Electrophoretic Sol-Gel Deposition on a Stainless Steel Sheet. <i>Journal of the Ceramic Society of Japan</i> , 1995 , 103, 78-80 | | 31 | |
| 186 | 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. <i>Journal of Power Sources</i> , 2016 , 313, 104-111 | 8.9 | 30 | |
| 185 | Sodium-ion Conducting Na3PS4 Electrolyte Synthesized via a Liquid-phase Process Using N-Methylformamide. <i>Chemistry Letters</i> , 2015 , 44, 884-886 | 1.7 | 29 | |
| 184 | Thermoplastic and thermosetting properties of polyphenylsilsesquioxane particles prepared by two-step acid-base catalyzed sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2007 , 41, 217-22 | 2 3 .3 | 29 | |
| 183 | Anti-Reflective Coatings of Flowerlike Alumina on Various Glass Substrates by the Sol © el Process with the Hot Water Treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 33, 117-120 | 2.3 | 29 | |
| 182 | Photocatalytic Decomposition of Acetaldehyde with Anatase Nanocrystals-Dispersed Silica Films Prepared by the Sol-Gel Process with Hot Water Treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2001 , 22, 41-46 | 2.3 | 29 | |
| 181 | High-Temperature Performance of All-Solid-State Lithium-Metal Batteries Having Li/Li3PS4Interfaces Modified with Au Thin Films. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A195 | o²:⁄819 | 54 ⁸ | |
| 180 | Direct Formation of MgAl-Layered Double-Hydroxide Films on Glass Substrate by the Sol © el Method With Hot Water Treatment. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1940-1942 | 3.8 | 28 | |
| 179 | Thermal Softening Behavior of Poly(phenylsilsesquioxane) and Poly(benzylsilsesquioxane) Particles <i>Journal of the Ceramic Society of Japan</i> , 2000 , 108, 830-835 | | 28 | |
| 178 | Evaluation of young modulus of Li2SP2S5P2O5 oxysulfide glass solid electrolytes. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 552-555 | 1 | 27 | |
| 177 | Preparation of Thick Films by Electrophoretic Deposition Using Surface Modified Silica Particles Derived from Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 1999 , 15, 243-249 | 2.3 | 27 | |
| 176 | Preparation of LiCoPO4 for Lithium Battery Cathodes through Solution Process. <i>Electrochemistry</i> , 2003 , 71, 1192-1195 | 1.2 | 26 | |
| 175 | Preparation and Characterization of Highly Proton-Conductive Composites Composed of Phosphoric Acid-Doped Silica Gel and Styrene-Ethylene-Butylene-Styrene Elastomer. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 17, 61-69 | 2.3 | 26 | |
| 174 | Transition range viscosity of rapidly quenched Bi-Ca-Sr-Cu-O glasses. <i>Applied Physics Letters</i> , 1989 , 54, 2268-2270 | 3.4 | 26 | |
| 173 | Crystallization kinetics for quenched Bi-Ca-Sr-Cu-O glasses. <i>Applied Physics Letters</i> , 1989 , 55, 600-602 | 3.4 | 26 | |
| 172 | Vitrification and Crystallization Processes of High-Tc Superconducting Oxides in the System Bi-Ca-Sr-Cu-O. <i>Journal of the Ceramic Society of Japan</i> , 1989 , 97, 334-338 | | 26 | |
| 171 | Structural Investigation of Rapidly Quenched Li2O-B2O3 Glasses by Raman Spectroscopy. <i>Journal of the Ceramic Association Japan</i> , 1986 , 94, 464-469 | | 26 | |

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| 170 | Structure Analyses of Amorphous MoS3 Active Materials in All-solid-state Lithium Batteries. <i>Electrochemistry</i> , 2015 , 83, 889-893 | 1.2 | 25 | |
|-----|--|-----|----|--|
| 169 | Formation of Li2SP2S5 Solid Electrolyte from N-Methylformamide Solution. <i>Chemistry Letters</i> , 2013 , 42, 1435-1437 | 1.7 | 25 | |
| 168 | Preparation of Thick Silica Films by the Electrophoretic Sol-Gel Deposition Using a Cationic Polymer Surfactant. <i>Journal of the Ceramic Society of Japan</i> , 1997 , 105, 569-572 | | 25 | |
| 167 | Preparation Conditions and Morphology of Superconducting Fine Particles in the Bi-Ca-Sr-Cu-O System Prepared by Spray Pyrolysis. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 2117-2122 | 3.8 | 25 | |
| 166 | X-ray photoelectron spectroscopy for sulfide glass electrolytes in the systems Li2S–P2S5 and Li2S–P2S5–LiBr. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 597-601 | 1 | 24 | |
| 165 | Characterization of sulfur nanocomposite electrodes containing phosphorus sulfide for high-capacity all-solid-state Na/S batteries. <i>Solid State Ionics</i> , 2017 , 311, 6-13 | 3.3 | 24 | |
| 164 | All-solid-state Lithium Secondary Batteries Using Li2S B 2S5 Solid Electrolytes and LiFePO4 Electrode Particles with Amorphous Surface Layer. <i>Chemistry Letters</i> , 2012 , 41, 260-261 | 1.7 | 24 | |
| 163 | Mechanochemically Prepared LiS-PS-LiBH Solid Electrolytes with an Argyrodite Structure. <i>ACS Omega</i> , 2018 , 3, 5453-5458 | 3.9 | 24 | |
| 162 | 29Si and 31P MAS-NMR Spectra of Li2S-SiS2-Li3PO4 Rapidly Quenched Glasses. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 349-352 | 3.8 | 23 | |
| 161 | Mixed Anion Effect in Conductivity of Rapidly Quenched Li4SiO4-Li3BO3 Glasses. <i>Journal of the Ceramic Association Japan</i> , 1987 , 95, 197-201 | | 23 | |
| 160 | Confocal Microscopy for Dynamic Changes of Li Ion Conduction Path in Graphite Electrode Layers of All-Solid-State Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 900-904 | 6.4 | 22 | |
| 159 | Crystallization behavior of the LiS-PS glass electrolyte in the LiNiMnCoO positive electrode layer. <i>Scientific Reports</i> , 2018 , 8, 6214 | 4.9 | 22 | |
| 158 | Preparation of CoAl and NiAl layered double hydroxide thin films by a solgel process with hot water treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 62, 111-116 | 2.3 | 22 | |
| 157 | Formation of TiO2(B) Nanocrystallites in Sol-Gel-Derived SiO2-TiO2 Film. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3248-3250 | 3.8 | 22 | |
| 156 | Structural Investigation of 95(0.6Li2S0.4SiS2)5Li4SiO4 Oxysulfide Glass by Using X-ray Photoelectron Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1305-1309 | 3.8 | 22 | |
| 155 | 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. <i>Journal of Power Sources</i> , 2017 , 348, 1-8 | 8.9 | 21 | |
| 154 | Hot-water treatment of solgel derived SiO2IIiO2 microparticles and application to electrophoretic deposition for thick films. <i>Journal of Materials Science</i> , 2006 , 41, 8101-8108 | 4.3 | 21 | |
| 153 | Preparation of Thick Silica Films by Combined Sol-Gel and Electrophoretic Deposition Methods. Journal of the Ceramic Society of Japan, 1994 , 102, 336-340 | | 21 | |

| 152 | Preparation of Sodium Ion Conductive Na10GeP2S12 Glass-ceramic Electrolytes. <i>Chemistry Letters</i> , 2018 , 47, 13-15 | 1.7 | 20 |
|-----|---|-----|----|
| 151 | Photocatalytic Micropatterning of Transparent Ethylsilsesquioxane T itania Hybrid Films. <i>Chemistry of Materials</i> , 2002 , 14, 2693-2700 | 9.6 | 20 |
| 150 | Preparation of Titania Thick Films by Electrophoretic Sol-Gel Deposition Using Hydrothermally Treated Particles. <i>Journal of the Ceramic Society of Japan</i> , 1998 , 106, 1034-1036 | | 20 |
| 149 | Mechanochemical synthesis and crystallization of Li3BO3–Li2CO3 glass electrolytes. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 915-919 | 1 | 19 |
| 148 | Changes in Porosity and Amounts of Adsorbed Water in Sol-Gel Derived Porous Silica Films with Heat Treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2001 , 20, 129-134 | 2.3 | 19 |
| 147 | Temperature-time-transformation diagrams for crystallization process of rapidly quenched Bi-Pb-Ca-Sr-Cu-O glasses. <i>Applied Physics Letters</i> , 1990 , 57, 195-197 | 3.4 | 19 |
| 146 | Aqueous solution synthesis of Na3SbS4Na2WS4 superionic conductors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1947-1954 | 13 | 19 |
| 145 | Visualization and Control of Chemically Induced Crack Formation in All-Solid-State Lithium-Metal Batteries with Sulfide Electrolyte. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 5000-5007 | 9.5 | 19 |
| 144 | Sulfur-Based Composite Electrode with Interconnected Mesoporous Carbon for All-Solid-State LithiumBulfur Batteries. <i>Energy Technology</i> , 2019 , 7, 1900077 | 3.5 | 18 |
| 143 | Preparation and electrochemical characterization of (100 lk)(0.7Li2Si0.3P2S5)lkLiBr glassileramic electrolytes. <i>Materials for Renewable and Sustainable Energy</i> , 2014 , 3, 1 | 4.7 | 18 |
| 142 | Electrochemical properties of all-solid-state lithium batteries with amorphous titanium sulfide electrodes prepared by mechanical milling. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2697-2701 | 2.6 | 18 |
| 141 | Characterization of Li2SP2SSI u composite electrode for all-solid-state lithium secondary batteries. <i>Journal of Materials Science</i> , 2010 , 45, 377-381 | 4.3 | 18 |
| 140 | Growth mechanism of large monodispersed silica particles prepared from tetraethoxysilane in the presence of sodium dodecyl sulfate. <i>Journal of Sol-Gel Science and Technology</i> , 1997 , 9, 25-31 | 2.3 | 18 |
| 139 | Lowering of Preparation Temperatures of Anatase Nanocrystals-Dispersed Coatings via Sol G el Process with Hot Water Treatment. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1421-1426 | 3.8 | 18 |
| 138 | Heat-treatment effect of dispersed particles on the preparation of thick silica films by using electrophoretic sol-gel deposition. <i>Journal of Materials Science</i> , 1996 , 31, 6529-6533 | 4.3 | 18 |
| 137 | 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 | 18 |
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