

Atsunori Matsuda

List of Publications by Year in descending order

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383
papers

9,605
citations

50244

46
h-index

62565

80
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385
all docs

385
docs citations

385
times ranked

7332
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic/Superhydrophilic Micropatterning on Flowerlike Alumina Coating Film by the Sol-Gel Method. <i>Chemistry of Materials</i> , 2000, 12, 590-592.	3.2	453
2	Heteroatom doped graphene engineering for energy storage and conversion. <i>Materials Today</i> , 2020, 39, 47-65.	8.3	400
3	Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries. <i>Progress in Energy and Combustion Science</i> , 2019, 75, 100786.	15.8	379
4	A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives. <i>Nano Research</i> , 2019, 12, 2655-2694.	5.8	283
5	Recent progress on carbon-based composite materials for microwave electromagnetic interference shielding. <i>Carbon</i> , 2021, 177, 304-331.	5.4	239
6	Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. <i>Nature Reviews Chemistry</i> , 2019, 3, 189-198.	13.8	238
7	An overview of recent progress in nanostructured carbon-based supercapacitor electrodes: From zero to bi-dimensional materials. <i>Carbon</i> , 2022, 193, 298-338.	5.4	168
8	Transparent Anatase Nanocomposite Films by the Sol-Gel Process at Low Temperatures. <i>Journal of the American Ceramic Society</i> , 2000, 83, 229-31.	1.9	150
9	Homogeneous reduced graphene oxide supported NiO-MnO ₂ ternary hybrids for electrode material with improved capacitive performance. <i>Electrochimica Acta</i> , 2019, 303, 246-256.	2.6	140
10	Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor. <i>Journal of Energy Storage</i> , 2021, 40, 102724.	3.9	137
11	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 705-708.	1.1	134
12	Mechanisms of removal of heavy metal ions by ZnO particles. <i>Heliyon</i> , 2019, 5, e01440.	1.4	131
13	Laser processing of graphene and related materials for energy storage: State of the art and future prospects. <i>Progress in Energy and Combustion Science</i> , 2022, 91, 100981.	15.8	124
14	Honeycomb-like open-edged reduced-graphene-oxide-enclosed transition metal oxides (NiO/Co ₃ O ₄) as improved electrode materials for high-performance supercapacitor. <i>Journal of Energy Storage</i> , 2020, 30, 101539.	3.9	112
15	Proton conductivity and structure of phosphosilicate gels derived from tetraethoxysilane and phosphoric acid or triethylphosphate. <i>Solid State Ionics</i> , 2001, 139, 113-119.	1.3	108
16	Microwave-assisted synthesis of Mn ₃ O ₄ -Fe ₂ O ₃ /Fe ₃ O ₄ @rGO ternary hybrids and electrochemical performance for supercapacitor electrode. <i>Diamond and Related Materials</i> , 2020, 101, 107622.	1.8	102
17	Synthesis of plate-like Li ₃ PS ₄ solid electrolyte via liquid-phase shaking for all-solid-state lithium batteries. <i>Ionics</i> , 2017, 23, 2061-2067.	1.2	96
18	Preparation of Li ₃ PS ₄ solid electrolyte using ethyl acetate as synthetic medium. <i>Solid State Ionics</i> , 2016, 288, 240-243.	1.3	95

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19	Nitrogen-Sulfur Co-Doped Reduced Graphene Oxide-Nickel Oxide Nanoparticle Composites for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2019, 2, 4626-4636.	2.4	94
20	Facile in-situ simultaneous electrochemical reduction and deposition of reduced graphene oxide embedded palladium nanoparticles as high performance electrode materials for supercapacitor with excellent rate capability. <i>Electrochimica Acta</i> , 2019, 314, 124-134.	2.6	93
21	Facile and fast microwave-assisted formation of reduced graphene oxide-wrapped manganese cobaltite ternary hybrids as improved supercapacitor electrode material. <i>Applied Surface Science</i> , 2019, 481, 296-306.	3.1	86
22	Medium temperature range characterization as a proton conductor for phosphosilicate dry gels containing large amounts of phosphorus. <i>Electrochimica Acta</i> , 2001, 47, 939-944.	2.6	85
23	Fabrication and electrochemical evaluation of micro-supercapacitors prepared by direct laser writing on free-standing graphite oxide paper. <i>Energy</i> , 2019, 179, 676-684.	4.5	82
24	Inorganic-organic composite electrolytes consisting of polybenzimidazole and Cs-substituted heteropoly acids and their application for medium temperature fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 6359.	6.7	77
25	Proton conductivities of sol-gel derived phosphosilicate gels in medium temperature range with low humidity. <i>Solid State Ionics</i> , 2002, 154-155, 687-692.	1.3	76
26	Liquid-phase synthesis of Li ₆ PS ₅ Br using ultrasonication and application to cathode composite electrodes in all-solid-state batteries. <i>Ceramics International</i> , 2018, 44, 742-746.	2.3	75
27	Hydrogen gas sensing properties of microwave-assisted 2D Hybrid Pd/rGO: Effect of temperature, humidity and UV illumination. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7653-7665.	3.8	71
28	Tunable UV-Responsive Organic-Inorganic Hybrid Capsules. <i>Chemistry of Materials</i> , 2009, 21, 195-197.	3.2	70
29	Chemical synthesis of Li ₃ PS ₄ precursor suspension by liquid-phase shaking. <i>Solid State Ionics</i> , 2016, 285, 2-5.	1.3	69
30	Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 570-619.	6.8	68
31	Nanocomposite matrix conjugated with carbon nanomaterials for photocatalytic wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 410, 124657.	6.5	66
32	A review on plasmonic nanoparticle-semiconductor photocatalysts for water splitting. <i>Journal of Cleaner Production</i> , 2021, 294, 126200.	4.6	65
33	Fine Patterning and Characterization of Gel Films Derived from Methyltriethoxysilane and Tetraethoxysilane. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2849-2852.	1.9	64
34	Fine-patterning on glass substrates by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 1988, 100, 501-505.	1.5	62
35	Structural Changes of Sol-Gel-Derived TiO ₂ -SiO ₂ Coatings in an Environment of High Temperature and High Humidity. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2899-2903.	1.9	59
36	Elaboration and characterization of sol-gel derived ZrO ₂ thin films treated with hot water. <i>Applied Surface Science</i> , 2012, 258, 5250-5258.	3.1	59

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37	Electrochemical deposition of uniform and porous Co-Ni layered double hydroxide nanosheets on nickel foam for supercapacitor electrode with improved electrochemical efficiency. <i>Journal of Energy Storage</i> , 2022, 50, 104638.	3.9	59
38	Formation of Anatase Nanocrystals in Sol-Gel Derived TiO ₂ -SiO ₂ Thin Films with Hot Water Treatment. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 585-588.	1.1	58
39	Preparation of Transparent Thick Films by Electrophoretic Sol-Gel Deposition Using Phenyltriethoxysilane-Derived Particles. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2501-2503.	1.9	58
40	Preparation of Proton-Conductive Inorganic-Organic Hybrid Films from 3-Glycidoxypropyltrimethoxysilane and Orthophosphoric Acid. <i>Chemistry of Materials</i> , 2003, 15, 1910-1912.	3.2	57
41	Systematic characterization of the effect of Ag@TiO ₂ nanoparticles on the performance of plasmonic dye-sensitized solar cells. <i>Scientific Reports</i> , 2017, 7, 15690.	1.6	54
42	Fabrication of biosensor based on Chitosan-ZnO/Polypyrrole nanocomposite modified carbon paste electrode for electroanalytical application. <i>Materials Science and Engineering C</i> , 2017, 80, 494-501.	3.8	53
43	Anatase nanocrystal-dispersed thin films via sol-gel 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.	6.7	51
44	Synthesis of mesoporous Co(OH) ₂ nanostructure film via electrochemical deposition using lyotropic liquid crystal template as improved electrode materials for supercapacitors application. <i>Journal of Electroanalytical Chemistry</i> , 2020, 857, 113728.	1.9	51
45	Recent advances in waste-recycled nanomaterials for biomedical applications: Waste-to-wealth. <i>Nanotechnology Reviews</i> , 2021, 10, 1662-1739.	2.6	50
46	Electric double-layer capacitor using composites composed of phosphoric acid-doped silica gel and styrene-ethylene-butylene-styrene elastomer as a solid electrolyte. <i>Journal of Power Sources</i> , 1999, 77, 12-16.	4.0	49
47	Superior performance of Ni(OH) ₂ -ErGO@ NF electrode materials as pseudocapacitance using electrochemical deposition via two simple successive steps. <i>Journal of Energy Storage</i> , 2020, 30, 101485.	3.9	49
48	Effect of UV-Irradiation on Polyelectrolyte Multilayered Films and Hollow Capsules Prepared by Layer-by-Layer Assembly. <i>Macromolecules</i> , 2006, 39, 8067-8074.	2.2	48
49	Carbon-dot-loaded Co _x Ni _{1-x} Fe ₂ O ₄ ; x=0.9/SiO ₂ /TiO ₂ nanocomposite with enhanced photocatalytic and antimicrobial potential: An engineered nanocomposite for wastewater treatment. <i>Scientific Reports</i> , 2020, 10, 11534.	1.6	48
50	One-pot synthesis of reduced graphene oxide nanosheets anchored ZnO nanoparticles via microwave approach for electrochemical performance as supercapacitor electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15456-15465.	1.1	47
51	Effects of Addition of Poly(ethylene glycol) on the Formation of Anatase Nanocrystals in SiO ₂ -TiO ₂ Gel Films with Hot Water Treatment. <i>Chemistry of Materials</i> , 2001, 13, 2144-2149.	3.2	46
52	Thermal Softening Behavior and Application to Transparent Thick Films of Poly(benzylsilsesquioxane) Particles Prepared by the Sol-Gel Process. <i>Journal of the American Ceramic Society</i> , 2001, 84, 775-780.	1.9	45
53	<i>In situ</i> growth of laser-induced graphene micro-patterns on arbitrary substrates. <i>Nanoscale</i> , 2022, 14, 8914-8918.	2.8	44
54	Preparation of Super-Water-Repellent Alumina Coating Film with High Transparency on Poly(ethylene) Tj ETQqO O 0,rgBT /Overlock 10 Tj	0.7	43

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55	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 27, 61-69.	1.1	42
56	Metal chalcogenide-based photoelectrodes for photoelectrochemical water splitting. Journal of Energy Chemistry, 2022, 73, 189-213.	7.1	40
57	Proton Conduction in Thickness-Controlled Ultrathin Polycation/Nafion Multilayers Prepared via Layer-by-Layer Assembly. Chemistry of Materials, 2008, 20, 6405-6409.	3.2	39
58	Synthesis and characterization of polydimethylsiloxane-cyanopropyltriethoxysilane-derived hybrid coating for stir bar sorptive extraction. Journal of Sol-Gel Science and Technology, 2011, 59, 128-134.	1.1	39
59	Anti-reflective properties of nano-structured alumina thin films on poly(methyl methacrylate) substrates by the sol-gel process with hot water treatment. Thin Solid Films, 2008, 516, 4526-4529.	0.8	37
60	Sensing of silver ions by nanotubular polyaniline film deposited on quartz-crystal in a microbalance. Synthetic Metals, 2010, 160, 42-46.	2.1	37
61	One-pot liquid phase synthesis of (100 \times)Li ₃ PS ₄ -LiI solid electrolytes. Journal of Power Sources, 2017, 365, 7-11.	4.0	37
62	Low-temperature crystallization of TiO ₂ nanotube arrays via hot water treatment and their photocatalytic properties under visible-light irradiation. Materials Chemistry and Physics, 2013, 137, 991-998.	2.0	36
63	Fast synthesis of Li ₂ S-P ₂ S ₅ -LiI solid electrolyte precursors. Inorganic Chemistry Frontiers, 2017, 4, 1660-1664.	3.0	36
64	Nanomaterial Fabrication through the Modification of Sol-Gel Derived Coatings. Nanomaterials, 2021, 11, 181.	1.9	36
65	Coating Films of 20B ₂ O ₃ .80SiO ₂ by the Sol-Gel Method. Journal of the American Ceramic Society, 1987, 70, C-13-C-15.	1.9	35
66	Inorganic-organic hybrid films from 3-glycidoxypropyltrimethoxysilane and orthophosphoric acid for medium temperature fuel cells. Electrochemistry Communications, 2003, 5, 644-646.	2.3	35
67	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.	1.1	35
68	Well-aligned TiO ₂ nanotube arrays for energy-related applications under solar irradiation. Journal of Asian Ceramic Societies, 2013, 1, 203-219.	1.0	35
69	Comparison of structure and proton conductivity of phosphosilicate gels derived from several kinds of phosphorus-containing compounds. Solid State Ionics, 2001, 145, 161-166.	1.3	34
70	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 61-69.	1.1	33
71	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 41-46.	1.1	33
72	Antireflective properties of flowerlike alumina thin films on soda-lime silica glass substrates prepared by the sol-gel method with hot water treatment. Thin Solid Films, 2007, 515, 3914-3917.	0.8	33

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73	Shape-Controlled Metal Nanoparticles and Their Assemblies with Optical Functionalities. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-17.	1.5	33
74	Ag nanoparticle-deposited TiO ₂ nanotube arrays for electrodes of Dye-sensitized solar cells. <i>Nanoscale Research Letters</i> , 2015, 10, 219.	3.1	33
75	Detection of antibiotic Ofloxacin drug in urine using electrochemical sensor based on synergistic effect of different morphological carbon materials. <i>Microchemical Journal</i> , 2019, 146, 170-177.	2.3	33
76	High Ionic Conductivity of Liquid-Phase-Synthesized Li ₃ PS ₄ Solid Electrolyte, Comparable to That Obtained via Ball Milling. <i>ACS Applied Energy Materials</i> , 2021, 4, 2275-2281.	2.5	33
77	Thermal Softening Behavior of Poly(phenylsilsesquioxane) and Poly(benzylsilsesquioxane) Particles.. <i>Journal of the Ceramic Society of Japan</i> , 2000, 108, 830-835.	1.3	32
78	Single-step growth of carbon and potassium-embedded TiO ₂ nanotube arrays for efficient photoelectrochemical hydrogen generation. <i>Electrochimica Acta</i> , 2013, 89, 585-593.	2.6	32
79	Formation of highly crystallized ZnO nanostructures by hot-water treatment of etched Zn foils. <i>Materials Letters</i> , 2013, 91, 111-114.	1.3	32
80	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 517-521.	1.1	31
81	Formation of anti-reflective alumina films on polymer substrates by the sol-gel process with hot water treatment. <i>Surface and Coatings Technology</i> , 2006, 201, 3653-3657.	2.2	31
82	Carbon-incorporated TiO ₂ photoelectrodes prepared via rapid-anodic oxidation for efficient visible-light hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10046-10056.	3.8	31
83	Preparation of Li ₇ P ₂ S ₈ I Solid Electrolyte and Its Application in All-Solid-State Lithium-Ion Batteries with Graphite Anode. <i>Electronic Materials Letters</i> , 2019, 15, 409-414.	1.0	31
84	Direct Formation of Zn ²⁺ /Al Layered Double Hydroxide Films with High Transparency on Glass Substrate by the Sol-Gel Process with Hot Water Treatment. <i>Crystal Growth and Design</i> , 2006, 6, 1726-1729.	1.4	30
85	Synthesis of rutile TiO ₂ nanowires by thermal oxidation of titanium in the presence of KOH and their ability to photoreduce Cr(VI) ions. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152094.	2.8	30
86	Proton Conductive Silica Gels Doped with Several Acids and Their Application to Electric Double-Layer Capacitor. <i>Chemistry Letters</i> , 1998, 27, 1189-1190.	0.7	29
87	Formation and Characterization of Titania Nanosheet-Precipitated Coatings via Sol-Gel Process with Hot Water Treatment under Vibration. <i>Chemistry of Materials</i> , 2005, 17, 749-757.	3.2	29
88	Sulfur-Carbon Nano Fiber Composite Solid Electrolyte for All-Solid-State Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 1569-1573.	2.5	29
89	Utilization of glass paper as a support of proton conductive inorganic-organic hybrid membranes based on 3-glycidoxypropyltrimethoxysilane. <i>Electrochemistry Communications</i> , 2005, 7, 245-248.	2.3	28
90	Photoluminescence properties of rod-like Ce-doped ZnO nanostructured films formed by hot-water treatment of sol-gel derived coating. <i>Optical Materials</i> , 2013, 35, 1902-1907.	1.7	28

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91	Hard template synthesis of metal nanowires. <i>Frontiers in Chemistry</i> , 2014, 2, 104.	1.8	28
92	Effects of Substituting S with Cl on the Structural and Electrochemical Characteristics of Na ₃ Sb ₄ Solid Electrolytes. <i>ACS Applied Energy Materials</i> , 2021, 4, 6125-6134.	2.5	28
93	Formation of TiO ₂ (B) Nanocrystallites in Sol-Gel-Derived SiO ₂ -TiO ₂ Film. <i>Journal of the American Ceramic Society</i> , 1999, 82, 3248-3250.	1.9	26
94	Formation and stabilization of tetragonal phase in sol-gel derived ZrO ₂ treated with base-hot-water. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 173, 99-104.	1.7	26
95	Electricity producing property and bacterial community structure in microbial fuel cell equipped with membrane electrode assembly. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 106-113.	1.1	25
96	Comparison of electrochemical and microbiological characterization of microbial fuel cells equipped with SPEEK and Nafion membrane electrode assemblies. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 322-328.	1.1	25
97	Ag nanoparticle-filled TiO ₂ nanotube arrays prepared by anodization and electrophoretic deposition for dye-sensitized solar cells. <i>Nanotechnology</i> , 2017, 28, 135207.	1.3	25
98	Micro- and Nano-assembly of Composite Particles by Electrostatic Adsorption. <i>Nanoscale Research Letters</i> , 2019, 14, 297.	3.1	25
99	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2001, 20, 129-134.	1.1	24
100	Medium temperature operation of fuel cells using inorganic-organic hybrid films from 3-glycidoxypropyltrimethoxysilane and orthophosphoric acid. <i>Electrochimica Acta</i> , 2004, 50, 705-708.	2.6	24
101	Hot-water treatment of sol-gel derived SiO ₂ -TiO ₂ microparticles and application to electrophoretic deposition for thick films. <i>Journal of Materials Science</i> , 2006, 41, 8101-8108.	1.7	24
102	High surface area BaZrO ₃ photocatalyst prepared by base-hot-water treatment. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2699-2705.	2.8	24
103	TiO ₂ nanotube arrays formation in fluoride/ethylene glycol electrolyte containing LiOH or KOH as photoanode for dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 343, 33-39.	2.0	23
104	Synthesis of Plasmonic Photocatalysts for Water Splitting. <i>Catalysts</i> , 2019, 9, 982.	1.6	23
105	Weathering resistance of glass plates coated with sol-gel derived 9TiO ₂ -91SiO ₂ films. <i>Journal of Materials Science Letters</i> , 1989, 8, 902-904.	0.5	22
106	Physical and Chemical Properties of Titania-Silica Films Derived from Poly(ethylene glycol)-Containing Gels. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2217-2221.	1.9	22
107	Phosphosilicate Gels as a Solid State Proton Conductor at Medium Temperature and Low Humidity.. <i>Journal of the Ceramic Society of Japan</i> , 2002, 110, 131-134.	1.3	22
108	Photocatalytic Micropatterning of Transparent Ethylsilsesquioxane-Titania Hybrid Films. <i>Chemistry of Materials</i> , 2002, 14, 2693-2700.	3.2	22

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109	Platelike Crystal Growth of Zn-Al Layered Double Hydroxide by Hot Water Treatment of Sol-Gel Derived Al ₂ O ₃ -ZnO Films on Glass Substrate. <i>Chemistry Letters</i> , 2006, 35, 174-175.	0.7	22
110	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. <i>ACS Omega</i> , 2020, 5, 26287-26294.	1.6	22
111	Sunlight activated anodic freestanding ZrO ₂ nanotube arrays for Cr(VI) photoreduction. <i>Nanotechnology</i> , 2018, 29, 375701.	1.3	21
112	Fabrication of an all-solid-state Zn-air battery using electroplated Zn on carbon paper and KOH-ZrO ₂ solid electrolyte. <i>Applied Surface Science</i> , 2019, 487, 343-348.	3.1	21
113	Development and fabrication of highly flexible, stretchable, and sensitive strain sensor for long durability based on silver nanoparticles-polydimethylsiloxane composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11897-11910.	1.1	21
114	Improvement of lithium ionic conductivity of Li ₃ PS ₄ through suppression of crystallization using low-boiling-point solvent in liquid-phase synthesis. <i>Solid State Ionics</i> , 2021, 361, 115568.	1.3	21
115	Proton conductivity at medium temperature range and chemical durability of phosphosilicate gels added with a third component. <i>Solid State Ionics</i> , 2003, 162-163, 253-259.	1.3	20
116	PMMA-ITO Composite Formation via Electrostatic Assembly Method for Infra-Red Filtering. <i>Nanomaterials</i> , 2019, 9, 886.	1.9	20
117	High ionic conductivity of multivalent cation doped Li ₆ PS ₅ Cl solid electrolytes synthesized by mechanical milling. <i>RSC Advances</i> , 2020, 10, 22304-22310.	1.7	20
118	Preparation and characterization of thermally stable proton-conducting composite sheets composed of phosphosilicate gel and polyimide. <i>Solid State Ionics</i> , 2003, 162-163, 247-252.	1.3	19
119	Medium temperature operation of fuel cells using thermally stable proton-conducting composite sheets composed of phosphosilicate gel and polyimide. <i>Journal of Power Sources</i> , 2004, 138, 51-55.	4.0	19
120	Mechanochemically synthesized cesium-ion-substituted phosphotungstic acid using several types of cesium-containing salts. <i>Solid State Ionics</i> , 2008, 179, 1174-1177.	1.3	19
121	AgBr nanocrystal-dispersed silsesquioxane-titania hybrid films for holographic materials. <i>Materials Letters</i> , 2010, 64, 2648-2651.	1.3	19
122	Synthesis of ZnO nanorod-nanosheet composite via facile hydrothermal method and their photocatalytic activities under visible-light irradiation. <i>Journal of Solid State Chemistry</i> , 2014, 211, 146-153.	1.4	19
123	Rapid nanosheets and nanowires formation by thermal oxidation of iron in water vapour and their applications as Cr(VI) adsorbent. <i>Applied Surface Science</i> , 2016, 380, 172-177.	3.1	19
124	Effect of Synthesis Methods on Methanol Oxidation Reaction on Reduced Graphene Oxide Supported Palladium Electrocatalysts. <i>Procedia Engineering</i> , 2017, 184, 587-594.	1.2	19
125	Nanotube array-based barium titanate-cobalt ferrite composite film for affordable magnetoelectric multiferroics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10066-10072.	2.7	19
126	Multiphase Na ₃ SbS ₄ with high ionic conductivity. <i>Materials Today Energy</i> , 2019, 13, 45-49.	2.5	19

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127	Mechanical Properties of Sulfide-Type Solid Electrolytes Analyzed by Indentation Methods. ACS Applied Energy Materials, 2022, 5, 2349-2355.	2.5	19
128	Changes in Physical Properties and Structure of Sol-Gel Derived SiO ₂ Films in an Environment of High Temperature and High Humidity. Journal of the Ceramic Society of Japan, 1994, 102, 330-335.	1.3	18
129	Preparation of Copolymerized Phenylsilsesquioxane-Benzylsilsesquioxane Particles. Journal of Sol-Gel Science and Technology, 2002, 23, 247-252.	1.1	18
130	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.	1.9	18
131	Anhydrous proton conductivity of KHSO ₄ /H ₃ PW ₁₂ O ₄₀ composites and the correlation with hydrogen bonding distance under ambient pressure. Electrochimica Acta, 2011, 56, 9364-9369.	2.6	18
132	Fe ₃ O ₄ -embedded rGO composites as anode for rechargeable FeOx-air batteries. Materials Today Communications, 2020, 25, 101540.	0.9	18
133	Morphology and optical properties of ZnO nanorods coupled with metal oxides of various bandgaps by photo-oxidation. Journal of Luminescence, 2021, 229, 117649.	1.5	18
134	Influence of Ce ³⁺ Substitution on Antimicrobial and Antibiofilm Properties of Zn _{Ce} Fe _{2-x} O ₄ Nanoparticles (X = 0.0, 0.02, 0.04, 0.06, and 0.08) Conjugated with Ebselen and Its Role Subsidised with β -Radiation in Mitigating Human TNBC and Colorectal Adenocarcinoma Proliferation In Vitro. International Journal of Molecular Sciences, 2021, 22, 10171.	1.8	18
135	Performance of a silver nanoparticles-based polydimethylsiloxane composite strain sensor produced using different fabrication methods. Sensors and Actuators A: Physical, 2021, 329, 112793.	2.0	18
136	Micropatterning on Methylsilsesquioxane/Phenylsilsesquioxane Thick Films by the Sol-Gel Method. Journal of the American Ceramic Society, 2000, 83, 3211-3213.	1.9	17
137	Sol-Gel Derived Porous Silica Gels Impregnated with Sulfuric Acid. Journal of the Electrochemical Society, 2002, 149, E292.	1.3	17
138	Utilization of glass papers as a support for proton conducting inorganic/organic hybrid membranes from 3-glycidoxypropyltrimethoxysilane, tetraalkoxysilane and orthophosphoric acid. Solid State Ionics, 2005, 176, 3001-3004.	1.3	17
139	Facile formation of Fe ₃ O ₄ -particles decorated carbon paper and its application for all-solid-state rechargeable Fe-air battery. Applied Surface Science, 2019, 486, 257-264.	3.1	17
140	All solid-state nickel/metal hydride battery with a proton-conductive phosphoric acid-doped silica gel electrolyte. Electrochimica Acta, 2003, 48, 1499-1503.	2.6	16
141	Mechanochemical synthesis of proton conductive cesium hydrogen salts of 12-tungstophosphoric acid and their composites. Solid State Ionics, 2007, 178, 723-727.	1.3	16
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