Manabu Hagiwara

List of Publications by Year
in descending order

66	743	623734	610901
papers	citations	14 h-index	24 g-index

67	67	67	811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum Error Correction Beyond the Bounded Distance Decoding Limit. IEEE Transactions on Information Theory, 2012, 58, 1223-1230.	2.4	80
2	Calcium aluminate silicate Ca2Al2SiO7 single crystal applicable to piezoelectric sensors at high temperature. Applied Physics Letters, 2013, 102, .	3.3	54
3	Grain-size-dependent spontaneous relaxor-to-ferroelectric phase transition in (Bi1/2K1/2)TiO3 ceramics. Applied Physics Letters, 2015, 107, .	3.3	41
4	Relaxor-ferroelectric crossover in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mi) Tj ETQq0 0 0 rgBT /O Physical Review B, 2017, 96, .	3.2	38
5	Grain size effect on phase transition behavior and electrical properties of (Bi_{1/2}K_{1/2})TiO₃piezoelectric ceramics. Japanese Journal of Applied Physics, 2015, 54, 10ND10.	1.5	37
6	Grain size effect on electrical properties of Mn-modified 0.67BiFeO3â€“0.33BaTiO3 lead-free piezoelectric ceramics. Ceramics International, 2016, 42, 8206-8211.	4.8	33
7	Effects of <scp>CuO</scp> Addition on Electrical Properties of 0.6<scp>BiFeO</scp>₃â€“0.4(<scp>Bi</scp>_{0.5}<scp>K</scp>_{0.5})<scp>TiO</scp>₃ Leadâ€Free Piezoelectric Ceramics. Journal of the American Ceramic Society, 2015, 98, 469-475.	3.6	28
8	Size-controlled synthesis of ZIF-8 particles and their pyrolytic conversion into ZnO aggregates as photoanode materials of dye-sensitized solar cells. CrystEngComm, 2017, 19, 2844-2851.	2.6	27
9	Analysis of nonlinear transient responses of piezoelectric resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1721-1729.	3.0	25
10	Growth and Characterization of Ca₂Al₂SiO₇ Piezoelectric Single Crystals for High-Temperature Sensor Applications. Japanese Journal of Applied Physics, 2013, 52, 09KD03.	1.5	25
11	(Bi1/2K1/2)TiO3â€“SrTiO3 solid-solution ceramics for high-temperature capacitor applications. Ceramics International, 2020, 46, 10242-10249.	4.8	22
12	Fabrication of dense (Bi1/2K1/2)TiO3 ceramics using hydrothermally derived fine powders. Journal of Materials Science, 2015, 50, 5970-5977.	3.7	17
13	Fluorochromic Properties of Undoped and Ln³⁺-Doped CaWO₄Phosphor Particles. ECS Journal of Solid State Science and Technology, 2018, 7, R50-R56.	1.8	16
14	Fabrication of layered hydroxide zinc nitrate films and their conversion to ZnO nanosheet assemblies for use in dye-sensitized solar cells. Journal of Asian Ceramic Societies, 2015, 3, 144-150.	2.3	15
15	Solvent-assisted microstructural evolution and enhanced performance of porous ZnO films for plastic dye-sensitized solar cells. Journal of Power Sources, 2017, 342, 148-156.	7.8	13
16	A biphasic solâ€“gel route to synthesize anatase TiO₂particles under controlled conditions and their DSSC application. Journal of Asian Ceramic Societies, 2017, 5, 427-435.	2.3	13
17	Fabrication of highly textured Ca3Co4O9 ceramics with controlled density and high thermoelectric power factors. Journal of the European Ceramic Society, 2020, 40, 1338-1343.	5.7	13
18	Fabrication of Transparent ZnO Thick Film with Unusual Orientation by the Chemical Bath Deposition. Crystal Growth and Design, 2015, 15, 3150-3156.	3.0	12

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19	Defects and microstructure of a hydrothermally derived (Bi1/2K1/2)TiO3 powder. Journal of Asian Ceramic Societies, 2017, 5, 31-35.	2.3	12
20	Synthesis of hollow and aggregated CeO2:Sm3+ microspheres and their redox-responsive luminescence. Journal of Alloys and Compounds, 2019, 787, 1074-1081.	5.5	12
21	Luminescence Sensing of Redox States Using CeO₂:Sm³⁺Phosphor Thin Films. ECS Journal of Solid State Science and Technology, 2014, 3, R109-R114.	1.8	11
22	Reactive Templated Grain Growth and Thermoelectric Power Factor Enhancement of Textured CuFeO₂ Ceramics. ACS Applied Energy Materials, 2020, 3, 1979-1987.	5.1	11
23	Nonlinear Shear Responses of Lead Zirconate Titanate Piezoelectric Ceramics. Japanese Journal of Applied Physics, 2010, 49, 09MD04.	1.5	10
24	Liquid-Phase Synthesis of Ba₂V₂O₇ Phosphor Powders and Films Using Immiscible Biphasic Organicâ€“Aqueous Systems. Inorganic Chemistry, 2016, 55, 7879-7885.	4.0	10
25	Effect of thermal history on stability of the relaxor state in (Bi_{1/2}K_{1/2})TiO₃ceramics. Japanese Journal of Applied Physics, 2017, 56, 10PC03.	1.5	10
26	Effect of particle size and morphology on the performance of BiFeO₃â€“PDMS piezoelectric generators. CrystEngComm, 2020, 22, 2919-2925.	2.6	10
27	Synthesis of blue-luminescent CaNb₂O₆ by using a biphasic liquid method at low temperatures. Journal of the Ceramic Society of Japan, 2014, 122, 12-16.	1.1	9
28	Biphasic Solâ€“Gel Synthesis of Microstructured/Nanostructured YVO₄:Eu³⁺ Materials and Their H₂O₂ Sensing Ability. ACS Omega, 2019, 4, 20353-20361.	3.5	9
29	Room-temperature fabrication of nanocrystalline CePO₄:Tb³⁺ films by SILAR method and their luminescence-switching properties. Journal of the Ceramic Society of Japan, 2016, 124, 37-41.	1.1	8
30	Fabrication of bismuth silicate Bi2SiO5 ceramics as a potential high-temperature dielectric material. Journal of Materials Science, 2021, 56, 8415-8426.	3.7	8
31	(Bi_{1/2}K_{1/2})TiO₃ lead-free ferroelectric ceramics: processing, properties, and compositional modifications. Journal of the Ceramic Society of Japan, 2021, 129, 496-503.	1.1	8
32	Physically based DC lifetime model for lead zirconate titanate films. Applied Physics Letters, 2017, 111, .	3.3	7
33	Comparative hydrothermal synthesis of CeO₂ crystals for use in light-scattering layers of dye-sensitized solar cells. CrystEngComm, 2021, 23, 1415-1422.	2.6	7
34	Identicalness between Piezoelectric Loss and Dielectric Loss in Converse Effect of Piezoelectric Ceramic Resonators. Japanese Journal of Applied Physics, 2012, 51, 09LD10.	1.5	7
35	Chemical bath deposition of transparent ZnO films incorporated with erythrosine B molecules and their synergetic electro/photochromic properties. CrystEngComm, 2020, 22, 2447-2453.	2.6	6
36	Controlled 90Â° domain wall motion in BaTiO3 piezoelectric ceramics modified with acceptor ions localized near grain boundaries. SN Applied Sciences, 2019, 1, 1.	2.9	5

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37	Synthesis of Pt-Loaded Y₂WO₆:Eu³⁺ Microspheres and Their Hydrogen-Sensitive Turn-Off Luminescence. ACS Omega, 2020, 5, 6697-6704.	3.5	5
38	Identicalness between Piezoelectric Loss and Dielectric Loss in Converse Effect of Piezoelectric Ceramic Resonators. Japanese Journal of Applied Physics, 2012, 51, 09LD10.	1.5	4
39	Fabrication of luminescence-sensing films based on surface precipitation reaction of Mgâ€“Alâ€“Eu LDHs. Journal of Sol-Gel Science and Technology, 2017, 82, 380-389.	2.4	4
40	Hydrothermal synthesis of lead-free perovskite (Bi_{1/2}K_{1/2})(Zr<i>_x</i>Ti<sub>1 powders. Journal of the Ceramic Society of Japan, 2017, 125, 454-457.		4
41	A novel synthesis method of delafossite-type CuYO₂ using a layered yttrium hydroxide as an yttrium source. Journal of the Ceramic Society of Japan, 2018, 126, 286-291.	1.1	4
42	Structural improvement of ZnO electrodes through solution-processed routes for enhancing open-circuit voltage in dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2018, 22, 3119-3127.	2.5	4
43	Hydrothermal synthesis of monodispersed CePO4:Tb3+ porous microspheres and their redox-responsive luminescence. SN Applied Sciences, 2019, 1, 1.	2.9	4
44	Ferroelectric and piezoelectric properties of (Bi1/2K1/2)(Zr Ti1â˜)O3 lead-free ceramics. Materials Letters, 2020, 271, 127776.	2.6	4
45	Ti doping and low-temperature sintering of BiFeO3 nanoparticles synthesized by the solvothermal method. Ceramics International, 2022, 48, 32723-32729.	4.8	4
46	Nonlinear Shear Response in (K,Na)NbO₃-Based Lead-Free Piezoelectric Ceramics. Key Engineering Materials, 2010, 445, 47-50.	0.4	3
47	Analysis of vibration waveforms of electromechanical response to determine piezoelectric and electrostrictive coefficients. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1632-1638.	3.0	3
48	Effect of orientation and density of hydroxide precursor films on performance of dye-sensitized ZnO solar cells. Journal of the Ceramic Society of Japan, 2016, 124, 673-677.	1.1	3
49	Fabrication of Luminescent Antireflective Coatings with CaMoO4:Eu3+/Ag Composite Structure. Coatings, 2017, 7, 74.	2.6	3
50	Chemical solution deposition of magnetoelectric ZnOâ€“La2CoMnO6 nanocomposite thin films using a single precursor solution. Materials Chemistry and Physics, 2019, 236, 121762.	4.0	3
51	Fabrication of transparent conductive zinc oxide films by chemical bath deposition using solutions containing Zn²⁺ and Al³⁺ ions. Journal of the Ceramic Society of Japan, 2015, 123, 329-334.	1.1	2
52	Fabrication and Refractive Index Control of Transparent and Luminescent HfO₂:Ln³⁺ (Ln³⁺ = Eu³⁺, Tb³⁺) Thin Films for Enhanced Surface Emissions. ECS Journal of Solid State Science and Technology, 2019, 8, R169-R175.	1.8	2
53	Synthesis of Caâ€“Co hydroxides and their use in facile fabrication of textured Ca CoO2 thermoelectric ceramics. Ceramics International, 2019, 45, 3600-3607.	4.8	2
54	Fabrication of highly (1 1 1)-oriented Cu2O films on glass substrates by repeated chemical bath deposition. Journal of Crystal Growth, 2020, 551, 125920.	1.5	2

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55	Effects of dual lanthanide ions doping on optical and electrical properties of barium stannate with Ba1â€“â€“La Sm SnO3 compositions. Journal of Alloys and Compounds, 2021, 861, 158566.	5.5	2
56	Effect of micro-/mesoporous structures on H₂O₂ sensing ability of YVO₄:Eu³⁺ phosphor particles. Journal of the Ceramic Society of Japan, 2020, 128, 532-538.	1.1	2
57	Ni-doping effect on thermoelectric properties of c-axis-oriented CuFeO2 ceramics. Journal of Alloys and Compounds, 2022, 905, 164192.	5.5	2
58	Effect of dual doping by rare-earth and sodium ions on thermoelectric properties of CaMnO₃ ceramics. Journal of the Ceramic Society of Japan, 2022, 130, 403-409.	1.1	2
59	Domain Contribution to Elastic Nonlinearity in Pb(Zr, Ti)O₃-Based Piezoelectric Ceramics. Key Engineering Materials, 0, 582, 3-6.	0.4	1
60	Hydrothermal growth of c-axis oriented ferroelectric (Bi1/2K1/2)TiO3 films on metal substrates. Thin Solid Films, 2020, 713, 138342.	1.8	1
61	A large piezoelectric voltage coefficient in aluminate-sodalite-type improper ferroelectric oxides. Journal of Materials Chemistry C, 0, , .	5.5	1
62	Fabrication of meso- and macro-porous Y2WO6:Eu3+ phosphor thin films by Pechini-type solâ€“gel dip-coating method and their characteristic optical properties. Journal of Sol-Gel Science and Technology, 2021, 100, 232-243.	2.4	1
63	Grain-size-insensitive dielectric properties of Sr0.6Ba0.4Nb2O6 relaxor ferroelectric ceramics with tetragonal tungsten bronze structure. Ceramics International, 2022, 48, 6819-6825.	4.8	1
64	Fabrication of mesostructured Y2O3:Eu3+ materials from metalâ€“organic frameworks and their H2O2-sensitive turn-off luminescence. Optical Materials, 2021, 116, 111111.	3.6	0
65	Fabrication of p-type semiconducting NiCo₂O₄ thin films using hydroxide nanoplatelet precursors and their application to N749-sensitized photocathodes. Journal of the Ceramic Society of Japan, 2021, 129, 348-354.	1.1	0
66	Redox-induced dual optical switching of CaTiO3:Pr3+ phosphor nanoparticles synthesized by solâ€“gel method. Journal of Sol-Gel Science and Technology, 0, , .	2.4	0