

Kenjiro Fujimoto

List of Publications by Year in descending order

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93
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990
citing authors

#	ARTICLE	IF	CITATIONS
1	Tbit/inch ² ferroelectric data storage based on scanning nonlinear dielectric microscopy. Applied Physics Letters, 2002, 81, 4401-4403.	3.3	186
2	Elastocaloric effect in CuAlZn and CuAlMn shape memory alloys under compression. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150309.	3.4	50
3	Reductive decomposition of nitrate ion to nitrogen in water on a unique hollandite photocatalyst. Applied Catalysis B: Environmental, 1999, 23, 283-289.	20.2	46
4	On the LiNi _{0.2} Mn _{0.2} Co _{0.6} O ₂ positive electrode material. Journal of Power Sources, 2010, 195, 1510-1515.	7.8	33
5	Combinatorial approach for powder preparation of pseudo-ternary system LiO _{0.5} XTiO ₂ (X: Fe _{0.15}) Tj ETQq _{1,1} 0.784314 rgBT / 6.1 30	6.1	30
6	Influence of oxygen gas concentration on hydrogen sensing of Pt/WO ₃ thin film prepared by sol-gel process. Sensors and Actuators B: Chemical, 2015, 216, 394-401.	7.8	28
7	Sol-gel preparation of Li ⁺ ion conductive thin film. Applied Surface Science, 2002, 189, 300-306.	6.1	25
8	Proton Distribution and Dynamics in Y- and Zn-Doped BaZrO ₃ . Journal of Physical Chemistry C, 2014, 118, 18846-18852.	3.1	24
9	Combinatorial electrode array for high-throughput evaluation of combinatorial library for electrode materials. Applied Surface Science, 2004, 223, 210-213.	6.1	23
10	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 19, 505-510.	2.4	18
11	Li _x Co _{0.4} Ni _{0.3} Mn _{0.3} O ₂ electrode materials: Electrochemical and structural studies. Materials Research Bulletin, 2012, 47, 1936-1941.	5.2	18
12	Fabrication of well-isolated graphene and evaluation of thermoelectric performance of polyaniline-graphene composite film. Journal of Materials Science, 2019, 54, 3904-3913.	3.7	18
13	Preparation of Highly Crystallized Strontium Titanate Powders at Room Temperature. Journal of the American Ceramic Society, 2015, 98, 3054-3061.	3.8	17
14	Title is missing!. Journal of Materials Synthesis and Processing, 1998, 6, 329-333.	0.3	15
15	Combinatorial Synthesis of Epitaxial LiCoO ₂ Thin Films on SrTiO ₃ (001) via On-Substrate Sintering of Li ₂ CO ₃ and CoO by Pulsed Laser Deposition. ACS Combinatorial Science, 2016, 18, 343-348.	3.8	15
16	Influence of temperature and humidity on the electrical sensing of Pt/WO ₃ thin film hydrogen gas sensor. Journal of the Ceramic Society of Japan, 2016, 124, 629-633.	1.1	15
17	Preparation of hollandite-type K _x GaxSn ₈ xO ₁₆ thin film and NO adsorption behavior. Solid State Ionics, 2002, 152-153, 769-775.	2.7	14
18	Ethanol Gas Sensing by a Zn-Terminated ZnO(0001) Bulk Single-Crystalline Substrate. ACS Omega, 2020, 5, 21104-21112.	3.5	14

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19	Preparation of pseudo-ternary library by combinatorial robot system based on wet and dry processes. <i>Measurement Science and Technology</i> , 2005, 16, 41-45.	2.6	13
20	Thermoelectric properties of Sb-doped Mg ₂ (Si _{0.95} Ge _{0.05}) synthesized by spark plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 195, 45-49.	3.5	13
21	Development of an Automatic, High-Throughput Structural Refinement Method Using Rietveld Analysis. <i>ACS Combinatorial Science</i> , 2020, 22, 35-41.	3.8	13
22	Synthesis of hollandite-type K _x Ga _x Sn _{8-2x} O ₁₆ fine particles by the sol-gel method. <i>Journal of Materials Research</i> , 1998, 13, 926-929.	2.6	12
23	Photocatalytic Reduction of NO with C ₂ H ₆ on a Hollandite-Type Catalyst. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 775-778.	2.4	12
24	Construction of Multilayer Films and Superlattice- and Mosaic-like Heterostructures of 2D Metal Oxide Nanosheets via a Facile Spin-Coating Process. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43258-43265.	8.0	12
25	Afterglow Properties and Trap-Depth Control in ZrO ₂ :Ti, (xM ₂) _{1-x} Ti _{1-x} O ₃ Systems. <i>Journal of Applied Physics</i> , 2018, 124, 164301.	4.0	11
26	Fabrication and Mechanical Properties of Textured Ti ₃ SiC ₂ Systems Using Commercial Powder. <i>Materials Transactions</i> , 2018, 59, 829-834.	1.2	10
27	Exploration of layered-type pseudo four-component Li ⁺ Ni ²⁺ Co ²⁺ Ti oxides. <i>Applied Surface Science</i> , 2007, 254, 704-708.	6.1	9
28	Spectral properties of the Cu-hyperaccumulating moss <i>Scopelophila cataractae</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 467-472.	3.8	9
29	Charge/discharge properties of a layered-type Li(Ni,Co,Ti)O ₂ powder library. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 054203.	6.1	9
30	Effect of copper stress on cup lichens <i>Cladonia humilis</i> and <i>C. subconistea</i> growing on copper-hyperaccumulating moss <i>Scopelophila cataractae</i> at copper-polluted sites in Japan. <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 341-346.	6.0	9
31	Thermoelectric properties of bismuth-substituted calcium manganite Ca _{1-x} Bi _x MnO ₃ prepared via the electrostatic spray deposition method. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 308-312.	1.1	9
32	Disordered off-center direction of Ti ⁴⁺ in pseudo-cubic type BaTiO ₃ ; prepared by mixed hydroxide process. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 73-78.	1.1	9
33	Adsorption Behavior of Nitrogen Monoxide on K _x Ga _x Sn _{8-2x} O ₁₆ Hollandite. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 377-381.	2.4	8
34	Design of Seebeck Coefficient Measurement Probe for Powder Library. <i>ACS Combinatorial Science</i> , 2014, 16, 66-70.	3.8	8
35	Improvement of hydrogen gas sensing property of the sol-gel derived Pt/WO ₃ thin film by Ti-doping. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 1102-1105.	1.1	8
36	Low-temperature Solid-state Synthesis of Perovskite Oxides under 50 °C. <i>Chemistry Letters</i> , 2016, 45, 226-228.	1.3	8

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37	Photoabsorption Study of Pigments in Mosses: <i>Scopelophila ligulata</i> Has an Abnormally High Formation Rate of Pheophytin. <i>Chemistry Letters</i> , 2010, 39, 284-285.	1.3	6
38	Fabrication of Textured Ti ₂ AlN Ceramic by Slip Casting in a Strong Magnetic Field and Spark Plasma Sintering. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014, 61, 538-543.	0.2	6
39	Ion-exchange property of lepidocrocite-type K _{0.8} Zn _{0.4} Ti _{1.6} O ₄ using NH ₄ NO ₃ molten salt. <i>Journal of Ion Exchange</i> , 2014, 25, 12-15.	0.3	6
40	Thermoelectric Properties of Mg ₂ Si _{1-x} Ge _x Sb _y Prepared by Spark Plasma Sintering. <i>MRS Advances</i> , 2016, 1, 3971-3976.	0.9	5
41	Effect of chemical oxidation of spinel-type LiNi _{0.5} Mn _{1.3} Ti _{0.2} O ₄ by soaking in HNO ₃ , HCl and H ₂ SO ₄ . <i>Journal of Solid State Chemistry</i> , 2021, 302, 122366.	2.9	5
42	Crystal growth and structure refinement of hollandite-type K _{1.59} Ga _{1.59} Ti _{6.41} O ₁₆ . <i>Solid State Ionics</i> , 2011, 184, 74-77.	2.7	4
43	Novel Room Temperature Synthesis Process of SrTiO ₃ Fine Particles and Its Photocatalytic Property. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016, 63, 559-562.	0.2	4
44	Thermoelectric properties of Cr-doped higher manganese silicides prepared using spark plasma sintering. <i>MRS Advances</i> , 2018, 3, 1367-1372.	0.9	4
45	Synthesis of indium tin oxide films from ethyl acetoacetato complexes at low temperatures. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 100, 68-73.	2.4	4
46	Photoinduced hydrophilicity and photocatalytic decomposition of endocrine-disrupting chemical pentachlorophenol on hollandite. <i>Journal of Materials Research</i> , 2003, 18, 1046-1053.	2.6	3
47	Reactivity of Carbonates in Superheated Steam under Atmospheric Pressure. <i>Key Engineering Materials</i> , 0, 617, 225-228.	0.4	3
48	Low-Temperature Spark Plasma Sintering of ZrW ₂ xMoxO ₈ Exhibiting Controllable Negative Thermal Expansion. <i>Materials</i> , 2018, 11, 1582.	2.9	3
49	Development of Measurement Tools for High-Throughput Experiments of Synchrotron Radiation XRD and XAFS on Powder Libraries. <i>ACS Combinatorial Science</i> , 2020, 22, 734-737.	3.8	3
50	High-Throughput Preparation and Characterization of Powder and Thin-Film Library for Electrode Materials. <i>Materials Science Forum</i> , 2007, 534-536, 469-472.	0.3	2
51	High-Pressure Combinatorial Process Integrating Hot Isostatic Pressing. <i>ACS Combinatorial Science</i> , 2013, 15, 622-625.	3.8	2
52	Low-Temperature Synthesis of MgAl ₂ O ₄ by Capsule HIP Using Hydroxides as Starting Materials. <i>Key Engineering Materials</i> , 2014, 617, 217-220.	0.4	2
53	Preparation and Thermoelectric Properties of Perovskite-Type A _x Ca _{1-x} B _y Mn _{1-y} O ₃ (A;La,Bi,Y,Sr) (B;Ni,Ti,V) Thin-Films by Electrostatic Spray Deposition Method. <i>Key Engineering Materials</i> , 2014, 617, 256-259.	0.4	2
54	Single crystal growth and structure refinement of hollandite-type K _{1.98} Fe _{1.98} Sn _{6.02} O ₁₆ . <i>Journal of Crystal Growth</i> , 2014, 390, 88-91.	1.5	2

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55	Fabrication and Mechanical Properties of Textured Ti ₃ SiC ₂ MAX Phase Systems. Funtai Oyobi Fumimatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 970-975.	0.2	2
56	Pt/WO ₃ Nanoparticle-Dispersed Polydimethylsiloxane Membranes for Transparent and Flexible Hydrogen Gas Leakage Sensors. Membranes, 2022, 12, 291.	3.0	2
57	Single-Crystal Growth of Layered Birnessite-Type Manganese Oxides and Their Delamination into MnO ₂ Nanosheets. Crystal Growth and Design, 2022, 22, 625-632.	3.0	2
58	Development of Robot System and X-ray Powder Diffraction for Combinatorial Materials Research. Materials Research Society Symposia Proceedings, 2001, 700, 511.	0.1	1
59	Oxygen dependence of NO adsorption on Hollandite-type K _x Ga _x Sn _{8-x} O ₁₆ thin film. Research on Chemical Intermediates, 2002, 28, 493-503.	2.7	1
60	Establishment of Reaction Phase Diagrams of Pseudo Quaternary Li-Ni-Co-Ti Oxides Library. Materials Research Society Symposia Proceedings, 2007, 1024, 1.	0.1	1
61	Preparation of Piled Ba(Zr _x Ti _{1-x})O ₃ with Flat Temperature Dependence in Dielectric Constant. Funtai Oyobi Fumimatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 236-240.	0.2	1
62	Development of the Fe Anodic Catalyst for Solid Oxide Fuel Cell Operated at Intermediate-temperature Direct Utilizing of Dimethylether Fuel. Electrochemistry, 2009, 77, 225-228.	1.4	1
63	Development of the Fe-Ni Anodic Catalyst for Solid Oxide Fuel Cell Operated at Intermediate-temperature Direct Utilizing of Dimethylether Fuel. Electrochemistry, 2009, 77, 149-151.	1.4	1
64	Distribution of K ⁺ /Cs ⁺ Ions in the Alkali Layer of (K ⁺ , Cs ⁺)- β -Ferrite. IOP Conference Series: Materials Science and Engineering, 2011, 18, 022022.	0.6	1
65	Structure refinement of newly gallo-titanogallate type K _x Ga _{8-x} Sn _{16-x} O ₅₆ . Solid State Ionics, 2011, 184, 70-73.	2.7	1
66	Combinatorial exploration of newly pseudo-quintenary layered-type Li-Ni-Co-Fe-Ti oxides. Materials Research Society Symposia Proceedings, 2012, 1425, 52.	0.1	1
67	Establishment of Pseudoternary LiO _{0.5} NiO _{0.5} MnO ₂ Phase Diagram by Combinatorial Wet Process. ACS Combinatorial Science, 2013, 15, 626-630.	3.8	1
68	Thermoelectric properties of synthesized Mg ₂ Si _{0.95} Ge _{0.05} Sb _x by spark plasma sintering. Materials Research Society Symposia Proceedings, 2015, 1735, 56.	0.1	1
69	Investigation of Mg ₂ Si formation from Si and Mg by using spark plasma sintering synthesis. Materials Research Society Symposia Proceedings, 2015, 1735, 62.	0.1	1
70	Preparation and Characterization of Ca ₃ (Co,M) ₄ O ₉ Type Thermoelectric Materials Using the Electrostatic Spray Deposition Method. Funtai Oyobi Fumimatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 175-184.	0.2	1
71	Preparation and Characterization of Ca ₃ (Co,M) ₄ O ₉ Type Thermoelectric Materials Using the Electrostatic Spray Deposition Method. Materials Transactions, 2016, 57, 1482-1488.	1.2	1
72	Electrode Property of Spinel-type LiNi _{0.5} Mn _{1.5} Ti _x O ₄ (0 ≤ x ≤ 1) / Overl Japan Society of Powder and Powder Metallurgy, 2016, 63, 679-683.	0.2	1

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73	A New Route to Carbon Film Coating by Anodic Electrodeposition from Ionic Liquid Containing Different Phenylsilane Derivatives. <i>Chemistry Letters</i> , 2020, 49, 1349-1352.	1.3	1
74	Reaction mechanism on the formation of (Sr, Ba)TiO ₃ and Ba(Zr, Ti)O ₃ at near room temperature by using A(OH) ₂ ·nH ₂ O (A = Sr, Ba) and BO ₂ ·nH ₂ O gel (B = Zr, Ti, Zr _{0.45} Ti _{0.55}). <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 124-130.	2.3	1
75	Mapping of Phase Diagram and Electrode Properties in Spinel-type LiNi _x Mn _{2-x-y} Ti _y O ₄ Cathodes for Lithium-Ion Batteries. <i>Transactions of the Materials Research Society of Japan</i> , 2020, 45, 211-216.	0.2	1
76	NO _x storage properties of hollandite-type K _x Ga _x Sn _{8-2x} O ₁₆ . <i>Research on Chemical Intermediates</i> , 2003, 29, 749-753.	2.7	0
77	High-throughput preparation of multinary liquid, thin-film and powder library by combinatorial electrostatic atomization system. <i>Materials Research Society Symposia Proceedings</i> , 2005, 894, 1.	0.1	0
78	Low-Temperature Preparation of Nano-Sized Particles of Some Alkali Titanates by Solution Process. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009, 56, 225-231.	0.2	0
79	Direct-DME SOFC for Intermediate Operation Temperature Using Proton Conductor as the Electrolyte. <i>ECS Transactions</i> , 2011, 35, 2755-2759.	0.5	0
80	Fine particle preparation and electrode property of layered-type LiNi _{0.4} Co _{0.6-x} Ti _x O ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1425, 65.	0.1	0
81	Reduction of Contact Resistance between Na _x CoO ₂ Thermoelectric Chip and Ag Electrode by Using Spark Plasma Sintering Method.. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1642, 1.	0.1	0
82	Correlativity of the nitrogen oxide adsorption mechanism and crystal structure in hollandite-type compounds. <i>Materials for Renewable and Sustainable Energy</i> , 2014, 3, 1.	3.6	0
83	Preparation of Gallium Stannate Dense Sintered Body Using SPS Method. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016, 63, 986-989.	0.2	0
84	In-situ observation of nitrogen monoxide adsorption on perovskite-type M ₃ TiO ₇ (M = Sr, Ba). <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 579-583.	1.1	0
85	Phase relation and thermoelectric property of Ca _{1-x} BixMn _{1-y} NiyO ₃ (0 ≤ x, y ≤ 0.1). <i>MRS Advances</i> , 2016, 1, 1941-1946.	0.9	0
86	Fabrication and Mechanical Properties of Textured Ti ₃ SiC ₂ Systems Using Commercial Powders. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017, 64, 552-557.	0.2	0
87	Preparation of NiSi ₂ and application to thermoelectric silicide elements used as electrodes. <i>MRS Advances</i> , 2018, 3, 1361-1365.	0.9	0
88	Preparation of WO ₃ ·nH ₂ O Thin Films at Room Temperature by Solution Process and Their Electrochromic Properties. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2009, 60, 268-272.	0.2	0
89	Photocatalytic Amino-Group Modification of Diamond and High Dispersion Composite Technique with Copper Substrate. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2021, 72, 701-703.	0.2	0
90	Preparation and electrode property of layered rock-salt type LiNi _{1-x-y-z} Co _x (Li _z) ₂ and		

#	ARTICLE	IF	CITATIONS
91	(Invited, Digital Presentation) The Challenge of Automated High-Throughput Experiments on a Variety of Powder Libraries. ECS Meeting Abstracts, 2022, MA2022-01, 1069-1069.	0.0	0