

Hideo Kimura

List of Publications by Year in descending order

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105
papers

2,167
citations

318942

23
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274796

44
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107
all docs

107
docs citations

107
times ranked

2585
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of various Co ₃ O ₄ /bio-activated carbon electrodes for hybrid capacitor device application. Journal of Alloys and Compounds, 2022, 891, 161967.	2.8	22
2	Photoresponse of high quality epitaxial BiFeO ₃ films grown through hydrothermal method and rapid microwave assisted method. Ceramics International, 2022, 48, 7778-7783.	2.3	2
3	Co ₃ O ₄ nanoparticle-dotted hierarchical-assembled carbon nanosheet framework catalysts with the formation/decomposition mechanisms of Li ₂ O ₂ for smart lithium-oxygen batteries. Inorganic Chemistry Frontiers, 2022, 9, 1115-1124.	3.0	76
4	Oxidative degradation of phenols and substituted phenols in the water and atmosphere: a review. Advanced Composites and Hybrid Materials, 2022, 5, 627-640.	9.9	87
5	Embedding NiS nanoflakes in electrospun carbon fibers containing NiS nanoparticles for hybrid supercapacitors. Chemical Engineering Journal, 2022, 446, 137262.	6.6	66
6	A novel (1±i ²)NiS/Ni ₃ S ₄ -rGO electrode material for supercapacitors. Colloids and Interface Science Communications, 2021, 43, 100453.	2.0	6
7	Multiple reflection and scattering effects of the lotus seedpod-based activated carbon decorated with Co ₃ O ₄ microwave absorbent. Journal of Colloid and Interface Science, 2021, 602, 344-354.	5.0	16
8	Recent advances in transition metal oxides with different dimensions as electrodes for high-performance supercapacitors. Advanced Composites and Hybrid Materials, 2021, 4, 906-924.	9.9	281
9	van der Waals force layered multiferroic hybrid perovskite (CH ₃ NH ₃) ₂ CuCl ₄ single crystals. Physical Chemistry Chemical Physics, 2020, 22, 4235-4239.	1.3	19
10	Thickness-dependent frictional behavior of topological insulator Bi ₂ Se ₃ nanoplates. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	2
11	Composition gradient (1-x)Ba(Zr _{0.2} Ti _{0.8})O _{3-x} (Ba _{0.7} Ca _{0.3})TiO ₃ film with improved dielectric, piezoelectric and ferroelectric temperature stability. Ceramics International, 2020, 46, 20284-20290.	2.3	3
12	The dielectric properties of alternately doped Ba _{1-x} Sr _x TiO ₃ films with different Ba/Sr ratios. Ceramics International, 2019, 45, 8300-8304.	2.3	5
13	Aurivillius layer-structured multiferroic materials. , 2019, , 41-60.		0
14	Ferroelectric nanofibers and their application in energy harvesting. , 2019, , 181-194.		0
15	Domain switching in bismuth layer-structured multiferroic films. , 2019, , 1-21.		0
16	Strain tuning effects in perovskites. , 2019, , 23-39.		0
17	Electric and magnetic properties of Aurivillius-phase compounds: Bi ₅ Ti ₃ XO ₁₅ (X = Cu, Mn, Ni, V). Ceramics International, 2018, 44, 13226-13231.	2.3	8
18	Synthesis of molybdenum carbide superconducting compounds by microwave-plasma chemical vapor deposition. Journal of Applied Physics, 2018, 123, .	1.1	18

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19	PVDF/BCT-BZT Nanocomposite Film for a Piezo-Driven Self-Charging Power Cell. Journal of the Electrochemical Society, 2018, 165, A1238-A1246.	1.3	12
20	Direct degradation of dyes by piezoelectric fibers through scavenging low frequency vibration. Chemical Physics Letters, 2018, 702, 26-31.	1.2	25
21	Domain switching in single-phase multiferroics. Applied Physics Reviews, 2018, 5, 021102.	5.5	39
22	Multifield Control of Domains in a Room-Temperature Multiferroic 0.85BiTi _{0.1} Fe _{0.8} Mg _{0.1} O ₃ ∧0.15CaTiO ₃ Thin Film. ACS Applied Materials & Interfaces, 2018, 10, 20712-20719.	4.0	17
23	Poling-free energy harvesters based on robust self-poled ferroelectric fibers. Nano Energy, 2018, 50, 97-105.	8.2	32
24	Dawn of Magnetic Refrigerant Research at the National Research Institute for Metals. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2018, 53, 306-312.	0.1	0
25	Nanoporous MoS ₂ /C Composites for High Performance Lithium Ion Battery Anode Material. Electrochimica Acta, 2017, 239, 74-83.	2.6	25
26	Mechanical force involved multiple fields switching of both local ferroelectric and magnetic domain in a Bi ₅ Ti ₃ FeO ₁₅ thin film. NPC Asia Materials, 2017, 9, e349-e349.	3.8	37
27	Epitaxial growth of BiFeO ₃ films on TiN under layers by sputtering deposition. AIP Advances, 2017, 7, 055815.	0.6	1
28	Lead-free 0.5Ba(Ti _{0.8} Zr _{0.2})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ thin films with enhanced electric properties fabricated from optimized sol-gel systems. Materials Chemistry and Physics, 2017, 186, 528-533.	2.0	5
29	Structural, Magnetic and Dielectric Properties of [(CH ₃) ₂ NH ₂] _x Mn ^{1-x} (HCOO) ₃ . Journal of Electronic Materials, 2017, 46, 5540-5545.	1.0	4
30	Ferroelectric domains and phase evolution in (Fe:K)Ta _{1-x} NbO ₃ crystals. Applied Surface Science, 2017, 413, 1-6.	3.1	7
31	A Novel Class of Multiferroic Material, Bi ₄ Ti ₃ O ₁₂ ∧BiFeO ₃ with Localized Magnetic Ordering Evaluated from Their Single Crystals. Advanced Electronic Materials, 2017, 3, 1600254.	2.6	26
32	Flexible tensile strain sensor based on lead-free 0.5Ba(Ti _{0.8} Zr _{0.2})O ₃ ∧0.5(Ba _{0.7} Ca _{0.3})TiO ₃ piezoelectric nanofibers. Smart Materials and Structures, 2017, 26, 097001.	1.8	17
33	Epoxy-Based Composites Embedded with High Performance BZT-0.5BCT Piezoelectric Nanoparticles Powders for Damping Vibration Absorber Application. Crystals, 2017, 7, 105.	1.0	2
34	Switching of both local ferroelectric and magnetic domains in multiferroic Bi _{0.9} La _{0.1} FeO ₃ thin film by mechanical force. Scientific Reports, 2016, 6, 31867.	1.6	23
35	Tiny adiabatic-demagnetization refrigerator for a commercial superconducting quantum interference device magnetometer. Review of Scientific Instruments, 2016, 87, 123905.	0.6	8
36	High output power density nanogenerator based on lead-free 0.96(K _{0.48} Na _{0.52})(Nb _{0.95} Sb _{0.05})O ₃ ∧0.04Bi _{0.5} (Na _{0.5})O ₃ piezoelectric nanofibers. RSC Advances, 2016, 6, 66451-66456.	0.4	4

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37	Mechanical and electrical switching of local ferroelectric domains of K _{0.5} Bi _{4.5} Ti ₄ O ₁₅ film. Journal of Materials Science: Materials in Electronics, 2016, 27, 5613-5617.	1.1	5
38	Effects of substrate temperature on the microstructure and ferroelectric properties of Aurivillius Bi ₆ Ti ₃ Fe ₂ O ₁₈ thin films. Journal of Alloys and Compounds, 2015, 632, 473-477.	2.8	8
39	An Investigation of the Nanomechanical Properties of 0.5Ba(Ti _{0.8} Zr _{0.2})O ₃ ·0.5(Ba _{0.7} Ca _{0.3})Ti _{0.9} Thin Films. Journal of the American Ceramic Society, 2015, 98, 114-118.		
40	Energy Harvesting Using PLZT and Lead-Free Ceramics and Their Piezoelectric Properties on the Nano-scale. Ferroelectrics, 2015, 475, 71-81.	0.3	8
41	Ferroelectric and magnetic properties of Aurivillius Bi _{m+1} Ti ₃ Fem [~] 3O _{3m+3} thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	8
42	The Effect of Growth Kinetics on the Formation of Peritectic Microstructures in a Sr(NO ₃) ₂ ·H ₂ O System. Crystal Growth and Design, 2015, 15, 4672-4675.	1.4	0
43	Impacts of crystal orientation of GaAs on the interfacial structures and electrical properties of Hf _{0.6} La _{0.4} O _x films. Journal of Applied Physics, 2014, 115, 134101.	1.1	0
44	Temperature and frequency dependences of the electric properties of CLBO crystals. Journal of Alloys and Compounds, 2014, 591, 377-382.	2.8	0
45	Interface Strain-Induced Multiferroicity in a SmFeO ₃ Film. ACS Applied Materials & Interfaces, 2014, 6, 7356-7362.	4.0	52
46	Potential Advantage of Multiple Alkali Metal Doped KNbO ₃ Single Crystals. Crystals, 2014, 4, 190-208.	1.0	6
47	Large magnetoelectric coupling in magnetically short-range ordered Bi ₅ Ti ₃ FeO ₁₅ film. Scientific Reports, 2014, 4, 5255.	1.6	135
48	Multivariate Statistical Characterization of Charged and Uncharged Domain Walls in Multiferroic Hexagonal YMnO ₃ Single Crystal Visualized by a Spherical Aberration-Corrected STEM. Nano Letters, 2013, 13, 4594-4601.	4.5	46
49	Room temperature multiferroic heterostructure: Nd: BiFeO ₃ /YMnO ₃ . Journal of Crystal Growth, 2013, 365, 19-23.	0.7	1
50	Crystallization, phase evolution and ferroelectric properties of sol-gel-synthesized Ba(Ti _{0.8} Zr _{0.2})O ₃ ·x(Ba _{0.7} Ca _{0.3})TiO ₃ thin films. Journal of Materials Chemistry C, 2013, 1, 522-530.		97
51	The influence of layer thickness and post annealing on magnetism of pulsed laser deposited ZnO/Co multilayers. Journal of Magnetism and Magnetic Materials, 2013, 345, 41-47.	1.0	6
52	Density of states, magnetic and transport properties of Nd doped two dimensional perovskite compound Sr ₂ CoO ₄ . Journal of Applied Physics, 2012, 111, 07D708.	1.1	2
53	Structure and magnetism of ZnO/Co multilayers prepared by pulsed laser deposition. Crystal Research and Technology, 2012, 47, 799-803.	0.6	1
54	Weak ferroelectricity of potassium niobate K ₄ Nb ₆ O ₁₇ single crystal grown by pulling down technique. Materials Letters, 2012, 84, 16-19.	1.3	3

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55	Fabrication of PbTiO_3 and Pt self-organized nanocrystal array structure on atomically flat sapphire. , 2011, , .		0
56	Continuously tunable magnetic phase transitions in the $\text{DyMn}_2\text{Fe}_2\text{O}_7$ system. Applied Physics Letters, 2011, 99, .	1.5	51
57	dielectric, antiferromagnetic, and thermal properties of the frustrated hexagonal HoMnO_3 . Applied Physics Letters, 2011, 99, .		
58	A new multiferroic heterostructure of $\text{YMnO}_3/\text{SnTiO}_3$. Scripta Materialia, 2011, 65, 618-621.	2.6	11
59	Crystal growth and electric property change by rubidium or cesium doping on potassium sodium niobate. Crystal Research and Technology, 2011, 46, 37-40.	0.6	9
60	Fabrication of atomically flat Pt layer on sapphire substrate by low angle incidence sputtering method. Transactions of the Materials Research Society of Japan, 2011, 36, 11-13.	0.2	1
61	Materials Science Approach for Improvement of Bismuth-Iron Base Multiferroic Thin Films. Materia Japan, 2010, 49, 364-370.	0.1	0
62	Magnetic characterization of $\text{Bi}_2\text{FeMnO}_6$ film grown on (100) SrTiO_3 substrate. Physica Status Solidi - Rapid Research Letters, 2010, 4, 314-316.	1.2	7
63	Crystal growth of alkali metal ion doped potassium niobate fiber single crystals. Optical Materials, 2010, 32, 735-738.	1.7	8
64	Magnetic properties of La doped $\text{Bi}_2\text{FeMnO}_6$ ceramic and film. Journal of Applied Physics, 2010, 108, .	1.1	9
65	Effect of Exposure Test on Transmittance of Molecular Contaminant. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Pc_49-Pc_51.	0.1	0
66	Cation Doped TiO_2 Films by Pulsed Laser Deposition Method and Their Photocatalysis Effects. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Pc_1-Pc_4.	0.1	0
67	Room temperature multiferroic properties of $\text{Nd:BiFeO}_3/\text{Bi}_2\text{FeMnO}_6$ bilayered films. Applied Physics Letters, 2009, 95, .	1.5	40
68	Colossal Electroresistance and Giant Magnetoresistance in Doped PbPdO_2 Thin Films. Advanced Materials, 2009, 21, 2196-2199.	11.1	100
69	Crystal growth and characterization of ytterbium garnet and holmium garnet using the Fz technique. Journal of Crystal Growth, 2009, 311, 522-525.	0.7	5
70	Improved ferroelectric properties in multiferroic BiFeO_3 thin films through La and Nb codoping. Physical Review B, 2008, 77, .	1.1	223
71	Crystal Growth and Electric Properties of Bismuth Titanate Fibers. Japanese Journal of Applied Physics, 2007, 46, 7031-7034.	0.8	7
72	Effect of Nitrogen on Crevice Corrosion and Passivation Behavior of Austenitic Stainless Steel. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2007, 71, 570-577.	0.2	3

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73	A novel aqueous solution method for K ₃ Li ₂ Nb ₅ O ₁₅ film and powder. Journal of Crystal Growth, 2007, 307, 353-357.	0.7	3
74	Orientation dependent ferroelectric properties in samarium doped bismuth titanate thin films grown by the pulsed-laser-ablation method. Applied Physics Letters, 2006, 89, 032901.	1.5	28
75	Enhanced electrical polarization and ferromagnetic moment in a multiferroic BiFeO ₃ ·Bi _{3.25} Sm _{0.75} Ti _{2.98} V _{0.02} O ₁₂ double-layered thin film. Applied Physics Letters, 2006, 88, 132909.	1.5	78
76	Low-Temperature Synthesis of NaNbO ₃ Nanopowders and their Thin Films from a Novel Carbon-Free Precursor. Journal of the American Ceramic Society, 2006, 89, 1188-1192.	1.9	30
77	Effect of temperature and supersaturation on the growth of Sr(NO ₃) ₂ (111) face in aqueous solution. Journal of Crystal Growth, 2006, 289, 303-307.	0.7	3
78	Flux Growth of Pure and Lanthanum (La ³⁺)-Substituted Bi ₄ Ti ₃ O ₁₂ Single Crystals and Their Characterization. Japanese Journal of Applied Physics, 2006, 45, 835-840.	0.8	6
79	A promising new UV/VUV nonlinear optical crystal: SrAlF ₅ . , 2005, 5723, 377.		1
80	Growth of lead potassium niobate crystal from melt. Journal of Crystal Growth, 2005, 275, e833-e838.	0.7	3
81	Formation of Lithium Niobate from Peroxide Aqueous Solution. Journal of the American Ceramic Society, 2005, 88, 1023-1025.	1.9	16
82	Crystal Growth and Characterization of Pb ₂ KNb ₅ O ₁₅ . Japanese Journal of Applied Physics, 2004, 43, 6658-6661.	0.8	8
83	Optical and Electrical Studies on Trivalent-Ion (Cr, Fe)-Doped Potassium Titanyl Phosphate Single Crystals. Japanese Journal of Applied Physics, 2004, 43, 6667-6671.	0.8	4
84	Fluctuation of crystallization at center part of floating molten zone under reduced gravity condition. Crystal Research and Technology, 2004, 39, 117-122.	0.6	1
85	Characterization of SHG candidate crystals in barium aluminum (gallium) borates. Crystal Research and Technology, 2004, 39, 333-336.	0.6	3
86	Formation of Niobates from Aqueous Peroxide Solution. Chemistry Letters, 2004, 33, 1620-1621.	0.7	17
87	Crystal growth of barium aluminum (gallium) borates. Crystal Research and Technology, 2003, 38, 743-747.	0.6	3
88	Optical properties of Czochralski grown rare-earth garnet single crystals in solid solution. Journal of Crystal Growth, 2003, 250, 251-255.	0.7	8
89	In situ observation of the crystallization via incongruent melting and peritectic reaction in Sr(NO ₃)·H ₂ O system. Journal of Crystal Growth, 2003, 255, 379-385.	0.7	5
90	Growth kinetics of primary and secondary solid phases in Sr(NO ₃)·H ₂ O peritectic system. Journal of Crystal Growth, 2003, 255, 386-391.	0.7	2

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91	Lattice Parameter Dependence of Refractive Index and Dielectric Constant of Czochralski Grown Rare-Earth Garnet Single Crystals in Solid Solution. Japanese Journal of Applied Physics, 2002, 41, 5334-5335.	0.8	11
92	Crystallization from a molten zone and pendant drop under supercooling conditions. Journal of Crystal Growth, 2002, 237-239, 1835-1839.	0.7	2
93	Solid-State Synthesis of $\text{Dy}_3\text{Al}_5\text{O}_{12}$ Using Dy_2O_3 and Al_2O_3 Powders. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 295-300.	0.2	2
94	Crystal growth of BaB_2O_4 from melt using a Pt tube as a seed. Journal of Crystal Growth, 1996, 165, 408-412.	0.7	12
95	Internal Oxidation of $\text{Ag-YBa}_2\text{Cu}_3$, $\text{Bi}_2\text{Sr}_2\text{CaCu}_2$, and $\text{Bi}_1.8\text{Pb}_0.3\text{Sr}_2\text{Ca}_2\text{Cu}_3$ Alloys, and Their Resulting Superconducting Properties. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 295-300.	0.2	1
96	Minimization of lattice parameter change in Czochralski grown $(\text{Gd}_{1-x}\text{Y}_x)_3\text{Ga}_5\text{O}_{12}$ garnet single crystal. Journal of Crystal Growth, 1992, 119, 313-316.	0.7	3
97	Crystal growth of large size $\text{Dy}_3\text{Al}_5\text{O}_{12}$ Garnet single crystals. Journal of Crystal Growth, 1990, 99, 850-853.	0.7	9
98	Crystal Structure and Thermal Conductivity of $\text{Gd}_3(\text{Ga}_{1-x}\text{Al}_x)_5\text{O}_{12}$ Garnets. Japanese Journal of Applied Physics, 1989, 28, 1644-1647.	0.8	16
99	Dislocations and Thermal Conductivity of $\text{Gd}_{3+y}(\text{Ga}_{0.8}\text{Al}_{0.2})_5\text{O}_{12}$ Garnets. Japanese Journal of Applied Physics, 1989, 28, 1654-1658.	0.8	6
100	Single crystal growth of $(\text{Dy}_{1-x}\text{Gd}_x)_3\text{Al}_5\text{O}_{12}$ and $(\text{Dy}_{1-x}\text{Gd}_x\text{Y})_3\text{Al}_5\text{O}_{12}$ garnets. Journal of Crystal Growth, 1989, 97, 607-612.	0.7	12
101	Single crystal growth and characterization of $(\text{Dy}_{1-x}\text{Gd}_x)_3\text{Ga}_5\text{O}_{12}$ Garnets. Journal of Crystal Growth, 1988, 87, 523-528.	0.7	16
102	Single crystals growth and magneto-thermal properties of $\text{Dy}_3\text{Ga}_5\text{O}_{12}$ garnet. Journal of Materials Science, 1988, 23, 809-813.	1.7	31
103	Czochralski growth of $\text{Gd}_3(\text{Ga}_{1-x}\text{Al}_x)_5\text{O}_{12}$ single crystals. Journal of Crystal Growth, 1986, 74, 187-190.	0.7	22
104	Magneto-thermal properties of $\text{Gd}_3(\text{Ga}_{1-x}\text{Al}_x)_5\text{O}_{12}$ single crystals.. TEION KOGAKU (Journal of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 0.1 6	0.1	6
105	$\text{Li}(\text{Ga}_{1-x}\text{M}_x)_2\text{O}_7$ (M: B or Al) Single Crystals Grown by Floating Zone Method. Key Engineering Materials, 0, 421-422, 185-188.	0.4	0