Masashi Mikami

List of Publications by Year
in descending order

88 papers	2,172 citations	249298 26 h-index	263392 45 g-index
89 all docs	89 docs citations	89 times ranked	2162 citing authors

#	Article	IF	Citations
1	Suppressed atomic diffusion in flash sintering of bismuth telluride. Journal of the European Ceramic Society, 2022, , .	2.8	1
2	Power generation performance of Heusler Fe2VAl modules. , 2021, , 493-502.		1
3	Anomalously Low Heat Conduction in Singleâ€Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals. Advanced Materials Interfaces, 2021, 8, 2001932.	1.9	9
4	Low thermal conductivity of SrTiO 3 â^'LaTiO 3 and SrTiO 3 â^'SrNbO 3 thermoelectric oxide solid solutions. Journal of the American Ceramic Society, 2021, 104, 4075-4085.	1.9	5
5	Machine learning based prediction of lattice thermal conductivity for half-Heusler compounds using atomic information. Scientific Reports, 2021, 11, 13410.	1.6	22
6	Near-Net-Shape Fabrication of Thermoelectric Legs by Flash Sintering. Journal of Electronic Materials, 2020, 49, 593-600.	1.0	4
7	Crossover in periodic length dependence of thermal conductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml element substituted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi	1.1	6
8	Effects of partial substitution by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml: heavy elements on the thermal transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>VAl</mml:mi></mml:mrow></mml:math>	1.1	10
9	Co-Substitution Effect in Room-Temperature Ferromagnetic Oxide Sr3.1Y0.9Co4O10.5. Materials, 2020, 13, 2301.	1.3	3
10	Development of Na0.5CoO2 Thick Film Prepared by Screen-Printing Process. Materials, 2020, 13, 2805.	1.3	2
11	Rapid Fabrication of Thermoelectric Compounds by Flash Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 478-483.	0.1	0
12	Unusually Small Thermal Expansion of Ordered Perovskite Oxide CaCu3Ru4O12 with High Conductivity. Materials, 2018, 11, 1650.	1.3	5
13	Flash-sintering of antimony telluride and its thermoelectric properties. Journal of Applied Physics, 2018, 124, 105104.	1.1	9
14	Trial of an All-Ceramic SnO2 Gas Sensor Equipped with CaCu3Ru4O12 Heater and Electrode. Materials, 2018, 11, 981.	1.3	9
15	High electrical conductivity of composite ceramics consisting of insulating oxide and ordered perovskite conducting oxide. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600968.	0.8	6
16	Fabrication of thin-film thermoelectric generators with ball lenses for conversion of near-infrared solar light. Japanese Journal of Applied Physics, 2017, 56, 06GN06.	0.8	20
17	Microstructure and thermoelectric properties of WSi2-added CrSi2 composite. Journal of Alloys and Compounds, 2017, 690, 652-657.	2.8	21
18	Element Strategy Using Ru-Mn Substitution in CuO-CaCu3Ru4O12 Composite Ceramics with High Electrical Conductivity. Crystals, 2017, 7, 213.	1.0	3

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19	Thickness dependence of thermal conductivity and electron transport properties of Fe<SUB align="right">2VAl thin-films prepared by RF sputtering technique. International Journal of Nanotechnology, 2016, 13, 881.	0.1	2
20	Rapid synthesis of thermoelectric compounds by laser melting. Materials and Design, 2016, 106, 30-36.	3.3	9
21	Fabrication of CuO-based antireflection structures using self-arranged submicron SiO2spheres for thermoelectric solar generation. Japanese Journal of Applied Physics, 2016, 55, 06GP07.	0.8	1
22	Thermoelectric Properties of Fe₂VAl-Based Thin-Films Deposited at High Temperature. Materials Transactions, 2016, 57, 1628-1632.	0.4	14
23	Effect of Off-Stoichiometry on the Thermoelectric Properties of Heusler-Type Fe2VAl Sintered Alloys. Journal of Electronic Materials, 2016, 45, 1284-1289.	1.0	29
24	Thermoelectric Properties of Off-Stoichiometric Fe₂V_{1−<i>x</i>}Al_{1+<i>x</i>} Sintered Alloys and Design of Thermoelectric Power Generation Module. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 79, 627-632.	0.2	1
25	Thin-film thermoelectric generator with ball lens for using near-infrared solar energy. , 2015, , .		0
26	Changes in constituents and FeAl composition with oxygen content in WCâ€“FeAl composites. International Journal of Refractory Metals and Hard Materials, 2015, 50, 298-303.	1.7	8
27	Effect of Î·-phase and FeAl composition on the mechanical properties of WCâ€“FeAl composites. Intermetallics, 2015, 66, 120-126.	1.8	16
28	Fabrication Process of Antimony Telluride and Bismuth Telluride Micro Thermoelectric Generator. International Journal of Automation Technology, 2015, 9, 612-618.	0.5	0
29	Lift-off patterning of thermoelectric thick films deposited by a thermally assisted sputtering method. Applied Physics Express, 2014, 7, 057101.	1.1	8
30	Evaluation of the Thermoelectric Module Consisting of W-Doped Heusler Fe2VAl Alloy. Journal of Electronic Materials, 2014, 43, 1922-1926.	1.0	19
31	Effect of Ti Substitution on Thermoelectric Properties of W-Doped Heusler Fe2VAl Alloy. Journal of Electronic Materials, 2013, 42, 1801-1806.	1.0	15
32	Effect of Heavy Element Substitution and Off-Stoichiometric Composition on Thermoelectric Properties of Fe2VAl-Based Heusler Phase. Journal of Electronic Materials, 2013, 42, 2084-2090.	1.0	20
33	p-Type Sb2Te3and n-Type Bi2Te3Films for Thermoelectric Modules Deposited by Thermally Assisted Sputtering Method. Japanese Journal of Applied Physics, 2013, 52, 06GL07.	0.8	22
34	Thermoelectric thick film patterns formed by using thermally-assisted sputtering method and silicone lift-off masks. , 2013, , .		0
35	The effect of Cr buffer layer thickness on voltage generation of thin-film thermoelectric modules. Journal of Micromechanics and Microengineering, 2013, 23, 115016.	1.5	11
36	Thermoelectric properties of tungsten-substituted Heusler Fe2VAl alloy. Journal of Applied Physics, 2012, 111, .	1.1	92

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37	Improvement in rectification ratio of an Al-based bulk thermal rectifier working at high temperatures. Journal of Applied Physics, 2012, 111, 093517.	1.1	22
38	Effects of Heavy Element Substitution on Electronic Structure and Lattice Thermal Conductivity of Fe2VAl Thermoelectric Material. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2012, 76, 216-221.	0.2	2
39	Thermoelectric properties of nitrogen-doped TiO_{2-x}compounds. Journal of Physics: Conference Series, 2012, 379, 012006.	0.3	26
40	Thermalâ€“Photovoltaic Hybrid Solar Generator Using Thin-Film Thermoelectric Modules. Japanese Journal of Applied Physics, 2012, 51, 06FL07.	0.8	24
41	Effects of Heavy Element Substitution on Electronic Structure and Lattice Thermal Conductivity of Fe2VAl Thermoelectric Material. Journal of Electronic Materials, 2012, 41, 1348-1353.	1.0	36
42	Thin-Film Thermoelectric Modules for Power Generation Using Focused Solar Light. Journal of Electronic Materials, 2012, 41, 1713-1719.	1.0	31
43	Development of Eco-Friendly Thermoelectric Materials as Alternatives to Rare-Metal Alloy. , 2012, , 513-516.		1
44	Power Generation Performance of Thermoelectric Module Consisting of Sb-Doped Heusler Fe₂VAl Sintered Alloy. Materials Transactions, 2011, 52, 1546-1548.	0.4	14
45	Development of Thermoelectric Materials Based on Fe2VAl Heusler Compound and Application to Thermoelectric Module. Materia Japan, 2011, 50, 155-157.	0.1	0
46	Development of a Thermal Rectifier Usable at High Temperature. Journal of Electronic Materials, 2011, 40, 1129-1135.	1.0	8
47	The Effects of Element Substitution on Electronic Structure, Electron Transport Properties, and Lattice Thermal Conductivity of Fe₂VAl Thermoelectric Material. Materials Transactions, 2010, 51, 2139-2144.	0.4	6
48	Thermoelectric Properties of Nanograined ZnO. Journal of Electronic Materials, 2010, 39, 2059-2063.	1.0	50
49	Ti-O Direct-Current-Sintered Bodies and Their Use for Sputter Deposition of TiO Thin Films: Fabrication and Characterization. Journal of Electronic Materials, 2010, 39, 1364-1370.	1.0	2
50	Microstructure and thermoelectric properties of Heusler Fe2VAl thin-films. Thin Solid Films, 2010, 518, 2796-2800.	0.8	15
51	Enhanced boundary-scattering of electrons and phonons in nanograined zinc oxide. Journal of Applied Physics, 2010, 108, .	1.1	57
52	Development of a Thermoelectric Module Using the Heusler Alloy Fe2VAl. Journal of Electronic Materials, 2009, 38, 1121-1126.	1.0	36
53	Thermoelectric properties of Sb-doped Heusler Fe2VAl alloy. Journal of Alloys and Compounds, 2009, 484, 444-448.	2.8	33
54	Synthesis and thermoelectric properties of microstructural Heusler Fe2VAl alloy. Journal of Alloys and Compounds, 2008, 461, 423-426.	2.8	70

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55	Effect of Bi addition on microstructure and thermoelectric properties of Heusler Fe2VAl-sintered alloy. Journal of Alloys and Compounds, 2008, 466, 530-534.	2.8	19
56	Development and Evaluation of High-Strength Fe2VAl Thermoelectric Module. Japanese Journal of Applied Physics, 2008, 47, 1512-1516.	0.8	35
57	The Effect of Bi Addition on Thermoelectric Properties of the Sintered Heusler Fe2VAl Alloy. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
58	Preparation of Fe₂VAl Thermoelectric Module by RF Sputtering. Materials Science Forum, 2007, 539-543, 3285-3289.	0.3	1
59	Nanoblock Coupling Effect in Iodine Intercalated [Bi0.82CaO2]2[CoO2]1.69Layered Cobaltite. Inorganic Chemistry, 2007, 46, 2124-2131.	1.9	9
60	A portable thermoelectric-power-generating module composed of oxide devices. Journal of Applied Physics, 2006, 99, 066117.	1.1	85
61	Effect of Bi Substitution on Microstructure and Thermoelectric Properties of Polycrystalline [Ca2CoO3]pCoO2. Japanese Journal of Applied Physics, 2006, 45, 4152-4158.	0.8	18
62	Bi-Substitution Effects on Crystal Structure and Thermoelectric Properties of Ca3Co4O9Single Crystals. Japanese Journal of Applied Physics, 2006, 45, 4131-4136.	0.8	43
63	The effect of Ag addition on electrical properties of the thermoelectric compound Ca3Co4O9. Journal of Solid State Chemistry, 2005, 178, 2186-2190.	1.4	80
64	Electron correlation in the two-dimensional triangular lattice of with. Physica B: Condensed Matter, 2005, 359-361, 1345-1347.	1.3	0
65	Electronic structure near the Fermi level in the Ca Co layered cobalt oxide. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 849-852.	0.8	8
66	The effect of element substitution on high-temperature thermoelectric properties of Ca3Co2O6 compounds. Journal of Solid State Chemistry, 2005, 178, 1670-1674.	1.4	59
67	Enhancement of Electrical Properties of the Thermoelectric Compound Ca3Co4O9 through Use of Large-grained Powder. Journal of Materials Research, 2005, 20, 2491-2497.	1.2	36
68	Thermoelectric Modules For High Temperature Waste Heat. Materials Research Society Symposia Proceedings, 2005, 886, 1.	0.1	0
69	Synthesis and thermoelectric properties of Bi2.5Ca2.5Co2Ox layered cobaltites. Journal of Materials Research, 2005, 20, 1002-1008.	1.2	44
70	Electronic structure and its contribution to the thermoelectric power of Ca/sub 3/Co/sub 4/O/sub 9/ and Na/sub x/CoO/sub 2/ layered cobalt oxides. , 2005, , .		1
71	Structural features and transport properties of iodine intercalated misfit layer [BiCaO/sub 2/]/sub 2/[CoO/sub 2/]/sub 1.69/ single crystals. , 2005, , .		0
72	Power generation of thermoelectric oxide modules. , 2005, , .		1

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73	High-throughput screening of thermoelectric oxides and power generation modules consisting of oxide unicouples. Measurement Science and Technology, 2005, 16, 70-80.	1.4	24
74	Thermoelectric propertiesâ€“texture relationship in highly oriented Ca3Co4O9 composites. Applied Physics Letters, 2004, 85, 1490-1492.	1.5	54
75	Ca2.7Bi0.3Co4O9âˆ•La0.9Bi0.1NiO3 thermoelectric deviceswith high output power density. Applied Physics Letters, 2004, 85, 1036-1038.	1.5	102
76	Dome-Shaped Magnetic Phase Diagram of Thermoelectric Layered Cobaltites. Physical Review Letters, 2004, 92, 017602.	2.9	106
77	Electron correlation in the two-dimensional triangle lattice ofNaxCoO2. Physical Review B, 2004, 69, .	1.1	44
78	Universal charge transport of the Mn oxides in the high temperature limit. Journal of Applied Physics, 2004, 95, 6825-6827.	1.1	31
79	Contribution of electronic structure to the large thermoelectric power in layered cobalt oxides. Physical Review B, 2004, 69, .	1.1	169
80	Negative Thermoelectric Power Induced by Positive Carriers in CaMn3-xCuxMn4O12. Journal of the Physical Society of Japan, 2004, 73, 523-525.	0.7	21
81	High-temperature thermoelectric properties of single-crystal Ca3Co2O6. Journal of Applied Physics, 2003, 94, 6579-6582.	1.1	90
82	Effects of KCl Addition on the K2CO3Flux Growth of Ca3Co4O9Crystals for a Thermoelectric Device. Japanese Journal of Applied Physics, 2003, 42, 3549-3551.	0.8	15
83	Thermoelectric Properties of Two NaxCoO2Crystallographic Phases. Japanese Journal of Applied Physics, 2003, 42, 7383-7386.	0.8	43
84	Crystal Growth of Thermoelectric Material NaxCoO2-Î´ by a Flux Method. Japanese Journal of Applied Physics, 2002, 41, L777-L779.	0.8	22
85	Coherenceâ€“incoherence and dimensional crossover in layered strongly correlated metals. Nature, 2002, 417, 627-630.	13.7	171
86	Thermoelectric properties of Bi/sub 2/Te/sub 3//Sb/sub 2/Te/sub 3/ superlattice structure. , 0, , .		4
87	Growth and characterization of Na/sub x/CoO/sub 2-Î´/ crystals. , 0, , .		0
88	Thermoelectric Properties of the Heavy Element Doped Heusler Fe₂VAl Alloy Prepared by Powder Metallurgy Technique. Advances in Science and Technology, 0, , .	0.2	1