

Yuji Ohishi

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119
papers

976
citations

17
h-index

26
g-index

121
ext. papers

1,138
ext. citations

2.1
avg, IF

4.26
L-index

#	Paper	IF	Citations
119	Thermoelectric properties of Ag _{1-x} GaTe ₂ with chalcopyrite structure. <i>Applied Physics Letters</i> , 2011 , 99, 061902	3.4	95
118	Bottom-up nanostructured bulk silicon: a practical high-efficiency thermoelectric material. <i>Nanoscale</i> , 2014 , 6, 13921-7	7.7	52
117	Thermoelectric properties of heavily boron- and phosphorus-doped silicon. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 071301	1.4	48
116	Thermoelectric properties of Ga-added CoSb ₃ based skutterudites. <i>Journal of Applied Physics</i> , 2011 , 110, 013521	2.5	33
115	Heavily doped silicon and nickel silicide nanocrystal composite films with enhanced thermoelectric efficiency. <i>Journal of Applied Physics</i> , 2013 , 114, 134311	2.5	30
114	Carrier and heat transport properties of polycrystalline GeSn films on SiO ₂ . <i>Applied Physics Letters</i> , 2015 , 107, 232105	3.4	26
113	Effect of Phase Transition on the Thermoelectric Properties of Ag ₂ Te. <i>Materials Transactions</i> , 2012 , 53, 1216-1219	1.3	26
112	Mechanical and thermal properties of bulk ZrB ₂ . <i>Journal of Nuclear Materials</i> , 2015 , 467, 612-617	3.3	25
111	High-temperature thermoelectric properties of Cu ₂ Ga ₄ Te ₇ with defect zinc-blende structure. <i>Applied Physics Letters</i> , 2011 , 98, 172104	3.4	25
110	Effect of the Amount of Vacancies on the Thermoelectric Properties of Cu–Ga–Te Ternary Compounds. <i>Materials Transactions</i> , 2012 , 53, 1212-1215	1.3	24
109	Enhanced Thermoelectric Properties of Silicon via Nanostructuring. <i>Materials Transactions</i> , 2016 , 57, 1018-1021	1.3	22
108	Thermoelectric Properties of Indium-Added Skutterudites In _x Co ₄ Sb ₁₂ . <i>Journal of Electronic Materials</i> , 2013 , 42, 1463-1468	1.9	21
107	Formation of hydrogenated boron clusters in an external quadrupole static attraction ion trap. <i>Journal of Chemical Physics</i> , 2008 , 128, 124304	3.9	21
106	Mechanical and thermal properties of ZrSiO ₄ . <i>Journal of Nuclear Science and Technology</i> , 2017 , 54, 1267-1273	2.0	20
105	Thermal and mechanical properties of polycrystalline U ₃ Si ₂ synthesized by spark plasma sintering. <i>Journal of Nuclear Science and Technology</i> , 2018 , 55, 1141-1150	1	20
104	The Nanometer-Sized Eutectic Structure of Si/CrSi ₂ Thermoelectric Materials Fabricated by Rapid Solidification. <i>Journal of Electronic Materials</i> , 2018 , 47, 2330-2336	1.9	18
103	Density and viscosity of liquid ZrO measured by aerodynamic levitation technique. <i>Heliyon</i> , 2019 , 5, e02049	3.49	17

102	Enhancement of thermoelectric properties of CoSb ₃ -based skutterudites by double filling of Tl and In. <i>Journal of Applied Physics</i> , 2012 , 112, 043509	2.5	17
101	Thermoelectric properties of Zn-doped GaSb. <i>Journal of Applied Physics</i> , 2012 , 111, 043704	2.5	16
100	Synthesis and formation mechanism of hydrogenated boron clusters B(12)H(n) with controlled hydrogen content. <i>Journal of Chemical Physics</i> , 2010 , 133, 074305	3.9	15
99	Thermoelectric properties of Cr _{1-x} MoxSi ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 87, 153-157	3.9	14
98	Chalcopyrite ZnSnSb: A Promising Thermoelectric Material. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43682-43690	9.5	14
97	Enhancement of Thermoelectric Properties of Bulk Si by Dispersing Size-Controlled VSi ₂ . <i>Journal of Electronic Materials</i> , 2017 , 46, 3249-3255	1.9	13
96	High Thermoelectric Power Factor of Si/Mg ₂ Si Nanocomposite Ribbons Synthesized by Melt Spinning. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1962-1968	6.1	12
95	Enhanced thermoelectric properties of Ga and In Co-added CoSb ₃ -based skutterudites with optimized chemical composition and microstructure. <i>AIP Advances</i> , 2016 , 6, 125015	1.5	12
94	Physical properties of core-concrete systems: Al ₂ O ₃ -ZrO ₂ molten materials measured by aerodynamic levitation. <i>Journal of Nuclear Materials</i> , 2017 , 487, 121-127	3.3	10
93	Thermoelectric properties of Si-NiSi ₂ bulk nanocomposites synthesized by a combined method of melt spinning and spark plasma sintering. <i>Journal of Applied Physics</i> , 2017 , 121, 225110	2.5	10
92	Thermoelectric properties of Si/CoSi ₂ sub-micrometer composites prepared by melt-spinning technique. <i>Journal of Applied Physics</i> , 2017 , 121, 205107	2.5	10
91	Effect of Ball-Milling Conditions on Thermoelectric Properties of Polycrystalline CuGaTe ₂ . <i>Materials Transactions</i> , 2014 , 55, 1215-1218	1.3	10
90	High-temperature thermoelectric properties of Cu ₂ In ₄ Te ₇ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 154-156	2.5	10
89	Physical properties of molten core materials: Zr-Ni and Zr-Cr alloys measured by electrostatic levitation. <i>Journal of Nuclear Materials</i> , 2017 , 485, 129-136	3.3	9
88	Effect of hydrogenation conditions on the microstructure and mechanical properties of zirconium hydride. <i>Journal of Nuclear Materials</i> , 2018 , 500, 145-152	3.3	9
87	Effect of point and planar defects on thermal conductivity of TiO ₂ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 334-346	3.8	9
86	Thermoelectric properties of Tl-filled Co-free p-type skutterudites: Tlx(Fe,Ni) ₄ Sb ₁₂ . <i>Journal of Applied Physics</i> , 2014 , 115, 023702	2.5	9
85	How thermoelectric properties of p-type Tl-filled skutterudites are improved. <i>APL Materials</i> , 2013 , 1, 032115	5.7	9

84	Effect of Ba concentration on phase stability and mechanical and thermal properties of La ₂ Mo ₂ O ₉ . <i>Journal of the European Ceramic Society</i> , 2017 , 37, 281-288	6	9
83	Metallic-covalent bonding conversion in boron icosahedral cluster solids studied using electron localizability indicator. <i>Journal of Physics: Conference Series</i> , 2009 , 176, 012027	0.3	9
82	Carrier Transport Properties of p-Type Silicon Metal Silicide Nanocrystal Composite Films. <i>Journal of Electronic Materials</i> , 2015 , 44, 2074-2079	1.9	8
81	Thermoelectric properties of Au nanoparticle-supported Sb _{1.6} Bi _{0.4} Te ₃ synthesized by a γ-ray irradiation method. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 162-167	1.3	8
80	Thermophysical properties of molten core materials: Zr-Fe alloys measured by electrostatic levitation. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 1943-1950	1	8
79	Thermal and Mechanical Properties of FeMoSi ₂ as a High-Temperature Material. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700448	1.3	7
78	Mechanical and Thermal Properties of Fe ₂ B. <i>Transactions of the Atomic Energy Society of Japan</i> , 2016 , 15, 223-228	0.1	7
77	Thermoelectric Properties of Co- and Mn-Doped Al ₂ Fe ₃ Si ₃ . <i>Journal of Electronic Materials</i> , 2019 , 48, 475-482	1.9	7
76	High thermoelectric power factor of ytterbium silicon-germanium. <i>Applied Physics Letters</i> , 2018 , 113, 193901	3.4	7
75	Thermoelectric properties of Si/SiB ₃ sub-micro composite prepared by melt-spinning technique. <i>Journal of Applied Physics</i> , 2015 , 118, 065103	2.5	6
74	Synthesis and thermal conductivity of Y ₆ UO ₁₂ . <i>Journal of Nuclear Science and Technology</i> , 2012 , 49, 526-530		6
73	Thermoelectric properties and microstructures of AgSbTe ₂ -added p-type Pb _{0.16} Ge _{0.84} Te. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 167-170	1.6	6
72	Characterization and thermomechanical properties of Ln ₂ Zr ₂ O ₇ (Ln=La, Pr, Nd, Eu, Gd, Dy) and Nd ₂ Ce ₂ O ₇ . <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1514, 139-144		6
71	Thermoelectric properties of Zn-Sn-Sb based alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1314, 1		6
70	Energy barrier of structure transition from icosahedral B ₁₂ H ₆ +to planar B ₁₂ H ₅ +and B ₁₂ H ₄ +clusters. <i>Journal of Physics: Conference Series</i> , 2009 , 176, 012030	0.3	6
69	Thermophysical and mechanical properties of CrB and FeB. <i>Journal of Nuclear Science and Technology</i> , 2019 , 56, 859-865	1	5
68	Thermoelectric Properties of Cr _{1-x} W _x Si ₂ . <i>Materials Transactions</i> , 2016 , 57, 1059-1065	1.3	5
67	Reduction of lattice thermal conductivity of pseudogap intermetallic compound Al ₃ V. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 469-472	1.3	5

66	Bi-doped lanthanum molybdate: Enhancing the anharmonicity and reducing the thermal conductivity using Bi ³⁺ with lone pair electrons. <i>Ceramics International</i> , 2018 , 44, 15833-15838	5.1	5
65	Carrier and heat transport properties of poly-crystalline GeSn films for thin-film transistor applications. <i>Journal of Applied Physics</i> , 2019 , 126, 145105	2.5	5
64	High wettability of liquid caesium iodine with solid uranium dioxide. <i>Scientific Reports</i> , 2017 , 7, 11449	4.9	5
63	Enhancement of thermoelectric efficiency of CoSb ₃ -based skutterudites by double filling with K and Tl. <i>Frontiers in Chemistry</i> , 2014 , 2, 84	5	5
62	Thermophysical properties of molten Zr _{1-x} O _x (x=0.1, 0.2) measured by electrostatic levitation. <i>Journal of Nuclear Materials</i> , 2020 , 528, 151873	3.3	5
61	Thermoelectric Properties of (100) Oriented Silicon and Nickel Silicide Nanocomposite Films Grown on Si on Insulator and Si on Quartz Glass Substrates. <i>Materials Transactions</i> , 2016 , 57, 1076-1081	1.3	5
60	Thermoelectric Properties of p-Type Half-Heusler Compounds FeNb _{0.9} M _{0.1} Sb (M = Ti, Zr, Hf). <i>Materials Transactions</i> , 2018 , 59, 1030-1034	1.3	5
59	Thermal and Electrical Conductivity of Liquid AlBi Alloys. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	4
58	Thermal conductivity and electrical resistivity of liquid AgIn alloy. <i>Journal of Nuclear Science and Technology</i> , 2018 , 55, 568-574	1	4
57	Wettability of liquid caesium iodine and boron oxide on yttria-stabilized zirconia. <i>Journal of Nuclear Science and Technology</i> , 2018 , 55, 838-842	1	4
56	Naturally decorated dislocations capable of enhancing multiple-phonon scattering in Si-based thermoelectric composites. <i>Journal of Applied Physics</i> , 2018 , 123, 115114	2.5	4
55	Effect of Cooling Conditions on the Microstructure and Thermoelectric Properties of Zn/Si-Codoped InSb. <i>Journal of Electronic Materials</i> , 2013 , 42, 2388-2392	1.9	4
54	Synthesis and Characterization of Melt-Spun Metastable Al ₆ Ge ₅ . <i>Journal of Electronic Materials</i> , 2015 , 44, 948-952	1.9	4
53	Enhancement of thermoelectric properties of p-type single-filled skutterudites CexFeyCo _{4-y} Sb ₁₂ by tuning the Ce and Fe content. <i>AIP Advances</i> , 2018 , 8, 105104	1.5	4
52	Synthesis of High-Density Bulk Tin Monoxide and Its Thermoelectric Properties. <i>Materials Transactions</i> , 2018 , 59, 1022-1029	1.3	4
51	Thermoelectric Properties of p-Type Tl-Filled Skutterudites: Tl _x Fe _{1.5} Co _{2.5} Sb ₁₂ . <i>Journal of Electronic Materials</i> , 2015 , 44, 1743-1749	1.9	3
50	Mechanical and thermal properties of Zr-B and Fe-B alloys. <i>Journal of Nuclear Science and Technology</i> , 2020 , 57, 917-925	1	3
49	Biosynthesis of bismuth selenide nanoparticles using chalcogen-metabolizing bacteria. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 8853-8861	5.7	3

48	Thermoelectric Properties of Group 13 Elements-Triple Filled Skutterudites: Nominal In _x Ga _{0.02} Tl _{0.20} Co ₄ Sb ₁₂ . <i>Materials Transactions</i> , 2014 , 55, 1232-1236	1.3	3
47	Properties of Cold-Pressed Metal Hydride Materials for Neutron Shielding in a DIII Fusion Reactor. <i>Plasma and Fusion Research</i> , 2015 , 10, 3405021-3405021	0.5	3
46	Thermoelectric Properties of In _x FeCo ₃ Sb ₁₂ Consisting Mainly of In-Filled p-Type Skutterudites. <i>Materials Transactions</i> , 2017 , 58, 1207-1211	1.3	3
45	Enhancement of Thermoelectric Properties of n-Type Bi ₂ Te _{3-x} Sex by Energy Filtering Effect. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11819-11826	6.1	3
44	Thermal and mechanical properties of U ₃ Si and U ₃ Si ₃ . <i>Annals of Nuclear Energy</i> , 2019 , 133, 186-193	1.7	2
43	Isotope effect and hydrogen content dependence on the heat capacity and thermal conductivity of zirconium hydride and deuteride. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 508-512	1	2
42	Nanostructuring and Thermoelectric Characterization of (GaSb) ₃ (1-x)(Ga ₂ Te ₃) _x . <i>Journal of Electronic Materials</i> , 2013 , 42, 1719-1724	1.9	2
41	Thermal Conductivity and Electrical Resistivity of Liquid Sn-Bi Alloys. <i>Netsu Bussei</i> , 2017 , 31, 11-16	0.1	2
40	Microstructure and Thermal Conductivity of RuAl ₂ Prepared by a Single-Roll Melt-Spinning Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 573-576	0.4	2
39	Effect of Cu Doping into the Ga Site on the Thermoelectric Properties of AgGaTe ₂ with Chalcopyrite Structure. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2012 , 59, 206-209	0.2	2
38	Thermodynamic Equilibrium Calculations on the Oxidation Behavior of the Mo-Ru-Rh-Pd Alloys. <i>Transactions of the Atomic Energy Society of Japan</i> , 2012 , 11, 30-36	0.1	2
37	Thermal and Mechanical Properties of Fe ₂ Zr. <i>Transactions of the Atomic Energy Society of Japan</i> , 2019 , 18, 37-42	0.1	2
36	Novel Method for Surface Tension Measurement: the Drop-Bounce Method. <i>Microgravity Science and Technology</i> , 2021 , 33, 1	1.6	2
35	Role of Nanoscale Precipitates for Enhancement of Thermoelectric Properties of Heavily P-Doped Si-Ge Alloys. <i>Materials Transactions</i> , 2016 , 57, 1070-1075	1.3	2
34	Fabrication and Thermoelectric Property of Bi _{0.88} Sb _{0.12} /InSb Eutectic Alloy by Melt Spinning and Spark Plasma Sintering. <i>Materials Transactions</i> , 2019 , 60, 1072-1077	1.3	2
33	Enhanced Thermoelectric Properties of Ga and Ce Double-Filled p-Type Skutterudites. <i>Materials Transactions</i> , 2019 , 60, 1078-1082	1.3	2
32	Realizing Excellent n- and p-Type Niobium-Based Half-Heusler Compounds Based on Thermoelectric Properties and High-Temperature Stability. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000083	6.4	2
31	Thermal and mechanical properties of hydrides of ZrHf alloys. <i>Journal of Nuclear Science and Technology</i> , 2015 , 52, 162-170	1	1

30	Droplet impingement method to measure the surface tension of molten zirconium oxide. <i>Journal of Nuclear Science and Technology</i> , 2020 , 57, 889-897	1	1
29	Low temperature heat capacity of Cs ₂ Si ₄ O ₉ . <i>Journal of Nuclear Science and Technology</i> , 2020 , 57, 852-857		1
28	Enhancement of Thermoelectric Properties of Silicon by Nanoscale Structure Control. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 569-572	0.4	1
27	Thermal Conductivity of β -FeSi ₂ -Si Self-Assembled Nanocomposite. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 586-590	0.4	1
26	Effects of Hf on Thermal and Mechanical Properties of Zr Hydrides. <i>Transactions of the Atomic Energy Society of Japan</i> , 2013 , 12, 67-75	0.1	1
25	Wettability of Liquid Cesium Halides on Oxide Single Crystals. <i>Transactions of the Atomic Energy Society of Japan</i> , 2019 , 18, 1-5	0.1	1
24	Experimental study of the thermoelectric properties of YbH ₂ . <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153496	5.7	1
23	Enhancement of Thermoelectric Figure of Merit of p-Type Nb _{0.9} Ti _{0.1} FeSb Half-Heusler Compound by Nanostructuring. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000419	1.6	1
22	Multiple-gas cooling method for constant-pressure heat capacity measurement of liquid metals using aerodynamic levitator. <i>Review of Scientific Instruments</i> , 2021 , 92, 095102	1.7	1
21	Thermophysical Properties of Liquid AlCu Alloys. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	0
20	Electronic Structure and Thermoelectric Properties of Pseudogap Intermetallic Compound Al ₅ Co ₂ . <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2017 , 81, 55-59	0.4	0
19	Hydrogen detachment from B ₁₂ H _n ⁺ clusters by kinetic energy. <i>Transactions of the Materials Research Society of Japan</i> , 2010 , 35, 533-536	0.2	0
18	Large Anharmonicity and Low Lattice Thermal Conductivity of Thermoelectric Sn(SbTe ₂) ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2100482	2.5	0
17	Synthesis and characterization of bulk Si ₃ Si nanocomposite and comparisons of approaches for enhanced thermoelectric properties in nanocomposites composed of Si and various metal silicides. <i>Journal of Applied Physics</i> , 2020 , 128, 095101	2.5	0
16	Mechanical properties and thermal conductivity of (U,Zr)SiO ₄ . <i>Journal of Nuclear Materials</i> , 2021 , 556, 153160	3.3	0
15	Heat capacity of liquid transition metals obtained with aerodynamic levitation. <i>Journal of Chemical Thermodynamics</i> , 2022 , 171, 106801	2.9	0
14	Self-Assembled Nanostructured Bulk Si as High-Performance TE Materials 2019 , 35-77		
13	Beneficial influence of iodine substitution on the thermoelectric properties of Mo ₃ Sb ₇ . <i>Journal of Applied Physics</i> , 2020 , 127, 105101	2.5	

- 12 Synthesis and Characterization of CeO₂-Based Simulated Fuel Containing CsI. *Transactions of the Atomic Energy Society of Japan*, **2018**, 17, 106-110 0.1
- 11 The α/β phase transition in hafnium hydride and deuteride. *Journal of Nuclear Science and Technology*, **2014**, 1-5 1
- 10 Phase State and Thermal and Mechanical Properties of Zr-Er Alloys. *Transactions of the Atomic Energy Society of Japan*, **2015**, 14, 123-127 0.1
- 9 Phase State and Physical Properties of the Mo-Ru-Ph-Pd Alloys. *Materials Research Society Symposia Proceedings*, **2011**, 1298, 41
- 8 Ionization of decaborane with controlled hydrogen content by charge transfer from ambient gas. *Materials Research Society Symposia Proceedings*, **2011**, 1307, 1
- 7 Reduction in Lattice Thermal Conductivity of InSb by Formation of the ZnIn₁₈GeSb₂₀ Alloy. *Materials Transactions*, **2012**, 53, 1976-1980 1.3
- 6 Thermophysical properties of molten FeO_{1.5}, (FeO_{1.5})_{0.86}(ZrO₂)_{0.14} and (FeO_{1.5})_{0.86}(UO₂)_{0.14}. *Journal of Nuclear Science and Technology*, 1-10 1
- 5 Interaction of Liquid CsI₃ with a Polycrystalline UO₂ Solid Surface. *Transactions of the Atomic Energy Society of Japan*, **2020**, 19, 147-151 0.1
- 4 Measurement of Doppler broadening of prompt gamma-rays from various zirconium- and ferro-borons. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 991, 164964 1.2
- 3 Controlled thermal expansion and thermoelectric properties of Mg₂Si/Si composites. *Journal of Applied Physics*, **2021**, 130, 035105 2.5
- 2 Stability and bonding nature for icosahedral or planar cluster of hydrogenated boron or aluminum. *AIP Advances*, **2019**, 9, 115117 1.5
- 1 Tuning valence electron concentration in the Mo₁₃Ge₂₃-Ru₂Ge₃ pseudobinary system for enhancement of the thermoelectric properties. *Journal of Applied Physics*, **2019**, 125, 025108 2.5