

Michihiro Ohta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

2,223

citations

25

h-index

46

g-index

97

ext. papers

2,654

ext. citations

6.2

avg, IF

5.22

L-index

#	Paper	IF	Citations
88	A prototype thermoelectric module based on p-type colusite together with n-type nanostructured PbTe for power generation. <i>Applied Physics Letters</i> , 2022 , 120, 013501	3.4	3
87	Cu β -based thermoelectric compounds with a sphalerite-derived disordered crystal structure. <i>Journal of Solid State Chemistry</i> , 2022 , 309, 122960	3.3	0
86	Key Role of d0 and d10 Cations for the Design of Semiconducting Colusites: Large Thermoelectric ZT in Cu ₂₆ Ti ₂ Sb ₆ S ₃₂ Compounds. <i>Chemistry of Materials</i> , 2021 , 33, 3449-3456	9.6	7
85	Synergistic Effect of Chemical Substitution and Insertion on the Thermoelectric Performance of CuVGeS Colusite. <i>Inorganic Chemistry</i> , 2021 , 60, 11364-11373	5.1	2
84	Materials development and module fabrication in highly efficient lead tellurides 2021 , 247-267		
83	Synthetic minerals tetrahedrites and colusites for thermoelectric power generation 2021 , 197-216		1
82	A comparative study of thermoelectric Cu ₂ TrTi ₃ S ₈ (Tr = Co and Sc) thiospinels: Enhanced Seebeck coefficient via electronic structure modification. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159548	5.7	1
81	Fabrication and Evaluation of Low-Cost CrSi ₂ Thermoelectric Legs. <i>Crystals</i> , 2021 , 11, 1140	2.3	2
80	Effect of Gallium Substitution in Cu ₃ Al _{1-x} Ga _x Sn ₅ Nanobulk Materials on Thermoelectric Properties. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5784-5791	6.1	2
79	Enhancing the Thermoelectric Properties of Misfit Layered Sulfides (MS) (NbS) (M = Gd and Dy) through Structural Evolution and Compositional Tuning. <i>ACS Omega</i> , 2020 , 5, 13006-13013	3.9	3
78	Structural stability enables high thermoelectric performance in room temperature Ag ₂ Se. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13024-13037	13	39
77	Enhancement of the thermoelectric power factor by tuning the carrier concentration in Cu-rich and Ge-poor colusites Cu _{26+x} Nb ₂ Ge _{6-x} S ₃₂ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6442-6449	7.1	3
76	Mechanically durable thermoelectric power generation module made of Ni-based alloy as a reference for reliable testing. <i>Applied Energy</i> , 2020 , 260, 114443	10.7	3
75	Temperature-Dependent Structural Variation and Cu Substitution in Thermoelectric Silver Selenide. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2160-2167	6.1	11
74	Morphology and the Thermoelectric Properties of (Gd _x Dy _{1-x}) _{1.5} Solid Solution Ceramics. <i>Physics of the Solid State</i> , 2020 , 62, 611-620	0.8	2
73	Disorder-driven glasslike thermal conductivity in colusite Cu ₂₆ V ₂ Sn ₆ S ₃₂ investigated by Mössbauer spectroscopy and inelastic neutron scattering. <i>Physical Review Materials</i> , 2020 , 4,	3.2	15
72	 γ -Gd _{1-x} Dy _{1-x} S _{1.5-y} . <i>Physics of the Solid State</i> , 2020 , 62, 537	0	

71	Na Doping in PbTe: Solubility, Band Convergence, Phase Boundary Mapping, and Thermoelectric Properties. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15464-15475	16.4	46
70	Thermoelectric properties of paracostibite fabricated using chemically synthesized Co ₃ Bi ₂ S ₅ nanoparticles as building blocks. <i>AIP Advances</i> , 2020 , 10, 075021	1.5	1
69	Interlaboratory Testing for High-Temperature Power Generation Characteristics of a Ni-Based Alloy Thermoelectric Module. <i>Energy Technology</i> , 2020 , 8, 2000557	3.5	1
68	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
67	Nanobulk Thermoelectric Materials Fabricated from Chemically Synthesized CuZn Al SnS Nanocrystals. <i>ACS Omega</i> , 2019 , 4, 16402-16408	3.9	4
66	High thermoelectric performance in low-cost SnS ₂ crystals. <i>Science</i> , 2019 , 365, 1418-1424	33.3	233
65	Atomic-scale phonon scatterers in thermoelectric colusites with a tetrahedral framework structure. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 228-235	13	32
64	Power generation from the Cu ₂₆ Nb ₂ Ge ₆ S ₃₂ -based single thermoelectric element with Au diffusion barrier. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5184-5192	7.1	22
63	Thermoelectric power generation: from new materials to devices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180450	3	70
62	Thermoelectrics: An Integrated Approach to Thermoelectrics: Combining Phonon Dynamics, Nanoengineering, Novel Materials Development, Module Fabrication, and Metrology (Adv. Energy Mater. 23/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970088	21.8	
61	Gram-Scale Synthesis of Tetrahedrite Nanoparticles and Their Thermoelectric Properties. <i>Langmuir</i> , 2019 , 35, 16335-16340	4	5
60	Colloid Chemical Approach for Fabricating Cu ₂ FeS ₃ Nanobulk Thermoelectric Materials by Blending Cu ₂ S and FeS Nanoparticles as Building Blocks. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3688-3697	3.9	4
59	Thermoelectric Properties and Electronic Structures of CuTiS Thiospinel and Its Derivatives: Structural Design for Spinel-Related Thermoelectric Materials. <i>Inorganic Chemistry</i> , 2019 , 58, 1425-1432	5.1	18
58	An Integrated Approach to Thermoelectrics: Combining Phonon Dynamics, Nanoengineering, Novel Materials Development, Module Fabrication, and Metrology. <i>Advanced Energy Materials</i> , 2019 , 9, 1801304	21.8	20
57	Carrier concentration tuning in thermoelectric thiospinel Cu ₂ CoTi ₃ S ₈ by oxidative extraction of copper. <i>Journal of Solid State Chemistry</i> , 2018 , 259, 5-10	3.3	12
56	High-Performance Thermoelectric Bulk Colusite by Process Controlled Structural Disorder. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2186-2195	16.4	70
55	Enhancement of the Thermoelectric Figure of Merit in Blended Cu ₂ Sn _{1-x} Zn _x S ₃ Nanobulk Materials. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4819-4827	5.6	10
54	Addition of Co, Ni, Fe and their role in the thermoelectric properties of colusite Cu ₂₆ Nb ₂ Ge ₆ S ₃₂ . <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1838-1845	5.7	11

53	Excessively Doped PbTe with Ge-Induced Nanostructures Enables High-Efficiency Thermoelectric Modules. <i>Joule</i> , 2018 , 2, 1339-1355	27.8	109
52	Increased Seebeck Coefficient and Decreased Lattice Thermal Conductivity in Grain-Size-Controlled p-Type PbTeMgTe System. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6586-6592	6.1	8
51	Effects of Ge and Sn substitution on the metal-semiconductor transition and thermoelectric properties of CuSbS tetrahedrite. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8874-8879	3.6	32
50	Enhancement in the thermoelectric performance of colusites Cu ₂₆ A ₂ E ₆ S ₃₂ (A = Nb, Ta; E = Sn, Ge) using E-site non-stoichiometry. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4174-4184	7.1	33
49	High performance thermoelectrics for power generation using earth-abundant and low toxicity elements. <i>Synthesiology</i> , 2017 , 10, 63-74	0.2	1
48	High performance thermoelectrics for power generation using earth-abundant and low toxicity elements. <i>Synthesiology</i> , 2017 , 10, 62-74	0.1	
47	Sustainable thermoelectric materials fabricated by using Cu ₂ Sn _{1-x} Zn _x S ₃ nanoparticles as building blocks. <i>Applied Physics Letters</i> , 2017 , 111, 263105	3.4	12
46	Effect of sulfur substitution on the thermoelectric properties of (SnSe) _{1.16} NbSe ₂ : charge transfer in a misfit layered structure. <i>RSC Advances</i> , 2016 , 6, 105653-105660	3.7	9
45	Power generation from nanostructured PbTe-based thermoelectrics: comprehensive development from materials to modules. <i>Energy and Environmental Science</i> , 2016 , 9, 517-529	35.4	215
44	Tuning the charge carrier density in the thermoelectric colusite. <i>Journal of Applied Physics</i> , 2016 , 119, 175105	2.5	26
43	High power factor in thiospinels Cu ₂ TrTi ₃ S ₈ (Tr= Mn, Fe, Co, Ni) arising from TiS ₆ octahedron network. <i>Applied Physics Letters</i> , 2016 , 109, 182110	3.4	17
42	Vanadium-free colusites Cu ₂₆ A ₂ Sn ₆ S ₃₂ (A = Nb, Ta) for environmentally friendly thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15207-15214	13	46
41	Power Generation Evaluated on a Bismuth Telluride Unicouple Module. <i>Journal of Electronic Materials</i> , 2015 , 44, 1785-1790	1.9	28
40	Three-Dimensional Finite-Element Simulation for a Thermoelectric Generator Module. <i>Journal of Electronic Materials</i> , 2015 , 44, 3637-3645	1.9	24
39	Measurement and simulation of thermoelectric efficiency for single leg. <i>Review of Scientific Instruments</i> , 2015 , 86, 045103	1.7	24
38	Hierarchical Architecturing for Layered Thermoelectric Sulfides and Chalcogenides. <i>Materials</i> , 2015 , 8, 1124-1149	3.5	56
37	Nanostructural and Microstructural Ordering and Thermoelectric Property Tuning in Misfit Layered Sulfide [(LaS) _x] _{1.14} NbS ₂ . <i>Chemistry of Materials</i> , 2015 , 27, 7719-7728	9.6	21
36	Enhanced average thermoelectric figure of merit of n-type PbTe _{1-x} MgTe. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10401-10408	7.1	57

35	Hierarchical Structures for High-Performance Chalcogenides: From Tellurides to Sulfides. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 538-547	0.4	
34	Synthetic Copper-based Sulfide Minerals as Advanced Thermoelectric Materials and the Modularization for Power Generation. <i>Materia Japan</i> , 2015 , 54, 335-338	0.1	2
33	Microstructural Control and Thermoelectric Properties of Misfit Layered Sulfides (LaS) _{1+m} TS ₂ (T = Cr, Nb): The Natural Superlattice Systems. <i>Chemistry of Materials</i> , 2014 , 26, 2684-2692	9.6	34
32	Low lattice thermal conductivity in Pb ₅ Bi ₆ Se ₁₄ , Pb ₃ Bi ₂ S ₆ , and PbBi ₂ S ₄ : promising thermoelectric materials in the cannizzarite, lillianite, and galenobismuthite homologous series. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20048-20058	13	44
31	High-performance thermoelectric minerals: Colusites Cu ₂ V ₂ M ₆ S ₃₂ (M = Ge, Sn). <i>Applied Physics Letters</i> , 2014 , 105, 132107	3.4	92
30	High-performance thermoelectric mineral Cu ₁₂ Ni _x Sb ₄ S ₁₃ tetrahedrite. <i>Journal of Applied Physics</i> , 2013 , 113, 043712	2.5	222
29	Thermoelectric Materials: Enhancement of Thermoelectric Figure of Merit by the Insertion of MgTe Nanostructures in p-type PbTe Doped with Na ₂ Te (Adv. Energy Mater. 9/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 1038-1038	21.8	2
28	Thermoelectric properties of prepared by CS ₂ sulfurization. <i>Acta Materialia</i> , 2012 , 60, 7232-7240	8.4	60
27	Enhancement of Thermoelectric Figure of Merit by the Insertion of MgTe Nanostructures in p-type PbTe Doped with Na ₂ Te. <i>Advanced Energy Materials</i> , 2012 , 2, 1117-1123	21.8	104
26	Thermoelectric Properties of Selenospinel Cu ₆ Fe ₄ Sn ₁₂ Se ₃₂ . <i>Journal of Electronic Materials</i> , 2012 , 41, 1130-1133	1.9	4
25	Preparation of Single-Phase Pb-Filled Chevrel-Phase Sulfide and Its Thermoelectric Properties. <i>Materials Transactions</i> , 2011 , 52, 1535-1538	1.3	3
24	Preparation and Thermoelectric Properties of LaGd _{1+x} S ₃ and SmGd _{1+x} S ₃ . <i>Journal of Electronic Materials</i> , 2011 , 40, 537-542	1.9	16
23	Low-Temperature Formation of Cubic Th ₃ P ₄ -type Gadolinium and Holmium Sesquisulfides. <i>Journal of MMIJ</i> , 2010 , 126, 450-455	0.3	3
22	Microstructure and Thermoelectric Properties of Al-Doped ZnO Sintered Body. <i>Materials Science Forum</i> , 2010 , 638-642, 2172-2177	0.4	
21	Synthesis of LnCuS ₂ (Ln=Ce, Pr, Nd, Sm, Gd, and Tb) Powder by Polymerized Complex Method and CS ₂ Gas Sulfurization. <i>Materials Transactions</i> , 2010 , 51, 2289-2293	1.3	6
20	Development of High Efficiency Thermoelectric Sulfides. <i>Materia Japan</i> , 2010 , 49, 477-481	0.1	2
19	Thermoelectric Properties of Chevrel-Phase Sulfides M _x Mo ₆ S ₈ (M: Cr, Mn, Fe, Ni). <i>Journal of Electronic Materials</i> , 2010 , 39, 2117-2121	1.9	16
18	Thermoelectric Properties of NdGd _{1+x} S ₃ Prepared by CS ₂ Sulfurization. <i>Journal of Electronic Materials</i> , 2009 , 38, 1287-1292	1.9	14

17	Synthesis of multinary rare-earth sulfides PrGdS ₃ , NdGdS ₃ , and SmEuGdS ₄ , and investigation of their thermoelectric properties. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 268-272	5.7	6
16	Thermoelectric Properties of Bi ₂ Te ₃ -Based Thin Films with Fine Grains Fabricated by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 085506	1.4	29
15	Thermoelectric Properties of Ternary Rare-Earth Copper Antimonides LaCu _x Sb ₂ (0.9 ≤ x ≤ 1.3). <i>Materials Transactions</i> , 2009 , 50, 1881-1884	1.3	1
14	Thermal Decomposition of NH ₄ SCN for Preparation of Ln ₂ S ₃ (Ln=La and Gd) by Sulfurization. <i>Materials Transactions</i> , 2009 , 50, 1885-1889	1.3	34
13	Preparation and Thermoelectric Properties of Chevrel-Phase Cu _x Mo ₆ S ₈ (2.0 ≤ x ≤ 4.0). <i>Materials Transactions</i> , 2009 , 50, 2129-2133	1.3	33
12	Thermoelectric properties of Th ₃ P ₄ -type rare-earth sulfides Ln ₂ S ₃ (Ln = Gd, Tb) prepared by reaction of their oxides with CS ₂ gas. <i>Journal of Alloys and Compounds</i> , 2008 , 451, 627-631	5.7	15
11	Pulsed Laser Deposition of Titanium Sulfide Films from TiS ₂ Target under CS ₂ Pressure and their Thermoelectric Properties. <i>Journal of MMIJ</i> , 2008 , 124, 648-652	0.3	
10	DETECTION OF DUPPLICATE INFORMATION IN A LARGE SOIL DRILLING LOG DATABASE. <i>Geoinformatics</i> , 2007 , 18, 55-59	0.1	
9	Phase transformation and microstructures of Ln ₂ S ₃ (Ln = La, Sm) with different impurities content of oxygen and carbon. <i>Journal of Alloys and Compounds</i> , 2006 , 408-412, 551-555	5.7	15
8	Effect of non-stoichiometry on thermoelectric properties of -Tb ₂ S ₃ . <i>Journal of Alloys and Compounds</i> , 2006 , 418, 209-212	5.7	14
7	Synthesis of La ₂ S ₃ Thin Films by Sulfurization of LaCl ₃ and CS(NH ₂) ₂ . <i>Materials Transactions</i> , 2006 , 47, 1436-1439	1.3	1
6	Thermoelectric properties of lanthanum sesquisulfide with Ti additive. <i>Applied Physics Letters</i> , 2005 , 87, 042106	3.4	2
5	Preparation of R ₂ S ₃ (R: La, Pr, Nd, Sm) powders by sulfurization of oxide powders using CS ₂ gas. <i>Journal of Alloys and Compounds</i> , 2004 , 374, 112-115	5.7	39
4	Phase transformation from tetragonal-phase to cubic-phase due to addition of titanium in lanthanum sesquisulfide. <i>Journal of Alloys and Compounds</i> , 2004 , 374, 116-119	5.7	12
3	Localized relaxation in stabilized zirconia. <i>Physica B: Condensed Matter</i> , 2002 , 316-317, 427-429	2.8	9
2	Influence of dopant ion on localized relaxation of an oxygen vacancy in stabilized zirconia. <i>Physical Review B</i> , 2002 , 65,	3.3	6
1	Internal Friction Due to Localized Relaxation around Y-ions in Single Crystal Yttria-Stabilized Zirconia. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 5377-5381	1.4	5