

Yang-Yuan Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Modulation Doping Enables Ultrahigh Power Factor and Thermoelectric ZT in $\text{Bi}_{2-x}\text{Te}_{2+x}\text{Se}_{0.3}$. <i>Advanced Science</i> , 2022, 9, e2201353.	5.6	19
2	Absence of superconductivity in micrometer-sized NbN single crystals. <i>Physical Review B</i> , 2022, 105, .	1.1	2
3	Tailoring InSb Nanowires for High Thermoelectric Performance Using AAO Template-Assisted Die Casting Process. <i>Nanomaterials</i> , 2022, 12, 2032.	1.9	3
4	Anisotropic elasticity drives negative thermal expansion in monocrystalline SnSe. <i>Physical Review B</i> , 2021, 103, .	1.1	11
5	Thermoelectric Characteristics of A Single-Crystalline Topological Insulator Bi_2Se_3 Nanowire. <i>Nanomaterials</i> , 2021, 11, 819.	1.9	15
6	Size effect on multiferroicity of GdMn_2O_5 nanorods. <i>Chinese Journal of Physics</i> , 2021, 70, 336-342.	2.0	0
7	Pressure induced superconductivity in MnSe. <i>Nature Communications</i> , 2021, 12, 5436.	5.8	19
8	Extremely space- and time-limited phonon propagation from electron-lattice scattering induced by Sb/Bi codoping in $\text{Ge}_{0.9}\text{Mn}_{0.2}\text{Sb}_{0.86}\text{Te}$ single crystal. <i>Physical Review Materials</i> , 2021, 5, .	0.9	2
9	Interfacial Stability in Bi_2Te_3 Thermoelectric Joints. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27001-27009.	4.0	34
10	Enhancing thermoelectric performance by Fermi level tuning and thermal conductivity degradation in $(\text{Ge}_{1-x}\text{Bi}_x)\text{Te}$ crystals. <i>Scientific Reports</i> , 2019, 9, 8616.	1.6	39
11	Zero Cu valence and superconductivity in high-quality $\text{Cu}_x\text{Bi}_{1-x}\text{Sb}_2\text{S}_7$. <i>Physical Review B</i> , 2019, 100, 020407.	1.1	5
12	Thermoelectric Figure-of-Merit of Fully Dense Single-Crystalline SnSe. <i>ACS Omega</i> , 2019, 4, 5442-5450.	1.6	40
13	Origin of Band Modulation in GeTe-Rich $\text{Ge}_{1-x}\text{Sb}_x\text{Te}$ Thin Film. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2619-2625.	2.0	3
14	Phonon anharmonicity in single-crystalline SnSe. <i>Physical Review B</i> , 2018, 98, .	1.1	76
15	Room Temperature Resonant Ultrasound Spectroscopy of Single Crystalline SnSe. <i>ACS Applied Energy Materials</i> , 2018, 1, 6123-6128.	2.5	21
16	Controlling of Structural Ordering and Rigidity of $\text{I}^2\text{-SiAlON:Eu}$ through Chemical Cosubstitution to Approach Narrow-Band-Emission for Light-Emitting Diodes Application. <i>Chemistry of Materials</i> , 2017, 29, 6781-6792.	3.2	57
17	Facile chemical synthesis and enhanced thermoelectric properties of Ag doped SnSe nanocrystals. <i>RSC Advances</i> , 2017, 7, 34300-34306.	1.7	24
18	A strategy to optimize the thermoelectric performance in a spark plasma sintering process. <i>Scientific Reports</i> , 2016, 6, 23143.	1.6	35

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19	Effect of composition and annealing on electrodeposited Co _x Pt _{1-x} nanowires. AIP Conference Proceedings, 2016, , .	0.3	1
20	The effects of Ge doping on the thermoelectric performance of p-type polycrystalline SnSe. RSC Advances, 2016, 6, 114825-114829.	1.7	22
21	In-situ Observation of Size and Irradiation Effects on Thermoelectric Properties of Bi-Sb-Te Nanowire in FIB Trimming. Scientific Reports, 2016, 6, 23672.	1.6	17
22	The intrinsic thermal conductivity of SnSe. Nature, 2016, 539, E1-E2.	13.7	140
23	Thermoelectric Properties of Zintl Phase Compounds of Ca _{1-x} Eu _x Zn ₂ Sb ₂ (0 ≤ x ≤ 1). Journal of Electronic Materials, 2016, 45, 1942-1946.	1.0	27
24	Engineering Nanostructural Routes for Enhancing Thermoelectric Performance: Bulk to Nanoscale. Frontiers in Chemistry, 2015, 3, 63.	1.8	16
25	Photoluminescence and wettability control of NiFe/ZnO heterostructure bilayer films. RSC Advances, 2015, 5, 96705-96713.	1.7	17
26	Bonding and high-temperature reliability of NiFeMo alloy/n-type PbTe joints for thermoelectric module applications. Journal of Materials Science, 2015, 50, 2700-2708.	1.7	25
27	Self-assisted nucleation and growth of [010]-oriented Sb ₂ Se ₃ whiskers: the crystal structure and thermoelectric properties. Journal of Materials Chemistry C, 2015, 3, 10488-10493.	2.7	19
28	Influence of nanoscale Ag ₂ Te precipitates on the thermoelectric properties of the Sn doped P-type AgSbTe ₂ compound. APL Materials, 2014, 2, .	2.2	13
29	Interfacial Reaction Between Nb Foil and n-Type PbTe Thermoelectric Materials During Thermoelectric Contact Fabrication. Journal of Electronic Materials, 2014, 43, 4064-4069.	1.0	27
30	Thermoelectric properties of p-type polycrystalline SnSe doped with Ag. Journal of Materials Chemistry A, 2014, 2, 11171-11176.	5.2	488
31	Structural, electronic transport and magnetoresistance of a 142nm lead telluride nanowire synthesized using stress-induced growth. AIP Advances, 2014, 4, 057111.	0.6	5
32	Influence of In doping on the thermoelectric properties of an AgSbTe ₂ compound with enhanced figure of merit. Journal of Materials Chemistry A, 2014, 2, 2839.	5.2	34
33	Controlled mechanical cleavage of bulk niobium diselenide to nanoscaled sheet, rod, and particle structures for Pt-free dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 11382-11390.	5.2	45
34	Effect of Size on Magnetic Properties of NdMn_2O_5 Nanorods. IEEE Transactions on Magnetics, 2014, 50, 1-3.	1.2	0
35	Remarkable enhancement of magnetization in the superconducting state of In/Ni nanoparticle composites by inhomogeneous spin anti-screening. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	1
36	Stress-induced growth of single-crystalline lead telluride nanowires and their thermoelectric transport properties. Applied Physics Letters, 2013, 103, 023115.	1.5	20

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37	Low Temperature Heat Capacity of Layered Superconductors SrNi ₂ Ge ₂ and SrPd ₂ Ge ₂ . Journal of Low Temperature Physics, 2013, 171, 148-155.	0.6	9
38	High quantity and quality few-layers transition metal disulfide nanosheets from wet-milling exfoliation. RSC Advances, 2013, 3, 13193.	1.7	76
39		1.1	5
40	Enhanced surface mobility and quantum oscillations in topological insulator Bi _{1.5} Sb _{0.5} Te _{1.7} Se _{1.3} nanoflakes. Applied Physics Letters, 2013, 103, .	1.5	21
41	Pressure effects on T _c in superconducting (Tl, Cs) _{1-x} Fe _{2-y} Se ₂ . Journal of Applied Physics, 2013, 113, 153903.	1.1	2
42	Enhanced thermoelectric performance in Bi-doped p-type AgSbTe ₂ compounds. Journal of Applied Physics, 2013, 114, .	1.1	26
43	Co Thickness Effect on the Dielectric Permittivity of SiO ₂ /Co/SiO ₂ Films. IEEE Transactions on Magnetics, 2012, 48, 3936-3939.	1.2	1
44	Thermoelectric Figure of Merit Enhancement in Bi ₂ Te ₃ -Coated Bi Composites. Journal of Electronic Materials, 2012, 41, 2326-2330.	1.0	4
45	Surfactant-Directed Synthesis of Ternary Nanostructures: Nanocubes, Polyhedrons, Octahedrons, and Nanowires of PtNiFe. Their Shape-Dependent Oxygen Reduction Activity. Chemistry of Materials, 2012, 24, 2527-2533.	3.2	53
46	Electrospun Polyvinylpyrrolidone-Based Nanocomposite Fibers Containing (Ni _{0.6} Zn _{0.4})Fe ₂ O ₄ . Journal of Nanotechnology, 2012, 2012, 1-5.	1.5	8
47	Magnetic and Superconducting Properties of Doped and Undoped Double Perovskite Sr ₂ YRuO ₆ . Journal of Superconductivity and Novel Magnetism, 2011, 24, 1249-1262.	0.8	19
48	Magnetic correlations in Ho _x Tb _{2-x} Ti ₂ O ₇ . Physical Review B, 2011, 83, .	1.1	7
49	Microstructure and ordering parameter studies in multilayer [FePt(x)/Os] _n films. Journal of Applied Physics, 2011, 109, 07A732.	1.1	4
50	Magnetic Characterizations of Sol-Gel-Produced Mn-Doped ZnO. Journal of Nanomaterials, 2010, 2010, 1-3.	1.5	4
51	Dielectric constant at x-band microwave frequencies for multiferroic BiFeO ₃ thin films. Journal of Applied Physics, 2009, 105, .	1.1	12
52	Drug-Carrying Magnetic Nanocomposite Particles for Potential Drug Delivery Systems. Journal of Nanotechnology, 2009, 2009, 1-6.	1.5	24
53	Low-Magnetoresistance RuO ₂ /Al ₂ O ₃ Thin-Film Thermometer and its Application. International Journal of Thermophysics, 2009, 30, 316-324.	1.0	3
54	Controlled Growth and Magnetic Property of FePt Nanostructure: Cuboctahedron, Octapod, Truncated Cube, and Cube. Chemistry of Materials, 2009, 21, 4955-4961.	3.2	93

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55	Size-Controlled Ferromagnetism in Capped CdSe Quantum Dots. <i>Advanced Materials</i> , 2008, 20, 1656-1660.	11.1	57
56	Electrical and thermal transport in single nickel nanowire. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	110
57	Probing quantum confinement of single-walled carbon nanotubes by resonant soft-x-ray emission spectroscopy. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	12
58	Kondo Interactions and Magnetic Correlations in CePt ₂ Nanocrystals. <i>Physical Review Letters</i> , 2007, 98, 157206.	2.9	12
59	Thermal and electrical transport properties of a single nickel nanowire. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4512-4517.	0.7	20
60	Magnetic and electronic properties of CeCo ₂ studied by synchrotron radiation. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4526-4529.	0.7	3
61	Size-dependent lattice structure of palladium studied by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2007, 75, .	1.1	50
62	Superconductivity in KMnO ₄ -treated Na _x K _z (H ₂ O) _y CoO ₂ . <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
63	Magnetic and Spin-glass-like Behavior of CrO ₂ Nanoparticles. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
64	Critical exponents of the La _{0.7} Sr _{0.3} MnO ₃ , La _{0.7} Ca _{0.3} MnO ₃ , and Pr _{0.7} Ca _{0.3} MnO ₃ systems showing correlation between transport and magnetic properties. <i>Journal of Applied Physics</i> , 2005, 98, 103903.	1.1	81
65	Antiferromagnetic Spin Wave in Ce ₂ CuGe ₆ . <i>Japanese Journal of Applied Physics</i> , 2004, 43, L66-L69.	0.8	3
66	Anomalous temperature and disorder dependences of electron-phonon scattering rate in impure V _{1-x} Al _x alloys. <i>Physical Review B</i> , 2004, 69, .	1.1	19
67	EFFECT OF THE ANNEALING TEMPERATURE ON THE ELECTRONIC AND ATOMIC STRUCTURES OF EXCHANGE-BIASED NiFe/FeMn BILAYERS. <i>Surface Review and Letters</i> , 2002, 09, 293-298.	0.5	3
68	Valence state of CeAl ₂ nanoparticles studied by Ce L ₃ -edge x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , 2000, 87, 3349-3350.	1.1	8
69	Size-Induced Transition from Magnetic Ordering to Kondo Behavior in (Ce,Al) Compounds. <i>Physical Review Letters</i> , 2000, 84, 4990-4993.	2.9	40
70	NOVEL MAGNETISM AND SUPERCONDUCTIVITY IN A Ru-BASED DOUBLE PEROVSKITE. <i>International Journal of Modern Physics B</i> , 1999, 13, 3585-3590.	1.0	10
71	Magnetic ordering of Ce in the heavy-fermion compound Ce ₃ Al. <i>Journal of Applied Physics</i> , 1998, 83, 6426-6428.	1.1	7
72	The Electrical Resistivity and Specific Heat of NiGa. <i>Modern Physics Letters B</i> , 1997, 11, 407-414.	1.0	6

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73	Low-temperature specific heat of Pd nanocrystals. European Physical Journal D, 1996, 46, 2369-2370.	0.4	0
74	Influence of crystal structure on the magnetoresistance of Co/Cr multilayers. Journal of Applied Physics, 1994, 76, 6516-6518.	1.1	16
75	Electrical Resistivity of Ti _{0.862} Al _{0.102} V _{0.036} Alloy between 4 and 1000 K. Journal of the Physical Society of Japan, 1992, 61, 674-678.	0.7	2
76	Electrical resistivity, magnetization, and grain boundary precipitate in nickel-rich nickel-indium alloys. Journal of Applied Physics, 1991, 69, 5361-5363.	1.1	1
77	Electrical resistivity, magnetization, and grain boundary precipitates in Ni ₅₂ Sn alloys. Physica Status Solidi A, 1990, 121, 213-218.	1.7	5
78	Thermal Annealing Study of High-TC Ybaco and Biscacuo Superconducting Wires. Materials Research Society Symposia Proceedings, 1989, 169, 1251.	0.1	1