

Pai-Chun Wei

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,116
citations

516561

16
h-index

395590

33
g-index

33
all docs

33
docs citations

33
times ranked

2009
citing authors

#	ARTICLE	IF	CITATIONS
1	The intrinsic thermal conductivity of SnSe. <i>Nature</i> , 2016, 539, E1-E2.	13.7	140
2	Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15206-15226.	7.2	138
3	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018, 1, .	2.0	135
4	Room-temperature negative photoconductivity in degenerate InN thin films with a supergap excitation. <i>Physical Review B</i> , 2010, 81, .	1.1	72
5	Thermodynamic Routes to Ultralow Thermal Conductivity and High Thermoelectric Performance. <i>Advanced Materials</i> , 2020, 32, e1906457.	11.1	71
6	Layer-edge device of two-dimensional hybrid perovskites. <i>Nature Communications</i> , 2018, 9, 5196.	5.8	63
7	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , 2020, 73, 104801.	8.2	53
8	Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe. <i>Advanced Materials</i> , 2021, 33, e2005612.	11.1	52
9	Ultralow thermal conductivity in n-type Ge-doped AgBiSe ₂ thermoelectric materials. <i>Acta Materialia</i> , 2017, 141, 217-229.	3.8	48
10	Thermoelectric Figure-of-Merit of Fully Dense Single-Crystalline SnSe. <i>ACS Omega</i> , 2019, 4, 5442-5450.	1.6	40
11	Enhancing thermoelectric performance by Fermi level tuning and thermal conductivity degradation in (Ge _{1-x} Bi _x)Te crystals. <i>Scientific Reports</i> , 2019, 9, 8616.	1.6	39
12	Thermoelectric Properties of Zintl Phase Compounds of Ca _{1-x} Eu _x Zn ₂ Sb ₂ (0 ≤ x ≤ 1). <i>Journal of Electronic Materials</i> , 2016, 45, 1942-1946.	1.0	27
13	Enhancement of thermoelectric figure of merit in $\text{Zn}_{1-x}\text{In}_x\text{Sb}_2$ by indium doping control. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	26
14	The effects of Ge doping on the thermoelectric performance of p-type polycrystalline SnSe. <i>RSC Advances</i> , 2016, 6, 114825-114829.	1.7	22
15	Room Temperature Resonant Ultrasound Spectroscopy of Single Crystalline SnSe. <i>ACS Applied Energy Materials</i> , 2018, 1, 6123-6128.	2.5	21
16	Origin of the anomalous temperature evolution of photoluminescence peak energy in degenerate InN nanocolumns. <i>Optics Express</i> , 2009, 17, 11690.	1.7	17
17	Epitaxial Growth of InN Films by Molecular-Beam Epitaxy Using Hydrazoic Acid (HN ₃) as an Efficient Nitrogen Source. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6755-6759.	1.1	15
18	Designing Environmentally Friendly High- zT Zn ₄ Sb ₃ via Thermodynamic Routes. <i>ACS Applied Energy Materials</i> , 2019, 2, 7564-7571.	2.5	15

#	ARTICLE	IF	CITATIONS
19	Thermoelectric Characteristics of A Single-Crystalline Topological Insulator Bi ₂ Se ₃ Nanowire. <i>Nanomaterials</i> , 2021, 11, 819.	1.9	15
20	Interfacial reactions in thermoelectric modules. <i>Materials Research Letters</i> , 2018, 6, 244-248.	4.1	14
21	Thermoelectric properties optimization of Fe ₂ VGa by tuning electronic density of states via titanium doping. <i>Journal of Applied Physics</i> , 2015, 118, 165102.	1.1	13
22	Extremely space and time restricted thermal transport in the high temperature Cmcm phase of thermoelectric SnSe. <i>Materials Today Physics</i> , 2019, 11, 100171.	2.9	11
23	Anisotropic elasticity drives negative thermal expansion in monocrystalline SnSe. <i>Physical Review B</i> , 2021, 103, .	1.1	11
24	Hierarchical twinning and light impurity doping enable high-performance GeTe thermoelectrics. <i>Acta Materialia</i> , 2022, 222, 117406.	3.8	11
25	Hybride organisch-organische thermoelektrische Materialien und Baueinheiten. <i>Angewandte Chemie</i> , 2019, 131, 15348-15370.	1.6	9
26	Spectroscopic trace of the Lifshitz transition and multivalley activation in thermoelectric SnSe under high pressure. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	8
27	Structural, compositional, and photoluminescence characterization of thermal chemical vapor deposition-grown Zn ₃ N ₂ microtips. <i>Journal of Applied Physics</i> , 2014, 116, 143507.	1.1	7
28	Surface diffusion controlled formation of high quality vertically aligned InN nanotubes. <i>Journal of Applied Physics</i> , 2014, 116, 124301.	1.1	7
29	Thermoelectric Materials: Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe (<i>Adv. Mater.</i> 1/2021). <i>Advanced Materials</i> , 2021, 33, 2170008.	11.1	6
30	Thermal diffusivity study in supported epitaxial InN thin films by the traveling-wave technique. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	4
31	The reduction of antiphase boundary defects by the surfactant antimony and its application to the III-V multi-junction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 418-421.	3.0	3
32	Dual lattice incommensurabilities and enhanced lattice perfection by low-temperature thermal annealing in photoelectric α -Ag ₂ Se. <i>Physical Review Materials</i> , 2021, 5, .	0.9	2