

Ady Suwardi

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,847
citations

201385

27
h-index

288905

40
g-index

62
all docs

62
docs citations

62
times ranked

1479
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial ferroelectric BiFeO ₃ thin films for unassisted photocatalytic water splitting. Applied Physics Letters, 2013, 103, .	1.5	133
2	Thermoelectric materials and transport physics. Materials Today Physics, 2021, 21, 100519.	2.9	77
3	Toward Accelerated Thermoelectric Materials and Process Discovery. ACS Applied Energy Materials, 2020, 3, 2240-2257.	2.5	75
4	Machine Learning-Driven Biomaterials Evolution. Advanced Materials, 2022, 34, e2102703.	11.1	68
5	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. Journal of Materials Chemistry A, 2020, 8, 18880-18890.	5.2	61
6	Achieving high thermoelectric quality factor toward high figure of merit in GeTe. Materials Today Physics, 2020, 14, 100239.	2.9	61
7	Inertial effective mass as an effective descriptor for thermoelectrics <i>via</i> data-driven evaluation. Journal of Materials Chemistry A, 2019, 7, 23762-23769.	5.2	58
8	High thermoelectric performance enabled by convergence of nested conduction bands in Pb ₇ Bi ₄ Se ₁₃ with low thermal conductivity. Nature Communications, 2021, 12, 4793.	5.8	53
9	Composite epitaxial thin films: A new platform for tuning, probing, and exploiting mesoscale oxides. MRS Bulletin, 2015, 40, 933-942.	1.7	52
10	Electronic Modulation of Nickel Disulfide toward Efficient Water Electrolysis. Small, 2020, 16, e1905885.	5.2	52
11	Strategies to reduce the flammability of organic phase change Materials: A review. Solar Energy, 2022, 231, 115-128.	2.9	52
12	Improving carrier mobility in two-dimensional semiconductors with rippled materials. Nature Electronics, 2022, 5, 489-496.	13.1	52
13	Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi ₂ O ₂ Se for High-Performance Thermoelectrics. Advanced Materials, 2021, 33, e2004786.	11.1	48
14	Bottom-Up Engineering Strategies for High-Performance Thermoelectric Materials. Nano-Micro Letters, 2021, 13, 119.	14.4	48
15	Single-Crystalline Thin Films for Studying Intrinsic Properties of BiFeO ₃ -SrTiO ₃ Solid Solution Photoelectrodes in Solar Energy Conversion. Chemistry of Materials, 2015, 27, 6635-6641.	3.2	44
16	Additive Manufacturing of Thermoelectrics: Emerging Trends and Outlook. ACS Energy Letters, 2022, 7, 720-735.	8.8	40
17	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu ₂ SnSe ₃ . Advanced Energy Materials, 2021, 11, 2100661.	10.2	39
18	Effective enhancement of thermoelectric and mechanical properties of germanium telluride <i>via</i> rhenium-doping. Journal of Materials Chemistry C, 2020, 8, 16940-16948.	2.7	38

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19	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23335-23344.	5.2	38
20	New strain states and radical property tuning of metal oxides using a nanocomposite thin film approach. <i>APL Materials</i> , 2015, 3, 062507.	2.2	37
21	Transparent flexible thin-film μ n junction thermoelectric module. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	37
22	Crystal Structure and Atomic Vacancy Optimized Thermoelectric Properties in Gadolinium Selenides. <i>Chemistry of Materials</i> , 2020, 32, 10130-10139.	3.2	36
23	Enhanced Thermoelectric Performance of Nanocrystalline Indium Tin Oxide Pellets by Modulating the Density and Nanoporosity Via Spark Plasma Sintering. <i>ACS Applied Nano Materials</i> , 2020, 3, 10156-10165.	2.4	35
24	Origin of High Thermoelectric Performance in Earth-Abundant Phosphide—Tetrahedrite. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9150-9157.	4.0	35
25	Realizing zT Values of 2.0 in Cubic GeTe. <i>ChemNanoMat</i> , 2021, 7, 476-482.	1.5	35
26	Facile synthesis of Cu ₇ Te ₄ nanorods and the enhanced thermoelectric properties of Cu ₇ Te ₄ —Bi _{0.4} Sb _{1.6} Te ₃ nanocomposites. <i>Nano Energy</i> , 2013, 2, 4-11.	8.2	34
27	Surface modification of microencapsulated phase change materials with nanostructures for enhancement of their thermal conductivity. <i>Materials Chemistry and Physics</i> , 2022, 277, 125438.	2.0	32
28	Unraveling the Critical Role of Melt-Spinning Atmosphere in Enhancing the Thermoelectric Performance of p-Type Bi _{0.52} Sb _{1.48} Te ₃ Alloys. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36186-36195.	4.0	28
29	Turning antiferromagnetic Sm _{0.34} Sr _{0.66} MnO ₃ into a 140 K ferromagnet using a nanocomposite strain tuning approach. <i>Nanoscale</i> , 2016, 8, 8083-8090.	2.8	25
30	Cold-Sintered Bi ₂ Te ₃ -Based Materials for Engineering Nanograined Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2022, 5, 2002-2010.	2.5	25
31	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. <i>Advanced Materials</i> , 2022, 34, e2110518.	11.1	25
32	Designing good compatibility factor in segmented Bi _{0.5} Sb _{1.5} Te ₃ — GeTe thermoelectrics for high power conversion efficiency. <i>Nano Energy</i> , 2022, 96, 107147.	8.2	24
33	Halogen bonding regulated functional nanomaterials. <i>Nanoscale Advances</i> , 2021, 3, 6342-6357.	2.2	23
34	Hot corrosion and internal spallation of laser-cladded inconel 625 superalloy coatings in molten sulfate salts. <i>Corrosion Science</i> , 2021, 193, 109869.	3.0	23
35	Integrating recyclable polymers into thermoelectric devices for green electronics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19787-19796.	5.2	21
36	The Efficacy of Plant-Based Ionizers in Removing Aerosol for COVID-19 Mitigation. <i>Research</i> , 2021, 2021, 2173642.	2.8	20

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37	Flexible elemental thermoelectrics with ultra-high power density. <i>Materials Today Energy</i> , 2022, 25, 100964.	2.5	20
38	A highly flexible form-stable silicone-octadecane PCM composite for heat harvesting. <i>Materials Today Advances</i> , 2022, 14, 100227.	2.5	20
39	Risk assessment of airborne COVID-19 exposure in social settings. <i>Physics of Fluids</i> , 2021, 33, 087118.	1.6	19
40	Thermoelectric Properties of Substoichiometric Electron Beam Patterned Bismuth Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33647-33655.	4.0	17
41	Enhanced near-room-temperature thermoelectric performance in GeTe. <i>Rare Metals</i> , 2022, 41, 3027-3034.	3.6	17
42	Electronic transport descriptors for the rapid screening of thermoelectric materials. <i>Materials Horizons</i> , 2021, 8, 2463-2474.	6.4	16
43	Improved αT in Nb ₅ Ge ₃ â€“GeTe thermoelectric nanocomposite. <i>Nanoscale</i> , 2022, 14, 410-418.	2.8	16
44	Direct measurement of the thermoelectric properties of electrochemically deposited Bi ₂ Te ₃ thin films. <i>Scientific Reports</i> , 2020, 10, 17922.	1.6	15
45	SARS-CoV-2 in wastewater: From detection to evaluation. <i>Materials Today Advances</i> , 2022, 13, 100211.	2.5	15
46	Biomaterials by design: Harnessing data for future development. <i>Materials Today Bio</i> , 2021, 12, 100165.	2.6	13
47	Additive manufacturing solidification methodologies for ink formulation. <i>Additive Manufacturing</i> , 2022, 56, 102939.	1.7	13
48	Gallium-Doped Zinc Oxide Nanostructures for Tunable Transparent Thermoelectric Films. <i>ACS Applied Nano Materials</i> , 2022, 5, 8631-8639.	2.4	13
49	Recent advances in laser-cladding of metal alloys for protective coating and additive manufacturing. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 2482-2504.	1.4	13
50	Modification of thermal transport in few-layer MoS ₂ by atomic-level defect engineering. <i>Nanoscale</i> , 2021, 13, 11561-11567.	2.8	12
51	Potential of Recycled Silicon and Silicon-Based Thermoelectrics for Power Generation. <i>Crystals</i> , 2022, 12, 307.	1.0	9
52	A Systematic Approach for Semiconductor Half-Heusler. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	8
53	Direct deposition of low-cost carbon fiber reinforced stainless steel composites by twin-wire arc spray. <i>Journal of Materials Processing Technology</i> , 2022, 301, 117440.	3.1	8
54	Photon-upconverters for blue organic light-emitting diodes: a low-cost, sky-blue example. <i>Nanoscale Advances</i> , 2022, 4, 1318-1323.	2.2	6

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55	New paradigm for efficient thermoelectrics. , 2020, , 183-196.		5
56	Modulation of Spin Dynamics in 2D Transitionâ€Metal Dichalcogenide via Strainâ€Driven Symmetry Breaking. Advanced Science, 2022, , 2200816.	5.6	4
57	Physical Intuition to Improve Electronic Properties of Thermoelectrics. Frontiers in Physics, 2021, 9, .	1.0	3
58	Thermoelectric Materials: Gateâ€Tunable Polar Optical Phonon to Piezoelectric Scattering in Fewâ€Layer Bi₂O₂Se for Highâ€Performance Thermoelectrics (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170023.	11.1	1
59	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). Advanced Materials, 2022, 34, .	11.1	0
60	Thermoelectricity: Phenomenon and applications. , 2022, , 267-293.		0