

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	Machine Learning-Driven Biomaterials Evolution. <i>Advanced Materials</i> , 2022, 34, e2102703.	11.1	68
2	Strategies to reduce the flammability of organic phase change Materials: A review. <i>Solar Energy</i> , 2022, 231, 115-128.	2.9	52
3	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
4	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
5	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
6	Improved zT in Nb_5Ge_3 -GeTe thermoelectric nanocomposite. <i>Nanoscale</i> , 2022, 14, 410-418.	2.8	16
7	Cold-Sintered Bi_2Te_3 -Based Materials for Engineering Nanograined Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2022, 5, 2002-2010.	2.5	25
8	Additive Manufacturing of Thermoelectrics: Emerging Trends and Outlook. <i>ACS Energy Letters</i> , 2022, 7, 720-735.	8.8	40
9	SARS-CoV-2 in wastewater: From detection to evaluation. <i>Materials Today Advances</i> , 2022, 13, 100211.	2.5	15
10	Flexible elemental thermoelectrics with ultra-high power density. <i>Materials Today Energy</i> , 2022, 25, 100964.	2.5	20
11	Potential of Recycled Silicon and Silicon-Based Thermoelectrics for Power Generation. <i>Crystals</i> , 2022, 12, 307.	1.0	9
12	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. <i>Advanced Materials</i> , 2022, 34, e2110518.	11.1	25
13	A highly flexible form-stable silicone-octadecane PCM composite for heat harvesting. <i>Materials Today Advances</i> , 2022, 14, 100227.	2.5	20
14	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
15	Integrating recyclable polymers into thermoelectric devices for green electronics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19787-19796.	5.2	21
16	Modulation of Spin Dynamics in 2D Transition-Metal Dichalcogenide via Strain-Driven Symmetry Breaking. <i>Advanced Science</i> , 2022, , 2200816.	5.6	4
17	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	0
18	Additive manufacturing solidification methodologies for ink formulation. <i>Additive Manufacturing</i> , 2022, 56, 102939.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Thermoelectricity: Phenomenon and applications. , 2022, , 267-293.		0
20	Gallium-Doped Zinc Oxide Nanostructures for Tunable Transparent Thermoelectric Films. ACS Applied Nano Materials, 2022, 5, 8631-8639.	2.4	13
21	Recent advances in laser-cladding of metal alloys for protective coating and additive manufacturing. Journal of Adhesion Science and Technology, 2022, 36, 2482-2504.	1.4	13
22	Enhanced near-room-temperature thermoelectric performance in GeTe. Rare Metals, 2022, 41, 3027-3034.	3.6	17
23	Improving carrier mobility in two-dimensional semiconductors with rippled materials. Nature Electronics, 2022, 5, 489-496.	13.1	52
24	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
25	Thermoelectric Materials: Gate-tunable Polar Optical Phonon to Piezoelectric Scattering in Few-layer Bi ₂ O ₂ Se for High-performance Thermoelectrics (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170023.	11.1	1
26	Electronic transport descriptors for the rapid screening of thermoelectric materials. Materials Horizons, 2021, 8, 2463-2474.	6.4	16
27	Modification of thermal transport in few-layer MoS ₂ by atomic-level defect engineering. Nanoscale, 2021, 13, 11561-11567.	2.8	12
28	Halogen bonding regulated functional nanomaterials. Nanoscale Advances, 2021, 3, 6342-6357.	2.2	23
29	The Efficacy of Plant-Based Ionizers in Removing Aerosol for COVID-19 Mitigation. Research, 2021, 2021, 2173642.	2.8	20
30	Realizing zT Values of 2.0 in Cubic GeTe. ChemNanoMat, 2021, 7, 476-482.	1.5	35
31	Bottom-Up Engineering Strategies for High-Performance Thermoelectric Materials. Nano-Micro Letters, 2021, 13, 119.	14.4	48
32	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
33	Risk assessment of airborne COVID-19 exposure in social settings. Physics of Fluids, 2021, 33, 087118.	1.6	19
34	Hot corrosion and internal spallation of laser-cladded inconel 625 superalloy coatings in molten sulfate salts. Corrosion Science, 2021, 193, 109869.	3.0	23
35	Thermoelectric materials and transport physics. Materials Today Physics, 2021, 21, 100519.	2.9	77
36	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. Journal of Materials Chemistry A, 2021, 9, 23335-23344.	5.2	38

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37	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu_2SnSe_3 . <i>Advanced Energy Materials</i> , 2021, 11, 2100661.	10.2	39
38	A Systematic Approach for Semiconductor Half-Heusler. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	8
39	Biomaterials by design: Harnessing data for future development. <i>Materials Today Bio</i> , 2021, 12, 100165.	2.6	13
40	Physical Intuition to Improve Electronic Properties of Thermoelectrics. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	3
41	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
42	Direct measurement of the thermoelectric properties of electrochemically deposited Bi_2Te_3 thin films. <i>Scientific Reports</i> , 2020, 10, 17922.	1.6	15
43	Unraveling the Critical Role of Melt-Spinning Atmosphere in Enhancing the Thermoelectric Performance of p-Type $\text{Bi}_{0.52}\text{Sb}_{1.48}\text{Te}_3$ Alloys. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36186-36195.	4.0	28
44	Crystal Structure and Atomic Vacancy Optimized Thermoelectric Properties in Gadolinium Selenides. <i>Chemistry of Materials</i> , 2020, 32, 10130-10139.	3.2	36
45	Effective enhancement of thermoelectric and mechanical properties of germanium telluride <i>via</i> rhenium-doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16940-16948.	2.7	38
46	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18880-18890.	5.2	61
47	Transparent flexible thin-film p-n junction thermoelectric module. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	37
48	New paradigm for efficient thermoelectrics. , 2020, , 183-196.		5
49	Achieving high thermoelectric quality factor toward high figure of merit in GeTe. <i>Materials Today Physics</i> , 2020, 14, 100239.	2.9	61
50	Electronic Modulation of Nickel Disulfide toward Efficient Water Electrolysis. <i>Small</i> , 2020, 16, e1905885.	5.2	52
51	Thermoelectric Properties of Substoichiometric Electron Beam Patterned Bismuth Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33647-33655.	4.0	17
52	Toward Accelerated Thermoelectric Materials and Process Discovery. <i>ACS Applied Energy Materials</i> , 2020, 3, 2240-2257.	2.5	75
53	Origin of High Thermoelectric Performance in Earth-Abundant Phosphide "Tetrahedrite". <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9150-9157.	4.0	35
54	Inertial effective mass as an effective descriptor for thermoelectrics <i>via</i> data-driven evaluation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23762-23769.	5.2	58

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55	Turning antiferromagnetic $\text{Sm}_{0.34}\text{Sr}_{0.66}\text{MnO}_3$ into a 140 K ferromagnet using a nanocomposite strain tuning approach. <i>Nanoscale</i> , 2016, 8, 8083-8090.	2.8	25
56	Composite epitaxial thin films: A new platform for tuning, probing, and exploiting mesoscale oxides. <i>MRS Bulletin</i> , 2015, 40, 933-942.	1.7	52
57	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
58	Single-Crystalline Thin Films for Studying Intrinsic Properties of BiFeO_3 – SrTiO_3 Solid Solution Photoelectrodes in Solar Energy Conversion. <i>Chemistry of Materials</i> , 2015, 27, 6635-6641.	3.2	44
59	Epitaxial ferroelectric BiFeO_3 thin films for unassisted photocatalytic water splitting. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	133
60	Facile synthesis of Cu_7Te_4 nanorods and the enhanced thermoelectric properties of Cu_7Te_4 – $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ nanocomposites. <i>Nano Energy</i> , 2013, 2, 4-11.	8.2	34