Tianzhuo Zhan

List of Publications by Year
in descending order

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		623574	610775
31	604	14	24
papers	citations	h-index	g-index

32	32	32	835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modification and Characterization of Interfacial Bonding for Thermal Management of Ruthenium Interconnects in Next-Generation Very-Large-Scale Integration Circuits. ACS Applied Materials & Interfaces, 2022, 14, 7392-7404.	4.0	8
2	Understanding the role of potassium incorporation in realizing transparent p-type ZnO thin films. Journal of Alloys and Compounds, 2022, 904, 164070.	2.8	3
3	Experimental Study on Solidification Characteristics of Sessile Urine Droplets on a Horizontal Cold Plate Surface under Natural Convection. Langmuir, 2022, 38, 7846-7857.	1.6	13
4	Sn-incorporation effect on thermoelectric properties of Sb-doped Ge-rich Ge_{1â^'xâ^'y}Si_xSn_y epitaxial layers grown on GaAs(001). Japanese Journal of Applied Physics, 2022, 61, 085502.	0.8	3
5	Fabrication of high-quality GaAs/diamond heterointerface for thermal management applications. Diamond and Related Materials, 2021, 111, 108207.	1.8	16
6	Characteristics analysis and parameter optimization of a micro-combustion based thermoelectric generator. Applied Thermal Engineering, 2021, 193, 116992.	3.0	5
7	Effect of the Thermal Boundary Resistance in Metal/Dielectric Thermally Conductive Layers on Power Generation of Silicon Nanowire Microthermoelectric Generators. ACS Applied Materials & Interfaces, 2020, 12, 34441-34450.	4.0	9
8	Physical and chemical descriptors for predicting interfacial thermal resistance. Scientific Data, 2020, 7, 36.	2.4	9
9	Effect of Thermal Boundary Resistance between the Interconnect Metal and Dielectric Interlayer on Temperature Increase of Interconnects in Deeply Scaled VLSI. ACS Applied Materials & Interfaces, 2020, 12, 22347-22356.	4.0	10
10	(Invited) Cavity-Free Micro Thermoelectric Energy Harvester with Si Nanowires. ECS Transactions, 2019, 89, 95-110.	0.3	4
11	Ultra-low thermal conductivity of high-interface density Si/Ge amorphous multilayers. Applied Physics Express, 2018, 11, 045202.	1.1	8
12	Modeling, Simulation, Fabrication, and Characterization of a 10-<inline-formula> <tex-math notation="LaTeX">mu </tex-math> </inline-formula>W/cm² Class Si-Nanowire Thermoelectric Generator for IoT Applications. IEEE Transactions on Electron Devices, 2018, 65, 5180-5188.	1.6	54
13	10Î¼W/cm²-Class High Power Density Planar Si-Nanowire Thermoelectric Energy Harvester Compatible with CMOS-VLSI Technology. , 2018, , .		7
14	Enhancement of thermoelectric power of a Si nanowire micro thermoelectric generator by improving the thermal conductivity of AlN thermally conductive film. Journal of Physics: Conference Series, 2018, 1052, 012131.	0.3	0
15	Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically Thermoconductive Polymer Composites. Advanced Functional Materials, 2018, 28, 1801205.	7.8	76
16	Miniaturized planar Si-nanowire micro-thermoelectric generator using exuded thermal field for power generation. Science and Technology of Advanced Materials, 2018, 19, 443-453.	2.8	43
17	Modification of thermal conductivity and thermal boundary resistance of amorphous Si thin films by Al doping. RSC Advances, 2017, 7, 7901-7905.	1.7	11
18	Control of p-type and n-type thermoelectric properties of bismuth telluride thin films by combinatorial sputter coating technology. Applied Surface Science, 2017, 407, 405-411.	3.1	43

#	Article	IF	Citations
19	Unexpectedly high thermal boundary resistance of Cr/graphene/SiO2 structure. Japanese Journal of Applied Physics, 2017, 56, 055101.	0.8	1
20	Prediction of thermal boundary resistance by the machine learning method. Scientific Reports, 2017, 7, 7109.	1.6	71
21	Thermal boundary resistance at Si/Ge interfaces by molecular dynamics simulation. AIP Advances, 2015, 5, .	0.6	27
22	Thermal boundary resistance at Au/Ge/Ge and Au/Si/Ge interfaces. RSC Advances, 2015, 5, 49703-49707.	1.7	15
23	Phonons with long mean free paths in a-Si and a-Ge. Applied Physics Letters, 2014, 104, .	1.5	32
24	Thermal conductivity of sputtered amorphous Ge films. AIP Advances, 2014, 4, .	0.6	20
25	Enhancement of impact-induced mechanoluminescence for structure health monitoring using swift heavy ion irradiation. , 2012, , .		1
26	Enhancement of afterglow in SrAl₂O₄:Eu²⁺long-lasting phosphor with swift heavy ion irradiation. RSC Advances, 2012, 2, 328-332.	1.7	31
27	Enhancement of impact-induced mechanoluminescence by swift heavy ion irradiation. Applied Physics Letters, 2012, 100, .	1.5	20
28	Beam profile indicator for swift heavy ions using phosphor afterglow. AIP Advances, 2012, 2, .	0.6	7
29	Direct visualization of ultrasonic power distribution using mechanoluminescent film. Ultrasonics Sonochemistry, 2011, 18, 436-439.	3.8	33
30	Mechanoluminescent Film Sensor for Visualizing Ultrasonic Power Distribution. IOP Conference Series: Materials Science and Engineering, 2011, 18, 212011.	0.3	4
31	Magnetization of microorganism cells by sol-gel method. Science in China Series D: Earth Sciences, 2008, 51, 591-597.	0.9	18