Eric J Tervo

List of Publications by Year
in descending order

23	485	933447 10	940533 16
papers	citations	h-index	g-index

23	23	23	325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermophotovoltaic efficiency of 40%. Nature, 2022, 604, 287-291.	27.8	108
2	An economic analysis of residential photovoltaic systems with lithium ion battery storage in the United States. Renewable and Sustainable Energy Reviews, 2018, 94, 1057-1066.	16.4	101
3	Near-field radiative thermoelectric energy converters: a review. Frontiers in Energy, 2018, 12, 5-21.	2.3	71
4	Thermal radiation in systems of many dipoles. Physical Review B, 2019, 100, .	3.2	39
5	Collective near-field thermal emission from polaritonic nanoparticle arrays. Physical Review Materials, 2017, 1, .	2.4	34
6	Solar Thermoradiative-Photovoltaic Energy Conversion. Cell Reports Physical Science, 2020, 1, 100258.	5.6	18
7	Comparison of kinetic theory and fluctuational electrodynamics for radiative heat transfer in nanoparticle chains. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106947.	2.3	17
8	Coupled Charge and Radiation Transport Processes in Thermophotovoltaic and Thermoradiative Cells. Physical Review Applied, 2021, 15, .	3.8	16
9	Effect of Evanescent Waves on the Dark Current of Thermophotovoltaic Cells. Nanoscale and Microscale Thermophysical Engineering, 2020, 24, 1-19.	2.6	14
10	Spatial profiles of photon chemical potential in near-field thermophotovoltaic cells. Journal of Applied Physics, 2021, 129, .	2.5	13
11	Photonic thermal conduction by infrared plasmonic resonators in semiconductor nanowires. Applied Physics Letters, 2019, 114, 163104.	3.3	10
12	High-performance carbon nanotube electronic ratchets. Energy and Environmental Science, 2021, 14, 5457-5468.	30.8	8
13	Semiconductor-dielectric-metal solar absorbers with high spectral selectivity. Solar Energy Materials and Solar Cells, 2022, 240, 111735.	6.2	8
14	World record demonstration of > 30% thermophotovoltaic conversion efficiency. , 2020, , .		7
15	GaAs thermophotovoltaic patterned dielectric back contact devices with improved sub-bandgap reflectance. Solar Energy Materials and Solar Cells, 2022, 238, 111545.	6.2	6
16	Sub-diffractional waveguiding by mid-infrared plasmonic resonators in semiconductor nanowires. Nanoscale, 2018, 10, 5708-5716.	5.6	5
17	Field Testing of Negative-Wave Leak Detection Systems. , 2014, , .		4
18	Platform for Accurate Efficiency Quantification of > 35% Efficient Thermophotovoltaic Cells. , 2021, , .		3

#	Article	IF	Citations
19	Characterization of Thermal and Acoustic Profiles of Potential Underwater Pipeline Leaks. , 2014, , .		1
20	Thermo-optical properties of packed nanoparticle thermal interface materials. , 2017, , .		1
21	DIPOLE APPROXIMATIONS FOR NEAR-FIELD RADIATIVE HEAT TRANSFER. Annual Review of Heat Transfer, 2020, 23, 131-166.	1.0	1
22	Rigorous Coupled Wave Analysis of GaAs Thermophotovoltaic Devices with a Patterned Dielectric Back Contact. , 2021, , .		0
23	NEAR-FIELD RADIATIVE THERMAL CONDUCTIVITY OF NANOPARTICLE CHAINS. , 2018, , .		0