

# Ronald J Warzoha

## List of Publications by Citations

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35  
papers

814  
citations

14  
h-index

28  
g-index

44  
ext. papers

987  
ext. citations

5.6  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
35	Energy storage and solidification of paraffin phase change material embedded with graphite nanofibers. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 4429-4436	4.9	130
34	Heat flow at nanoparticle interfaces. <i>Nano Energy</i> , <b>2014</b> , 6, 137-158	17.1	104
33	Temperature-dependent thermal properties of a paraffin phase change material embedded with herringbone style graphite nanofibers. <i>Applied Energy</i> , <b>2015</b> , 137, 716-725	10.7	97
32	Improved heat recovery from paraffin-based phase change materials due to the presence of percolating graphene networks. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 79, 314-323	4.9	68
31	Effect of carbon nanotube interfacial geometry on thermal transport in solid-liquid phase change materials. <i>Applied Energy</i> , <b>2015</b> , 154, 271-276	10.7	51
30	Mechanisms of nonequilibrium electron-phonon coupling and thermal conductance at interfaces. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 105105	2.5	50
29	Effect of graphene layer thickness and mechanical compliance on interfacial heat flow and thermal conduction in solid-liquid phase change materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12868-12876	9.5	48
28	Engineering interfaces in carbon nanostructured mats for the creation of energy efficient thermal interface materials. <i>Carbon</i> , <b>2013</b> , 61, 441-457	10.4	37
27	Determining the thermal conductivity of liquids using the transient hot disk method. Part II: Establishing an accurate and repeatable experimental methodology. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 790-807	4.9	26
26	Determining the thermal conductivity of liquids using the transient hot disk method. Part I: Establishing transient thermal-fluid constraints. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 779-789	4.9	25
25	High-temperature polymers with record-high breakdown strength enabled by rationally designed chain-packing behavior in blends. <i>Matter</i> , <b>2021</b> , 4, 2448-2459	12.7	25
24	Thermal property prediction and measurement of organic phase change materials in the liquid phase near the melting point. <i>Applied Energy</i> , <b>2014</b> , 132, 496-506	10.7	22
23	Quantification of the Impact of Embedded Graphite Nanofibers on the Transient Thermal Response of Paraffin Phase Change Material Exposed to High Heat Fluxes. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	20
22	Nanoscale thermal transport in amorphous and crystalline GeTe thin-films. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 023104	3.4	18
21	Solid-state thermal energy storage using reversible martensitic transformations. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 143902	3.4	12
20	Applications and Impacts of Nanoscale Thermal Transport in Electronics Packaging. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2021</b> , 143,	2	11
19	High resolution steady-state measurements of thermal contact resistance across thermal interface material junctions. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 094901	1.7	9

18	Molecular Tuning of the Vibrational Thermal Transport Mechanisms in Fullerene Derivative Solutions. <i>ACS Nano</i> , <b>2017</b> , 11, 1389-1396	16.7	7
17	Maximum Resolution of a Probe-Based, Steady-State Thermal Interface Material Characterization Instrument. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2017</b> , 139,	2	7
16	Experimental Characterization of the Thermal Diffusivity of Paraffin Phase Change Material Embedded With Herringbone Style Graphite Nanofibers <b>2012</b> ,		7
15	Theoretical Paradigm for Thermal Rectification via Phonon Filtering and Spectral Confinement. <i>Physical Review Letters</i> , <b>2020</b> , 124, 075903	7.4	5
14	Strained Polymer Thermal Conductivity Enhancement Counteracted by Additional Off-Axis Strain. <i>Macromolecules</i> , <b>2020</b> , 53, 11089-11097	5.5	5
13	Low-force elastocaloric refrigeration via bending. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 184103	3.4	5
12	Evaluation of methods to fully saturate carbon foam with paraffin wax phase change material for energy storage <b>2012</b> ,		4
11	Grain growth-induced thermal property enhancement of NiTi shape memory alloys for elastocaloric refrigeration and thermal energy storage systems. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 154, 119760	4.9	4
10	Elimination of Extreme Boundary Scattering via Polymer Thermal Bridging in Silica Nanoparticle Packings: Implications for Thermal Management. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6662-6669	5.6	3
9	Processing and Characterization of Silicon Nitride Nanofiber Paper. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-7	3.2	3
8	Steady-state measurements of thermal transport across highly conductive interfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 130, 874-881	4.9	3
7	Design Considerations for Miniaturized Steady-State Thermal Characterization Instruments. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2018</b> , 8, 1401-1410	1.7	2
6	Effect of Grain Size on the Thermal Properties of Nickel-Titanium Shape Memory Alloys Across the Martensite-Austenite Phase Transition <b>2019</b> ,		2
5	Thermal Management of High Density Power Electronics Modules Using Dielectric Mineral Oil With Applications in the Electric Utility Field for Smart Grid Protection. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2011</b> , 3,	1.9	2
4	Design considerations for a miniaturized TIM tester with extremely high measurement resolution <b>2017</b> ,		1
3	Development and testing of subambient melt temperature nano-enhanced phase change materials <b>2012</b> ,		1
2	A numerical fitting routine for frequency-domain thermoreflectance measurements of nanoscale material systems having arbitrary geometries. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 035103	2.5	0
1	Donovan and Warzoha Reply.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 129602	7.4	

