Ronald J Warzoha

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Donovan and Warzoha Reply.. *Physical Review Letters*, **2022**, 128, 129602	7.4	
34	Low-force elastocaloric refrigeration via bending. *Applied Physics Letters*, **2021**, 118, 184103	3.4	5
33	Applications and Impacts of Nanoscale Thermal Transport in Electronics Packaging. *Journal of Electronic Packaging, Transactions of the ASME*, **2021**, 143,	2	11
32	High-temperature polymers with record-high breakdown strength enabled by rationally designed chain-packing behavior in blends. *Matter*, **2021**, 4, 2448-2459	12.7	25
31	A numerical fitting routine for frequency-domain thermoreflectance measurements of nanoscale material systems having arbitrary geometries. *Journal of Applied Physics*, **2021**, 129, 035103	2.5	0
30	Theoretical Paradigm for Thermal Rectification via Phonon Filtering and Spectral Confinement. *Physical Review Letters*, **2020**, 124, 075903	7.4	5
29	Strained Polymer Thermal Conductivity Enhancement Counteracted by Additional Off-Axis Strain. *Macromolecules*, **2020**, 53, 11089-11097	5.5	5
28	Grain growth-induced thermal property enhancement of NiTi shape memory alloys for elastocaloric refrigeration and thermal energy storage systems. *International Journal of Heat and Mass Transfer*, **2020**, 154, 119760	4.9	4
27	Elimination of Extreme Boundary Scattering via Polymer Thermal Bridging in Silica Nanoparticle Packings: Implications for Thermal Management. *ACS Applied Nano Materials*, **2019**, 2, 6662-6669	5.6	3
26	Solid-state thermal energy storage using reversible martensitic transformations. *Applied Physics Letters*, **2019**, 114, 143902	3.4	12
25	Effect of Grain Size on the Thermal Properties of Nickel-Titanium Shape Memory Alloys Across the Martensite-Austenite Phase Transition **2019**,		2
24	Nanoscale thermal transport in amorphous and crystalline GeTe thin-films. *Applied Physics Letters*, **2019**, 115, 023104	3.4	18
23	Steady-state measurements of thermal transport across highly conductive interfaces. *International Journal of Heat and Mass Transfer*, **2019**, 130, 874-881	4.9	3
22	Design Considerations for Miniaturized Steady-State Thermal Characterization Instruments. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 1401-1410	1.7	2
21	Molecular Tuning of the Vibrational Thermal Transport Mechanisms in Fullerene Derivative Solutions. *ACS Nano*, **2017**, 11, 1389-1396	16.7	7
20	Maximum Resolution of a Probe-Based, Steady-State Thermal Interface Material Characterization Instrument. *Journal of Electronic Packaging, Transactions of the ASME*, **2017**, 139,	2	7
19	High resolution steady-state measurements of thermal contact resistance across thermal interface material junctions. *Review of Scientific Instruments*, **2017**, 88, 094901	1.7	9

18	Design considerations for a miniaturized TIM tester with extremely high measurement resolution **2017**,		1
17	Mechanisms of nonequilibrium electron-phonon coupling and thermal conductance at interfaces. *Journal of Applied Physics*, **2015**, 117, 105105	2.5	50
16	Temperature-dependent thermal properties of a paraffin phase change material embedded with herringbone style graphite nanofibers. *Applied Energy*, **2015**, 137, 716-725	10.7	97
15	Effect of carbon nanotube interfacial geometry on thermal transport in solid–liquid phase change materials. *Applied Energy*, **2015**, 154, 271-276	10.7	51
14	Heat flow at nanoparticle interfaces. *Nano Energy*, **2014**, 6, 137-158	17.1	104
13	Determining the thermal conductivity of liquids using the transient hot disk method. Part I: Establishing transient thermal-fluid constraints. *International Journal of Heat and Mass Transfer*, **2014**, 71, 779-789	4.9	25
12	Effect of graphene layer thickness and mechanical compliance on interfacial heat flow and thermal conduction in solid-liquid phase change materials. *ACS Applied Materials & Interfaces*, **2014**, 6, 12868-76	9.5	48
11	Thermal property prediction and measurement of organic phase change materials in the liquid phase near the melting point. *Applied Energy*, **2014**, 132, 496-506	10.7	22
10	Improved heat recovery from paraffin-based phase change materials due to the presence of percolating graphene networks. *International Journal of Heat and Mass Transfer*, **2014**, 79, 314-323	4.9	68
9	Determining the thermal conductivity of liquids using the transient hot disk method. Part II: Establishing an accurate and repeatable experimental methodology. *International Journal of Heat and Mass Transfer*, **2014**, 71, 790-807	4.9	26
8	Engineering interfaces in carbon nanostructured mats for the creation of energy efficient thermal interface materials. *Carbon*, **2013**, 61, 441-457	10.4	37
7	Processing and Characterization of Silicon Nitride Nanofiber Paper. *Journal of Nanomaterials*, **2013**, 2013, 1-7	3.2	3
6	Development and testing of subambient melt temperature nano-enhanced phase change materials **2012**,		1
5	Evaluation of methods to fully saturate carbon foam with paraffin wax phase change material for energy storage **2012**,		4
4	Quantification of the Impact of Embedded Graphite Nanofibers on the Transient Thermal Response of Paraffin Phase Change Material Exposed to High Heat Fluxes. *Journal of Heat Transfer*, **2012**, 134,	1.8	20
3	Experimental Characterization of the Thermal Diffusivity of Paraffin Phase Change Material Embedded With Herringbone Style Graphite Nanofibers **2012**,		7
2	Thermal Management of High Density Power Electronics Modules Using Dielectric Mineral Oil With Applications in the Electric Utility Field for Smart Grid Protection. *Journal of Thermal Science and Engineering Applications*, **2011**, 3,	1.9	2
1	Energy storage and solidification of paraffin phase change material embedded with graphite nanofibers. *International Journal of Heat and Mass Transfer*, **2011**, 54, 4429-4436	4.9	130