

Basil T Wong

List of Publications by Year in descending order

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40
papers

568
citations

687363

13
h-index

642732

23
g-index

40
all docs

40
docs citations

40
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. <i>Journal of Power Sources</i> , 2018, 396, 182-206.	7.8	111
2	A Monte Carlo simulation for phonon transport within silicon structures at nanoscales with heat generation. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1825-1838.	4.8	60
3	Polarized radiative transfer in a particle-laden semi-transparent medium via a vector Monte Carlo method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 84, 383-394.	2.3	43
4	COMPARISON OF MONTE CARLO TECHNIQUES TO PREDICT THE PROPAGATION OF A COLLIMATED BEAM IN PARTICIPATING MEDIA. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2002, 42, 119-140.	0.9	36
5	Optimization of ionic-liquid based electrolyte concentration for high-energy density graphene supercapacitors. <i>Applied Materials Today</i> , 2020, 18, 100522.	4.3	34
6	Monte Carlo methods in radiative transfer and electron-beam processing. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 84, 437-450.	2.3	31
7	Black-silicon-assisted photovoltaic cells for better conversion efficiencies: a review on recent research and development efforts. <i>Materials Today Energy</i> , 2020, 18, 100539.	4.7	29
8	Nano-Scale Machining Via Electron Beam and Laser Processing. <i>Journal of Heat Transfer</i> , 2004, 126, 566.	2.1	26
9	A unified Monte Carlo treatment of the transport of electromagnetic energy, electrons, and phonons in absorbing and scattering media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 399-419.	2.3	25
10	Depolarization of radiation by non-absorbing foams. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 73, 273-284.	2.3	16
11	Tailoring reduction extent of flash-reduced graphene oxides for high performance supercapacitors. <i>Journal of Power Sources</i> , 2020, 478, 228732.	7.8	16
12	Coupling of near-field thermal radiative heating and phonon Monte Carlo simulation: Assessment of temperature gradient in n-doped silicon thin film. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 143, 46-55.	2.3	15
13	Parametric investigation of nano-gap thermophotovoltaic energy conversion. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 171, 39-49.	2.3	15
14	Thermal Transport for Applications in Micro/Nanomachining. <i>Microtechnology and MEMS</i> , 2008, , .	0.2	14
15	Solution of the Boltzmann Transport Equation for Phonon Transport via the Speed-Up Transient Monte Carlo Method Using Reference Temperature. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2014, 66, 281-306.	0.9	11
16	Thermal energy conversion using near-field thermophotovoltaic device composed of a thin-film tungsten radiator and a thin-film silicon cell. <i>Journal of Applied Physics</i> , 2017, 122, 084302.	2.5	9
17	The effect of phonon anisotropic scattering on the thermal conductivity of silicon thin films at 300K and 400K. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 88, 41-46.	4.0	8
18	Thermal conduction induced by electron-beam. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 5099-5107.	4.8	7

#	ARTICLE	IF	CITATIONS
19	Analysis of electrical and thermal responses of n-doped silicon to an impinging electron beam and joule heating. International Journal of Heat and Mass Transfer, 2009, 52, 2632-2645.	4.8	7
20	Study of Light Scattering by TiO ₂ , Ag, and SiO ₂ Nanofluids with Particle Diameters of 20-60 nm. Journal of Nano Research, 2019, 60, 1-20.	0.8	7
21	Triggering a Self-Sustaining Reduction of Graphenes Oxide for High-Performance Energy Storage Devices. ACS Applied Nano Materials, 2020, 3, 9117-9126.	5.0	7
22	Electronic Thermal Conduction in Thin Gold Films. , 2003, , 715.		6
23	Field emission and electron deposition profiles as a function of carbon nanotube tip geometries. Journal of Applied Physics, 2007, 101, 114313.	2.5	6
24	Unraveling the Mystery of Ternary Organic Solar Cells: A Review on the Influence of Third Component on Structureâ€Morphologyâ€Performance Relationships. Solar Rrl, 2021, 5, 2100503.	5.8	6
25	Torsional frequency analyses of microtubules with end attachments. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 824-842.	1.6	5
26	The impact of internal polarized monochromatic acoustic phonon emission on heat dissipation at nanoscale. International Communications in Heat and Mass Transfer, 2014, 53, 87-96.	5.6	4
27	Sequential Nano-Patterning Using Electron and Laser Beams: A Numerical Methodology. Journal of Computational and Theoretical Nanoscience, 2006, 3, 219-230.	0.4	3
28	Depolarization of Light by Mono-Dispersed Air Bubbles Coated With Carbonaceous Particles. , 2003, , 389.		2
29	Indium Tin Oxide-Based Selective Emitter for Nano-Gap Thermophotovoltaic Applications. Journal of Nano Research, 2017, 49, 127-148.	0.8	2
30	Effect of Doping Concentration on Conversion Efficiency of Silicon Based Nano-gap Near-field Thermophotovoltaic Cells. Journal of Physical Science, 2018, 29, 37-54.	0.9	2
31	Thermal Finite Difference Analysis of Threshold Heating for Nanoscale Machining. , 2002, , 507.		1
32	Analysis of charge, momentum and energy transfer by an impinging sub-keV electron beam on a conductor via Monte Carlo simulation including secondary-electron generation. International Journal of Heat and Mass Transfer, 2012, 55, 7188-7198.	4.8	1
33	A study of phonon anisotropic scattering effect on silicon thermal conductivity at nanoscale. AIP Conference Proceedings, 2015, , .	0.4	1
34	Prediction of thermal conductivity of silicon nanowires via phonon Monte Carlo simulation: Exact treatment of cylindrical boundary. AIP Conference Proceedings, 2015, , .	0.4	1
35	The effect of 10Åµm microchannel on thermo-hydraulic performance for singlephase flow in semi-circular cross-section serpentine. Journal of Mechanical Engineering and Sciences, 2018, 12, 3724-3737.	0.6	1
36	Insights into the influence of magnetic fields on the propagation of elastic wave packets within a piezoelectric micro-scale beams. , 2015, , .		0

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37	Comparative study of attenuation and dispersion of different pressure disturbances propagating in aerosols. AIP Conference Proceedings, 2016, , .	0.4	0
38	Modeling of Light Propagation and Phonon Conduction inside Metallic Nanoparticles Enhanced Thin-Film Solar Cells. Journal of Nano Research, 2016, 38, 26-35.	0.8	0
39	Coupled optical-electrical-thermal simulation for nanoparticles enhanced amorphous silicon solar cells. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107723.	2.3	0
40	Opto-Electro-Thermal Modeling of Thin-Film Hydrogenated Amorphous Silicon (a-Si:H) Photovoltaic Cell. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	0