Yu-Chao Hua

List of Publications by Year
in descending order

34 papers	691 citations	516710 16 h-index	552781 26 g-index
34 all docs	34 docs citations	34 times ranked	413 citing authors

#	Article	IF	Citations
1	Phonon ballistic-diffusive heat conduction in silicon nanofilms by Monte Carlo simulations. International Journal of Heat and Mass Transfer, 2014, 78, 755-759.	4.8	73
2	Ballistic-diffusive heat conduction in multiply-constrained nanostructures. International Journal of Thermal Sciences, 2016, 101, 126-132.	4.9	57
3	Experimental study on single-phase hybrid microchannel cooling using HFE-7100 for liquid-cooled chips. International Journal of Heat and Mass Transfer, 2020, 160, 120230.	4.8	55
4	Thermal Spreading Resistance in Ballistic-Diffusive Regime for GaN HEMTs. IEEE Transactions on Electron Devices, 2019, 66, 3296-3301.	3.0	48
5	Slip Boundary Conditions in Ballisticâ€“Diffusive Heat Transport in Nanostructures. Nanoscale and Microscale Thermophysical Engineering, 2017, 21, 159-176.	2.6	46
6	The effective thermal conductivity of ballisticâ€“diffusive heat conduction in nanostructures with internal heat source. International Journal of Heat and Mass Transfer, 2016, 92, 995-1003.	4.8	39
7	A hybrid phonon Monte Carlo-diffusion method for ballistic-diffusive heat conduction in nano- and micro- structures. International Journal of Heat and Mass Transfer, 2018, 127, 1014-1022.	4.8	36
8	Thermal wave propagation through nanofilms in ballistic-diffusive regime by Monte Carlo simulations. International Journal of Thermal Sciences, 2016, 109, 81-89.	4.9	34
9	Cross-plane heat conduction in nanoporous silicon thin films by phonon Boltzmann transport equation and Monte Carlo simulations. Applied Thermal Engineering, 2017, 111, 1401-1408.	6.0	34
10	Anisotropic Heat Conduction in Two-Dimensional Periodic Silicon Nanoporous Films. Journal of Physical Chemistry C, 2017, 121, 5293-5301.	3.1	25
11	Optimization of the one-dimensional transient heat conduction problems using extended entransy analyses. International Journal of Heat and Mass Transfer, 2018, 116, 166-172.	4.8	25
12	Phonon wave propagation in ballistic-diffusive regime. Journal of Applied Physics, 2016, 119, .	2.5	23
13	An efficient two-step Monte Carlo method for heat conduction in nanostructures. Journal of Computational Physics, 2017, 342, 253-266.	3.8	23
14	Transient thermal conduction optimization for solid sensible heat thermal energy storage modules by the Monte Carlo method. Energy, 2017, 133, 338-347.	8.8	21
15	Irreversibility and Action of the Heat Conduction Process. Entropy, 2018, 20, 206.	2.2	19
16	The least action principle for heat conduction and its optimization application. International Journal of Heat and Mass Transfer, 2017, 105, 697-703.	4.8	18
17	Study of phononic thermal transport across nanostructured interfaces using phonon Monte Carlo method. International Journal of Heat and Mass Transfer, 2020, 154, 119762.	4.8	16
18	Interface-based two-way tuning of the in-plane thermal transport in nanofilms. Journal of Applied Physics, 2018, 123, .	2.5	15

#	Article	IF	Citations
19	Monte Carlo simulation of phonon ballistic diffusive heat conduction in silicon nanofilm. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 244401.	0.5	14
20	A two-sensor 3Ï‰-2Ï‰ method for thermal boundary resistance measurement. Journal of Applied Physics, 2021, 129, .	2.5	11
21	A Review on the Performance Indicators and Influencing Factors for the Thermocline Thermal Energy Storage Systems. Energies, 2021, 14, 8384.	3.1	11
22	Transient in-plane thermal transport in nanofilms with internal heating. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150811.	2.1	8
23	The Principle of Least Action for Reversible Thermodynamic Processes and Cycles. Entropy, 2018, 20, 542.	2.2	7
24	Irreversibility evaluation for transport processes revisited. International Journal of Heat and Mass Transfer, 2022, 189, 122699.	4.8	7
25	Thermomass Theory in the Framework of GENERIC. Entropy, 2020, 22, 227.	2.2	6
26	Reversible reciprocal relation of thermoelectricity. Physical Review E, 2021, 103, 012107.	2.1	6
27	Comments on the statement that the temperature difference field uniformity principle is a duplicate of the principle, Î”T/Tâ€¯=â€¯const, for balanced counter-flow heat exchangers. International Journal of Heat and Mass Transfer, 2018, 127, 1343-1346.	4.8	3
28	An electrical thermometry platform for measuring cross-plane thermal conductivity of 2D flakes on substrate. Applied Physics Letters, 2019, 115, .	3.3	3
29	Two Temperature Extension of Phonon Hydrodynamics. Journal of Non-Equilibrium Thermodynamics, 2020, 45, 291-304.	4.2	3
30	A model for phonon thermal conductivity of multi-constrained nanostructures. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 146501.	0.5	3
31	Microfabrication and Characterization of Parylene AF<inf>4</inf>. , 2018, , .		1
32	Least action principles for irreversible transport processes. Chinese Science Bulletin, 2021, 66, 253-260.	0.7	1
33	Reply to the Comments on: Tian Zhao et al. The Principle of Least Action for Reversible Thermodynamic Processes and Cycles. Entropy 2018, 20, 542. Entropy, 2018, 20, 986.	2.2	0
34	å¼¹é“æ‰©æ•£å¯¼çƒçš„çƒè´¨æ¨¡åž‹. Chinese Science Bulletin, 2015, 60, 2344-2348.	0.7	0