Jian Wang

List of Publications by Year
in descending order

24 papers	736 citations	687220 13 h-index	610775 24 g-index
24 all docs	24 docs citations	24 times ranked	711 citing authors

#	Article	IF	Citations
1	Nonequilibrium Greenâ€™s function approach to mesoscopic thermal transport. Physical Review B, 2006, 74, .	1.1	190
2	Carbon nanotube thermal transport: Ballistic to diffusive. Applied Physics Letters, 2006, 88, 111909.	1.5	143
3	Nonequilibrium Greenâ€™s function method for thermal transport in junctions. Physical Review E, 2007, 75, 061128.	0.8	99
4	Empirical analysis of dependence between stations in Chinese railway network. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2949-2955.	1.2	47
5	Dimensional crossover of thermal conductance in nanowires. Applied Physics Letters, 2007, 90, 241908.	1.5	39
6	Mode-dependent energy transmission across nanotube junctions calculated with a lattice dynamics approach. Physical Review B, 2006, 74, .	1.1	28
7	Tuning thermal transport in nanotubes with topological defects. Applied Physics Letters, 2011, 99, 091905.	1.5	24
8	Characteristics of a piecewise smooth area-preserving map. Physical Review E, 2001, 64, 026202.	0.8	23
9	Optimizing transport efficiency on scale-free networks through assortative or dissortative topology. Physical Review E, 2010, 81, 037101.	0.8	19
10	Characteristics of phonon transmission across epitaxial interfaces: a lattice dynamic study. Journal of Physics Condensed Matter, 2007, 19, 236211.	0.7	17
11	Single-mode phonon transmission in symmetry-broken carbon nanotubes: Role of phonon symmetries. Journal of Applied Physics, 2009, 105, 063509.	1.1	17
12	Valley filtering effect of phonons in graphene with a grain boundary. Physical Review B, 2019, 99, .	1.1	15
13	Tunable thermal conductivity in carbon allotrope sheets: Role of acetylenic linkages. Journal of Applied Physics, 2015, 118, .	1.1	13
14	Multiqubit computing and error-avoiding codes in subspace using quantum dots. Journal of Applied Physics, 2002, 91, 2524-2529.	1.1	11
15	The contact area dependent interfacial thermal conductance. AIP Advances, 2015, 5, .	0.6	10
16	Anomalous energy diffusion in two-dimensional nonlinear lattices. Physical Review E, 2020, 101, 012126.	0.8	9
17	Tuning Thermal Conductivity in Si Nanowires with Patterned Structures. Chinese Physics Letters, 2021, 38, 024401.	1.3	7
18	Dimensional crossover of thermal conductance in graphene nanoribbons: a first-principles approach. Journal of Physics Condensed Matter, 2012, 24, 295403.	0.7	6

#	Article	IF	Citations
19	Decoherence of quantum registers in the weak-coupling limit. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 294, 6-12.	0.9	5
20	Defect-induced selective oxidation of graphene: A first-principles study. Applied Surface Science, 2017, 396, 243-248.	3.1	4
21	Mechanism of large tunable thermal transport in graphene with oxygen functional groups. Journal of Applied Physics, 2018, 124, 175108.	1.1	4
22	The effect of atomistic substitution on thermal transport in large phonon bandgap GaN. Japanese Journal of Applied Physics, 2021, 60, 071003.	0.8	4
23	Characteristics for two kinds of cascading events. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1440-1446.	1.2	1
24	An extended clique degree distribution and its heterogeneity in cooperationâ€“competition networks. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2454-2462.	1.2	1