Wei-rong Zhong

List of Publications by Year
in descending order

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Version: 2024-02-01

26 papers	633 citations	687363 13 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	627 citing authors

#	Article	IF	Citations
1	Chirality and thickness-dependent thermal conductivity of few-layer graphene: A molecular dynamics study. Applied Physics Letters, 2011, 98, .	3.3	163
2	Pure multiplicative stochastic resonance of a theoretical anti-tumor model with seasonal modulability. Physical Review E, 2006, 73, 060902.	2.1	88
3	Thermal rectification in thickness-asymmetric graphene nanoribbons. Applied Physics Letters, 2011, 99, .	3.3	67
4	Rectification and diffusion of self-propelled particles in a two-dimensional corrugated channel. Physical Review E, 2013, 88, 062129.	2.1	61
5	Spatiotemporal fluctuation-induced transition in a tumor model with immune surveillance. Physical Review E, 2006, 74, 011916.	2.1	39
6	Mixing and demixing of binary mixtures of polar chiral active particles. Soft Matter, 2018, 14, 4388-4395.	2.7	38
7	Entropic Ratchet transport of interacting active Brownian particles. Journal of Chemical Physics, 2014, 141, 194111.	3.0	24
8	Thermal control in graphene nanoribbons: thermal valve, thermal switch and thermal amplifier. Nanoscale, 2012, 4, 5217.	5.6	21
9	Different thermal conductance of the inter- and intrachain interactions in a double-stranded molecular structure. Physical Review E, 2010, 81, 061131.	2.1	14
10	Anomalous negative differential thermal resistance in a momentum-conserving lattice. Physical Review E, 2011, 84, 031130.	2.1	13
11	The effect of defects on negative differential thermal resistance in symmetric graphene nanoribbons. Applied Physics Letters, 2014, 104, 013106.	3.3	13
12	Effects of hydrodynamic interactions on rectified transport of self-propelled particles. Physical Review E, 2017, 95, 012116.	2.1	13
13	Giant negative mobility of inertial particles caused by the periodic potential in steady laminar flows. Journal of Chemical Physics, 2018, 149, 164903.	3.0	13
14	Transport diffusion in one dimensional molecular systems: Power law and validity of Fickâ€™s law. AIP Advances, 2015, 5, .	1.3	12
15	T-shaped molecular heat pump. Physical Review B, 2010, 81, .	3.2	11
16	Thermal conductivity of deformed carbon nanotubes. Journal of Applied Physics, 2011, 109, 074317.	2.5	9
17	Rectification and separation of mixtures of active and passive particles driven by temperature difference. Journal of Chemical Physics, 2020, 152, 184903.	3.0	8
18	Shape-dependent collective diffusion coefficient of multi-layers graphene nanopores. RSC Advances, 2015, 5, 99573-99576.	3.6	6

#	Article	IF	Citations
19	Autonomous pump against concentration gradient. Scientific Reports, 2016, 6, 23414.	3.3	5
20	Transport of particles driven by the traveling obstacle arrays. Journal of Chemical Physics, 2018, 149, 174906.	3.0	5
21	Collective diffusion in carbon nanotubes: Crossover between one dimension and three dimensions. Chinese Physics B, 2016, 25, 086601.	1.4	5
22	Thermal conductivity of graphene nanoribbons in noble gaseous environments. Applied Physics Letters, 2014, 104, 081914.	3.3	4
23	Mass Transport Induced by Heat Current in Carbon Nanotubes. Journal of Nanomaterials, 2013, 2013, 1-4.	2.7	1
24	Frequency Selective Energy Transport of the Copper Nanowire Driven by External Force. Journal of the Physical Society of Japan, 2011, 80, 074006.	1.6	0
25	Dynamics of chiral molecules in gaseous environments: validity of the Magnus effect in microscale systems. RSC Advances, 2016, 6, 35785-35791.	3.6	0
26	Controlling the diffusion of bistable active clusters inÂone-dimensional channels. European Physical Journal B, 2022, 95, 1.	1.5	0