

# Wei-rong Zhong

## List of Publications by Year in descending order

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26  
papers

633  
citations

687363

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h-index

642732

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the diffusion of bistable active clusters in one-dimensional channels. <i>European Physical Journal B</i> , 2022, 95, 1.	1.5	0
2	Rectification and separation of mixtures of active and passive particles driven by temperature difference. <i>Journal of Chemical Physics</i> , 2020, 152, 184903.	3.0	8
3	Transport of particles driven by the traveling obstacle arrays. <i>Journal of Chemical Physics</i> , 2018, 149, 174906.	3.0	5
4	Giant negative mobility of inertial particles caused by the periodic potential in steady laminar flows. <i>Journal of Chemical Physics</i> , 2018, 149, 164903.	3.0	13
5	Mixing and demixing of binary mixtures of polar chiral active particles. <i>Soft Matter</i> , 2018, 14, 4388-4395.	2.7	38
6	Effects of hydrodynamic interactions on rectified transport of self-propelled particles. <i>Physical Review E</i> , 2017, 95, 012116.	2.1	13
7	Dynamics of chiral molecules in gaseous environments: validity of the Magnus effect in microscale systems. <i>RSC Advances</i> , 2016, 6, 35785-35791.	3.6	0
8	Autonomous pump against concentration gradient. <i>Scientific Reports</i> , 2016, 6, 23414.	3.3	5
9	Collective diffusion in carbon nanotubes: Crossover between one dimension and three dimensions. <i>Chinese Physics B</i> , 2016, 25, 086601.	1.4	5
10	Transport diffusion in one dimensional molecular systems: Power law and validity of Fick's law. <i>AIP Advances</i> , 2015, 5, .	1.3	12
11	Shape-dependent collective diffusion coefficient of multi-layers graphene nanopores. <i>RSC Advances</i> , 2015, 5, 99573-99576.	3.6	6
12	Entropic Ratchet transport of interacting active Brownian particles. <i>Journal of Chemical Physics</i> , 2014, 141, 194111.	3.0	24
13	The effect of defects on negative differential thermal resistance in symmetric graphene nanoribbons. <i>Applied Physics Letters</i> , 2014, 104, 013106.	3.3	13
14	Thermal conductivity of graphene nanoribbons in noble gaseous environments. <i>Applied Physics Letters</i> , 2014, 104, 081914.	3.3	4
15	Mass Transport Induced by Heat Current in Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-4.	2.7	1
16	Rectification and diffusion of self-propelled particles in a two-dimensional corrugated channel. <i>Physical Review E</i> , 2013, 88, 062129.	2.1	61
17	Thermal control in graphene nanoribbons: thermal valve, thermal switch and thermal amplifier. <i>Nanoscale</i> , 2012, 4, 5217.	5.6	21
18	Thermal rectification in thickness-asymmetric graphene nanoribbons. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	67

#	ARTICLE	IF	CITATIONS
19	Chirality and thickness-dependent thermal conductivity of few-layer graphene: A molecular dynamics study. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	163
20	Anomalous negative differential thermal resistance in a momentum-conserving lattice. <i>Physical Review E</i> , 2011, 84, 031130.	2.1	13
21	Thermal conductivity of deformed carbon nanotubes. <i>Journal of Applied Physics</i> , 2011, 109, 074317.	2.5	9
22	Frequency Selective Energy Transport of the Copper Nanowire Driven by External Force. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 074006.	1.6	0
23	T-shaped molecular heat pump. <i>Physical Review B</i> , 2010, 81, .	3.2	11
24	Different thermal conductance of the inter- and intrachain interactions in a double-stranded molecular structure. <i>Physical Review E</i> , 2010, 81, 061131.	2.1	14
25	Pure multiplicative stochastic resonance of a theoretical anti-tumor model with seasonal modulability. <i>Physical Review E</i> , 2006, 73, 060902.	2.1	88
26	Spatiotemporal fluctuation-induced transition in a tumor model with immune surveillance. <i>Physical Review E</i> , 2006, 74, 011916.	2.1	39