

Jae Sung Lee

List of Publications by Year in descending order

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papers

1,003
citations

840776

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Resistive Switching by Percolative Conducting Filaments in Organometal Perovskite Unipolar Memory Devices Analyzed Using Current Noise Spectra. <i>Advanced Functional Materials</i> , 2022, 32, 2107727.	14.9	8
2	Effects of the non-Markovianity and non-Gaussianity of active environmental noises on engine performance. <i>Physical Review E</i> , 2022, 105, 024130.	2.1	8
3	Geometry-induced rectification for an active object. <i>Physical Review Research</i> , 2021, 3, .	3.6	1
4	Universal form of thermodynamic uncertainty relation for Langevin dynamics. <i>Physical Review E</i> , 2021, 104, L052102.	2.1	17
5	Brownian heat engine with active reservoirs. <i>Physical Review E</i> , 2020, 102, 032116.	2.1	22
6	Exactly solvable two-terminal heat engine with asymmetric Onsager coefficients: Origin of the power-efficiency bound. <i>Physical Review E</i> , 2020, 101, 052132.	2.1	10
7	Carnot Efficiency and Zero-Entropy Production Rate Do Not Guarantee Reversibility of a Process. <i>Journal of the Korean Physical Society</i> , 2019, 75, 948-952.	0.7	8
8	Thermodynamic uncertainty relation for underdamped Langevin systems driven by a velocity-dependent force. <i>Physical Review E</i> , 2019, 100, 062132.	2.1	29
9	Stochastic thermodynamics and hierarchy of fluctuation theorems with multiple reservoirs. <i>New Journal of Physics</i> , 2018, 20, 083010.	2.9	2
10	Additivity of multiple heat reservoirs in the Langevin equation. <i>Physical Review E</i> , 2018, 97, 062135.	2.1	3
11	Carnot efficiency is reachable in an irreversible process. <i>Scientific Reports</i> , 2017, 7, 10725.	3.3	36
12	Brownmillerite thin films as fast ion conductors for ultimate-performance resistance switching memory. <i>Nanoscale</i> , 2017, 9, 10502-10510.	5.6	37
13	Understanding the transition between memory and threshold switching due to the compliance current. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1420-1423.	0.7	1
14	Optimal tuning of a confined Brownian information engine. <i>Physical Review E</i> , 2016, 93, 032146.	2.1	13
15	Resistive switching phenomena: A review of statistical physics approaches. <i>Applied Physics Reviews</i> , 2015, 2, .	11.3	338
16	Ground-state energy of the q-state Potts model: The minimum modularity. <i>Physical Review E</i> , 2014, 90, 052140.	2.1	0
17	Anomalous effect due to oxygen vacancy accumulation below the electrode in bipolar resistance switching Pt/Nb:SrTiO ₃ cells. <i>APL Materials</i> , 2014, 2, .	5.1	39
18	Novel Electroforming-Free Nanoscaffold Memristor with Very High Uniformity, Tunability, and Density. <i>Advanced Materials</i> , 2014, 26, 6284-6289.	21.0	75

#	ARTICLE	IF	CITATIONS
19	Statistical properties of the electrically induced contact resistance between two stainless steel balls. Applied Physics Letters, 2013, 102, 241605.	3.3	1
20	Two opposite hysteresis curves in semiconductors with mobile dopants. Applied Physics Letters, 2013, 102, .	3.3	20
21	Modified saddle-point integral near a singularity for the large deviation function. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P11002.	2.3	5
22	Random Circuit Breaker Network Model for Unipolar Resistance Switching. Advanced Materials, 2008, 20, 1154-1159.	21.0	330