Jae Sung Lee

List of Publications by Year
in descending order

22 papers	1,003 citations	840776 11 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	1528 citing authors

#	Article	IF	Citations
1	Resistive switching phenomena: A review of statistical physics approaches. Applied Physics Reviews, 2015, 2, .	11.3	338
2	Random Circuit Breaker Network Model for Unipolar Resistance Switching. Advanced Materials, 2008, 20, 1154-1159.	21.0	330
3	Novel Electroformingâ€Free Nanoscaffold Memristor with Very High Uniformity, Tunability, and Density. Advanced Materials, 2014, 26, 6284-6289.	21.0	75
4	Anomalous effect due to oxygen vacancy accumulation below the electrode in bipolar resistance switching Pt/Nb:SrTiO3 cells. APL Materials, 2014, 2, .	5.1	39
5	Brownmillerite thin films as fast ion conductors for ultimate-performance resistance switching memory. Nanoscale, 2017, 9, 10502-10510.	5.6	37
6	Carnot efficiency is reachable in an irreversible process. Scientific Reports, 2017, 7, 10725.	3.3	36
7	Thermodynamic uncertainty relation for underdamped Langevin systems driven by a velocity-dependent force. Physical Review E, 2019, 100, 062132.	2.1	29
8	Brownian heat engine with active reservoirs. Physical Review E, 2020, 102, 032116.	2.1	22
9	Two opposite hysteresis curves in semiconductors with mobile dopants. Applied Physics Letters, 2013, 102, .	3.3	20
10	Universal form of thermodynamic uncertainty relation for Langevin dynamics. Physical Review E, 2021, 104, L052102.	2.1	17
11	Optimal tuning of a confined Brownian information engine. Physical Review E, 2016, 93, 032146.	2.1	13
12	Exactly solvable two-terminal heat engine with asymmetric Onsager coefficients: Origin of the power-efficiency bound. Physical Review E, 2020, 101, 052132.	2.1	10
13	Carnot Efficiency and Zero-Entropy Production Rate Do Not Guarantee Reversibility of a Process. Journal of the Korean Physical Society, 2019, 75, 948-952.	0.7	8
14	Resistive Switching by Percolative Conducting Filaments in Organometal Perovskite Unipolar Memory Devices Analyzed Using Current Noise Spectra. Advanced Functional Materials, 2022, 32, 2107727.	14.9	8
15	Effects of the non-Markovianity and non-Gaussianity of active environmental noises on engine performance. Physical Review E, 2022, 105, 024130.	2.1	8
16	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
17	Additivity of multiple heat reservoirs in the Langevin equation. Physical Review E, 2018, 97, 062135.	2.1	3
18	Stochastic thermodynamics and hierarchy of fluctuation theorems with multiple reservoirs. New Journal of Physics, 2018, 20, 083010.	2.9	2

#	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	Understanding the transition between memory and threshold switching due to the compliance current. Journal of the Korean Physical Society, 2016, 68, 1420-1423.	0.7	1
21	Geometry-induced rectification for an active object. Physical Review Research, 2021, 3, .	3.6	1
22	Ground-state energy of theq-state Potts model: The minimum modularity. Physical Review E, 2014, 90, 052140.	2.1	0