

# Naoko Nakagawa

## List of Publications by Year in descending order

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39  
papers

942  
citations

687363

13  
h-index

434195

31  
g-index

39  
all docs

39  
docs citations

39  
times ranked

545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Creep Motion in a Granular Pile Exhibiting Steady Surface Flow. <i>Physical Review Letters</i> , 2001, 86, 1757-1760.	7.8	254
2	From collective oscillations to collective chaos in a globally coupled oscillator system. <i>Physica D: Nonlinear Phenomena</i> , 1994, 75, 74-80.	2.8	103
3	Steady-State Thermodynamics for Heat Conduction: Microscopic Derivation. <i>Physical Review Letters</i> , 2008, 100, 230602.	7.8	85
4	Expression for the Stationary Distribution in Nonequilibrium Steady States. <i>Physical Review Letters</i> , 2008, 100, 030601.	7.8	75
5	Anomalous Lyapunov spectrum in globally coupled oscillators. <i>Physica D: Nonlinear Phenomena</i> , 1995, 80, 307-316.	2.8	56
6	Representation of Nonequilibrium Steady States in Large Mechanical Systems. <i>Journal of Statistical Physics</i> , 2009, 134, 401-423.	1.2	47
7	The inherent structure landscape of a protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5279-5284.	7.1	40
8	Entropy and Nonlinear Nonequilibrium Thermodynamic Relation for Heat Conducting Steady States. <i>Journal of Statistical Physics</i> , 2011, 142, 127-153.	1.2	40
9	A heat pump at a molecular scale controlled by a mechanical force. <i>Europhysics Letters</i> , 2006, 75, 22-28.	2.0	34
10	Collective motion occurs inevitably in a class of populations of globally coupled chaotic elements. <i>Physical Review E</i> , 1998, 57, 1570-1575.	2.1	22
11	Exact Equalities and Thermodynamic Relations for Nonequilibrium Steady States. <i>Journal of Statistical Physics</i> , 2015, 159, 1237-1285.	1.2	20
12	Liquid-Gas Transitions in Steady Heat Conduction. <i>Physical Review Letters</i> , 2017, 119, 260602.	7.8	17
13	Work relation and the second law of thermodynamics in nonequilibrium steady states. <i>Physical Review E</i> , 2012, 85, 051115.	2.1	16
14	Relaxation, the Boltzmann-Jeans conjecture, and chaos. <i>Physical Review E</i> , 2001, 64, 055205.	2.1	13
15	Hidden heat transfer in equilibrium states implies directed motion in nonequilibrium states. <i>Physical Review E</i> , 2006, 73, 065107.	2.1	13
16	Energy Storage in a Hamiltonian System in Partial Contact with a Heat Bath. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 1255-1258.	1.6	12
17	Modeling protein thermodynamics and fluctuations at the mesoscale. <i>Physical Review E</i> , 2006, 74, 041916.	2.1	9
18	Global Thermodynamics for Heat Conduction Systems. <i>Journal of Statistical Physics</i> , 2019, 177, 825-888.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Confined chaotic behavior in collective motion for populations of globally coupled chaotic elements. <i>Physical Review E</i> , 1999, 59, 1675-1682.	2.1	7
20	Dynamical mechanism for the conversion of energy at a molecular scale. <i>Physical Review E</i> , 2003, 67, 040901.	2.1	7
21	Conformational Temperature Characterizing the Folding of a Protein. <i>Physical Review Letters</i> , 2007, 98, 128104.	7.8	7
22	Oriented Process Induced by Dynamically Regulated Energy Barriers. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1653-1656.	1.6	6
23	Stationary Distribution and Thermodynamic Relation in Nonequilibrium Steady States. <i>Progress of Theoretical Physics Supplement</i> , 2010, 184, 329-338.	0.1	6
24	Universal expression for adiabatic pumping in terms of nonequilibrium steady states. <i>Physical Review E</i> , 2014, 90, 022108.	2.1	6
25	Numerical determination of entropy associated with excess heat in steady-state thermodynamics. <i>Physical Review E</i> , 2016, 94, 022115.	2.1	6
26	Stochastic order parameter dynamics for phase coexistence in heat conduction. <i>Physical Review E</i> , 2021, 103, 062129.	2.1	6
27	Dynamically regulated energy barriers with violation of symmetry for reaction path. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 361, 216-232.	2.6	5
28	Energy conversion by autonomous regulation of chaos: Dynamical mechanism of loose coupling. <i>Chaos</i> , 2003, 13, 1032-1040.	2.5	4
29	Unattainability of Carnot efficiency in thermal motors: Coarse graining and entropy production of Feynman-Smoluchowski ratchets. <i>Physical Review E</i> , 2018, 98, 022102.	2.1	4
30	Autonomous energy transducer: proposition, example, basic characteristics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 511-536.	2.6	3
31	Work relations for time-dependent states. <i>Physical Review E</i> , 2013, 87, 022109.	2.1	3
32	Long-Term Relaxation of a Composite System in Partial Contact with a Heat Bath. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 3214-3222.	1.6	2
33	Dynamical Regulation of Transition States Resulting from Heat Flow. <i>Progress of Theoretical Physics Supplement</i> , 2006, 161, 290-293.	0.1	1
34	Critical examination of the inherent-structure-landscape analysis of two-state folding proteins. <i>Physical Review E</i> , 2009, 80, 061907.	2.1	1
35	Characterization of the low-temperature properties of a simplified protein model. <i>Physical Review E</i> , 2014, 89, 012705.	2.1	1
36	Multiplicative Langevin equation to reproduce long-time properties of nonequilibrium Brownian motion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 013201.	2.3	1

#	ARTICLE	IF	CITATIONS
37	Work relation for determining the mixing free energy of small-scale mixtures. Physical Review Research, 2022, 4, .	3.6	1
38	Proposition of autonomous energy transducer and its working mechanism. , 2004, , .		0
39	Effective Langevin equations leading to large deviation function of time-averaged velocity for a nonequilibrium Rayleigh piston. Physical Review E, 2021, 103, 022125.	2.1	0