

Kumiko Hayashi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3782201/publications.pdf>

Version: 2024-02-01

32
papers

510
citations

933447

10
h-index

677142

22
g-index

37
all docs

37
docs citations

37
times ranked

373
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluctuation Theorem Applied to $\langle F \rangle$. Physical Review Letters, 2010, 104, 218103.	7.8	146
2	Effective temperature in nonequilibrium steady states of Langevin systems with a tilted periodic potential. Physical Review E, 2004, 69, 066119.	2.1	56
3	Giant Acceleration of Diffusion Observed in a Single-Molecule Experiment on $\langle F \rangle$. Physical Review Letters, 2015, 114, 248101.	7.8	32
4	Violation of the Fluctuation-Dissipation Theorem in a Protein System. Biophysical Journal, 2007, 93, 895-901.	0.5	29
5	Thermodynamic relations in a driven lattice gas: Numerical experiments. Physical Review E, 2003, 68, 035104.	2.1	26
6	The law of action and reaction for the effective force in a non-equilibrium colloidal system. Journal of Physics Condensed Matter, 2006, 18, 2825-2836.	1.8	25
7	Non-invasive force measurement reveals the number of active kinesins on a synaptic vesicle precursor in axonal transport regulated by ARL-8. Physical Chemistry Chemical Physics, 2018, 20, 3403-3410.	2.8	25
8	Catalysis-Enhancement via Rotary Fluctuation of F1-ATPase. Biophysical Journal, 2013, 105, 2385-2391.	0.5	24
9	Linear response theory in stochastic many-body systems revisited. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 407-429.	2.6	18
10	Application of the fluctuation theorem for noninvasive force measurement in living neuronal axons. Molecular Biology of the Cell, 2018, 29, 3017-3025.	2.1	12
11	Application of the fluctuation theorem to motor proteins: from F1-ATPase to axonal cargo transport by kinesin and dynein. Biophysical Reviews, 2018, 10, 1311-1321.	3.2	12
12	Investigation of multiple-dynein transport of melanosomes by non-invasive force measurement using fluctuation unit $\dot{\xi}$. Scientific Reports, 2019, 9, 5099.	3.3	12
13	Decomposition of force fluctuations far from equilibrium. Physical Review E, 2005, 71, 020102.	2.1	11
14	Measurements of the driving forces of bio-motors using the fluctuation theorem. Biophysics (Nagoya-shi, Japan), 2012, 8, 67-72.	0.4	11
15	Extended Einstein relations with a complex effective temperature in a one-dimensional driven lattice gas. Physical Review E, 2005, 71, 046143.	2.1	10
16	F-subunit reinforces torque generation in V-ATPase. European Biophysics Journal, 2014, 43, 415-422.	2.2	9
17	Physical parameters describing neuronal cargo transport by kinesin UNC-104. Biophysical Reviews, 2019, 11, 471-482.	3.2	8
18	A special issue of the Australian society for Biophysics. Biophysical Reviews, 2022, 14, 1-2.	3.2	6

#	ARTICLE	IF	CITATIONS
19	Effects of dynein inhibitor on the number of motor proteins transporting synaptic cargos. Biophysical Journal, 2021, 120, 1605-1614.	0.5	5
20	Fluctuation Theorem Applied to <i>Dictyostelium discoideum</i> System. Journal of the Physical Society of Japan, 2007, 76, 105001.	1.6	4
21	PROTEIN MOTOR $F_{1/2}$ AS A MODEL SYSTEM FOR FLUCTUATION THEORIES OF NON-EQUILIBRIUM STATISTICAL MECHANICS. Fluctuation and Noise Letters, 2012, 11, 1241001.	1.5	4
22	Characterization on magnetophoretic velocity of the cluster of submicron-sized composite particles applicable to magnetic separation and purification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 141-146.	4.7	4
23	Announcing the call for the Special Issue on “The Australian Society for Biophysics (ASB) 2021 Meeting”. Biophysical Reviews, 2021, 13, 485-486.	3.2	3
24	Fluctuation-dissipation relations outside the linear response regime in a two-dimensional driven lattice gas along the direction transverse to the driving force. Physical Review E, 2005, 72, 047105.	2.1	2
25	Japan-US symposium on cytoskeletal motor proteins and their associated proteins. Biophysics and Physicobiology, 2021, 18, 241-243.	1.0	2
26	Fluctuation Theorem Applied to Bio-motors. Seibutsu Butsuri, 2011, 51, 188-189.	0.1	2
27	Structural Fluctuation and Catalytic Function of F1-ATPase. Biophysical Journal, 2011, 100, 226a.	0.5	0
28	3P170 F-subunit reinforces torque generation in V-ATPase(11. Molecular motor,Poster). Seibutsu Butsuri, 2013, 53, S240.	0.1	0
29	Giant enhancement of fluctuation in small biological systems under external fields. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054028.	2.3	0
30	Non-equilibrium Statistical Mechanics for Fluctuations in a Cell. Seibutsu Butsuri, 2012, 52, 118-119.	0.1	0
31	Number of Kinesins on a Synaptic Vesicle Precursor. Seibutsu Butsuri, 2018, 58, 319-320.	0.1	0
32	What is the temperature of a cell?. Europhysics News, 2020, 51, 48-50.	0.3	0