Kumiko Hayashi

List of Publications by Year
in descending order

32	510	933447	677142
papers	citations	10	22
		h-index	g-index

37	37	37	373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A special issue of the Australian society for Biophysics. Biophysical Reviews, 2022, 14, 1-2.	3.2	6
2	Effects of dynein inhibitor on the number of motor proteins transporting synaptic cargos. Biophysical Journal, 2021, 120, 1605-1614.	0.5	5
3	Announcing the call for the Special Issue on â€œThe Australian Society for Biophysics (ASB) â€" 2021 Meetingâ€. Biophysical Reviews, 2021, 13, 485-486.	3.2	3
4	Japan-US symposium on cytoskeletal motor proteins and their associated proteins. Biophysics and Physicobiology, 2021, 18, 241-243.	1.0	2
5	What is the temperature of a cell?. Europhysics News, 2020, 51, 48-50.	0.3	0
6	Physical parameters describing neuronal cargo transport by kinesin UNC-104. Biophysical Reviews, 2019, 11, 471-482.	3.2	8
7	Investigation of multiple-dynein transport of melanosomes by non-invasive force measurement using fluctuation unit Î‡. Scientific Reports, 2019, 9, 5099.	3.3	12
8	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
9	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
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	Number of Kinesins on a Synaptic Vesicle Precursor. Seibutsu Butsuri, 2018, 58, 319-320.	0.1	0
13	Giant enhancement of fluctuation in small biological systems under external fields. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054028.	2.3	0
14	Giant Acceleration of Diffusion Observed in a Single-Molecule Experiment on F_1 â ... Physical Review Letters, 2015, 114, 248101.	7.8	32
15	F-subunit reinforces torque generation in V-ATPase. European Biophysics Journal, 2014, 43, 415-422.	2.2	9
16	Catalysis-Enhancement via Rotary Fluctuation of F1-ATPase. Biophysical Journal, 2013, 105, 2385-2391.	0.5	24
17	3P170 F-subunit reinforces torque generation in V-ATPase(11. Molecular motor,Poster). Seibutsu Butsuri, 2013, 53, S240.	0.1	0
18	Measurements of the driving forces of bio-motors using the fluctuation theorem. Biophysics (Nagoya-shi, Japan), 2012, 8, 67-72.	0.4	11

#	Article	IF	Citations
19	PROTEIN MOTOR F_1 AS A MODEL SYSTEM FOR FLUCTUATION THEORIES OF NON-EQUILIBRIUM STATISTICAL MECHANICS. Fluctuation and Noise Letters, 2012, 11, 1241001.	1.5	4
20	Non-equilibrium Statistical Mechanics for Fluctuations in a Cell. Seibutsu Butsuri, 2012, 52, 118-119.	0.1	0
21	Structural Fluctuation and Catalytic Function of F1-ATPase. Biophysical Journal, 2011, 100, 226a.	0.5	0
22	Fluctuation Theorem Applied to Bio-motors. Seibutsu Butsuri, 2011, 51, 188-189.	0.1	2
23	Fluctuation Theorem Applied to F_1-ATPase. Physical Review Letters, 2010, 104, 218103.	7.8	146
24	Violation of the Fluctuation-Dissipation Theorem in a Protein System. Biophysical Journal, 2007, 93, 895-901.	0.5	29
25	Fluctuation Theorem Applied to *Dictyostelium discoideum* System. Journal of the Physical Society of Japan, 2007, 76, 105001.	1.6	4
26	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
27	Linear response theory in stochastic many-body systems revisited. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 407-429.	2.6	18
28	Extended Einstein relations with a complex effective temperature in a one-dimensional driven lattice gas. Physical Review E, 2005, 71, 046143.	2.1	10
29	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
30	Decomposition of force fluctuations far from equilibrium. Physical Review E, 2005, 71, 020102.	2.1	11
31	Effective temperature in nonequilibrium steady states of Langevin systems with a tilted periodic potential. Physical Review E, 2004, 69, 066119.	2.1	56
32	Thermodynamic relations in a driven lattice gas: Numerical experiments. Physical Review E, 2003, 68, 035104.	2.1	26