Masayoshi Nishiyama

List of Publications by Year
in descending order

21 papers	1,003 citations	623734 14 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	750 citing authors

#	Article	IF	Citations
1	A Novel Lysophosphatidic Acid Acyltransferase of Escherichia coli Produces Membrane Phospholipids with a cis-vaccenoyl Group and Is Related to Flagellar Formation. Biomolecules, 2020, 10, 745.	4.0	5
2	High hydrostatic pressure induces vigorous flagellar beating in Chlamydomonas non-motile mutants lacking the central apparatus. Scientific Reports, 2020, 10, 2072.	3.3	16
3	High pressure inhibits signaling protein binding to the flagellar motor and bacterial chemotaxis through enhanced hydration. Scientific Reports, 2020, 10, 2351.	3.3	12
4	Tree of motility â€“ A proposed history of motility systems in the tree of life. Genes To Cells, 2020, 25, 6-21.	1.2	108
5	Session 1SHAâ€”control of biological functions with hydrostatic pressure stimulation. Biophysical Reviews, 2020, 12, 269-270.	3.2	0
6	High-pressure microscopy for tracking dynamic properties of molecular machines. Biophysical Chemistry, 2017, 231, 71-78.	2.8	19
7	Reversible Morphological Control of Tubulin-Encapsulating Giant Liposomes by Hydrostatic Pressure. Langmuir, 2016, 32, 3794-3802.	3.5	50
8	Single-Molecule Analysis of the Rotation of F1-ATPase under High Hydrostatic Pressure. Biophysical Journal, 2013, 105, 1635-1642.	0.5	15
9	High Hydrostatic Pressure Induces Counterclockwise to Clockwise Reversals of the Escherichia coli Flagellar Motor. Journal of Bacteriology, 2013, 195, 1809-1814.	2.2	39
10	Glycine Insertion Makes Yellow Fluorescent Protein Sensitive to Hydrostatic Pressure. PLoS ONE, 2013, 8, e73212.	2.5	22
11	Bacterial Motility Measured by a Miniature Chamber for High-Pressure Microscopy. International Journal of Molecular Sciences, 2012, 13, 9225-9239.	4.1	26
12	Microscopic Analysis of Bacterial Motility at High Pressure. Biophysical Journal, 2012, 102, 1872-1880.	0.5	37
13	Microtubule depolymerization at high pressure. Annals of the New York Academy of Sciences, 2010, 1189, 86-90.	3.8	8
14	Pressure-Induced Changes in the Structure and Function of the Kinesin-Microtubule Complex. Biophysical Journal, 2009, 96, 1142-1150.	0.5	37
15	A line-scanning semi-confocal multi-photon fluorescence microscope with a simultaneous broadband spectral acquisition and its application to the study of the thylakoid membrane of a cyanobacterium Anabaena PCC7120. Journal of Microscopy, 2007, 228, 240-254.	1.8	35
16	Single molecule thermodynamics in biological motors. BioSystems, 2007, 88, 283-292.	2.0	12
17	Entropy rectifies the Brownian steps of kinesin. Nature Chemical Biology, 2005, 1, 342-347.	8.0	106
18	Mechano-chemical Coupling of Molecular Motors Revealed by Single Molecule Measurements. Current Protein and Peptide Science, 2004, 5, 81-87.	1.4	17

#	Article	IF	Citations
19	Single molecule processes on the stepwise movement of ATP-driven molecular motors. BioSystems, 2003, 71, 145-156.	2.0	29
20	Chemomechanical coupling of the forward and backward steps of single kinesin molecules. Nature Cell Biology, 2002, 4, 790-797.	10.3	270
21	Substeps within the 8-nm step of the ATPase cycle of single kinesin molecules. Nature Cell Biology, 2001, 3, 425-428.	10.3	140