Makoto Suzuki

List of Publications by Year
in descending order

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Version: 2024-02-01

71	970	430442	476904
papers	citations	18 h-index	29 g-index

73	73	73	810
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of the VDW interaction converting DMAPS from the thermal-motion form to the hydrogen-bonded form. Scientific Reports, 2019, 9, 13104.	1.6	6
2	Fast and effective mitochondrial delivery of Ï‰-Rhodamine-B-polysulfobetaine-PEG copolymers. Scientific Reports, 2018, 8, 1128.	1.6	19
3	Novel Intermolecular Surface Force Unveils the Driving Force of the Actomyosin System. , 2018, , 257-274.		1
4	Spatial Distribution of Ionic Hydration Energy and Hyper-Mobile Water. , 2018, , 33-52.		1
5	Drastic Compensation of Electronic and Solvation Effects on ATP Hydrolysis Revealed through Large-Scale QM/MM Simulations Combined with a Theory of Solutions. Journal of Physical Chemistry B, 2017, 121, 2279-2287.	1.2	16
6	Physical driving force of actomyosin motility based on the hydration effect. Cytoskeleton, 2017, 74, 512-527.	1.0	9
7	Strong Dependence of Hydration State of F-Actin on the Bound Mg2+/Ca2+ Ions. Journal of Physical Chemistry B, 2016, 120, 6917-6928.	1.2	10
8	Spatial-Decomposition Analysis of Energetics of Ionic Hydration. Journal of Physical Chemistry B, 2016, 120, 1813-1821.	1.2	25
9	Membrane Translocation and Organelle-Selective Delivery Steered by Polymeric Zwitterionic Nanospheres. Biomacromolecules, 2016, 17, 1523-1535.	2.6	32
10	Rotational motion of rhodamine 6G tethered to actin through oligo(ethylene glycol) linkers studied by frequency-domain fluorescence anisotropy. Biophysics and Physicobiology, 2015, 12, 87-102.	0.5	1
11	Dynamic transformations of self-assembled polymeric microspheres induced by AC voltage and shear flow. RSC Advances, 2015, 5, 14851-14857.	1.7	2
12	Trading polymeric microspheres: Exchanging DNA molecules via microsphere interaction. Colloids and Surfaces B: Biointerfaces, 2015, 128, 94-99.	2.5	8
13	What is â€œhypermobileâ€•water?: detected in alkali halide, adenosine phosphate, and F-actin solutions by high-resolution microwave dielectric spectroscopy. Pure and Applied Chemistry, 2014, 86, 181-189.	0.9	12
14	Temperature-responsive telechelic dipalmitoylglyceryl poly(N-isopropylacrylamide) vesicles: real-time morphology observation in aqueous suspension and in the presence of giant liposomes. Chemical Communications, 2014, 50, 8350-8352.	2.2	11
15	Selfâ€Assembled Microspheres Driven by Dipoleâ€Dipole Interactions: UCSTâ€Type Transition in Water. Macromolecular Rapid Communications, 2014, 35, 103-108.	2.0	23
16	Comparative Study on the Properties of Hydration Water of Na- and K-Halide Ions by Raman OH/OD-stretching Spectroscopy and Dielectric Relaxation Data. Journal of Physical Chemistry A, 2014, 118, 2922-2930.	1.1	21
17	Hydration-State Change of Horse Heart Cytochrome c Corresponding to Trifluoroacetic-Acid-Induced Unfolding. Biophysical Journal, 2013, 104, 163-172.	0.2	13
18	1,3-Diethylurea-enhanced Mg-ATPase activity of skeletal muscle myosin with a converse effect on the sliding motility. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2620-2629.	1.1	2

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19	Anion-Dependence of Fast Relaxation Component in Na-, K-Halide Solutions at Low Concentrations Measured by High-Resolution Microwave Dielectric Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 4851-4862.	1.1	9
20	Molecular dynamics study of fast dielectric relaxation of water around a molecular-sized ion. Journal of Chemical Physics, 2012, 137, 224502.	1.2	19
21	Hyper-mobility of water around actin filaments revealed using pulse-field gradient spin-echo 1H NMR and fluorescence spectroscopy. Biochemical and Biophysical Research Communications, 2011, 404, 985-990.	1.0	12
22	1SG-02 Unidirectional conformational changes of actin filaments : possible implications in force generation by myosin(1SG Asymmetryproduced by water and ATP,The 49th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.0	0
23	Hydration properties of adenosine phosphate series as studied by microwave dielectric spectroscopy. Biophysical Chemistry, 2011, 154, 1-7.	1.5	25
24	Biophysics Laboratories that Experienced the Higashinihon Earthquake. Seibutsu Butsuri, 2011, 51, 192-195.	0.0	0
25	3P051 Hydration study of trifluoroacetic acid-induced unfolding of horse heart cytochrome c by dielectric relaxation spectroscopy(Protein: Property,The 48th Annual Meeting of the Biophysical) Tj ETQq1 1 0.784314 rgBT /Overlock	0.0	0
26	2P200 Sequential measurement of ATP aqueous solution hydrolyzed by acto-S1 by dielectric relaxation spectroscopy(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S117.	0.0	0
27	3P133 Water mobility around actin is increased by the polymerization(Muscle,The 48th Annual Meeting) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
28	1P148 1E1310 Hydration properties of ATP and phosphate : correlation with the thermodynamic parameters(Water & Hydration & Electrolyte,Oral Presentations,Oral Presentations,The 48th Annual) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0
29	2SB0925 Dynamic properties of water hydrating ATP(2SB Molecular Basis of ATP Energy,The 48th) Tj ETQq1 1 0.784314 rgBT /Overlock	0.0	0
30	Hydration analysis of Pseudomonas aeruginosa cytochrome c551 upon acid unfolding by dielectric relaxation spectroscopy. Biophysical Chemistry, 2010, 151, 160-169.	1.5	16
31	Entropic potential field formed for a linear-motor protein near a filament: Statistical-mechanical analyses using simple models. Journal of Chemical Physics, 2010, 133, 045103.	1.2	27
32	3P130 Hydration analysis of DNA/RNA oligomers by dielectric relaxation spectroscopy(Water &) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Butsuri, 2010, 50, S167-S168.	0.0	0
33	3P-137 Accelerated proton diffusion coefficient in actin aqueous solutions revealed by pulse field gradient spin echo proton NMR : Effect of actin polymerization(Molecular motor,The 47th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock	0.0	0
34	A statistical-mechanical analysis on the hypermobile water around a large solute with high surface charge density. Journal of Chemical Physics, 2009, 130, 014707.	1.2	33
35	1P-110 Effect of hyper-mobile water on the swelling of polyelectrolyte hydrogels(Water, Hydration &) Tj ETQq1 1 0.784314 rgBT /Overlock S80.	0.0	0
36	1P-112 Dielectric hydration analysis of the negative entropy change for the neutralization of sodium dihydrogenphosphate solutions and application for ATP hydrolysis system(Water, Hydration &) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 S81.	0.0	0

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37	Measurement of the Dielectric Relaxation Property of Waterâ^'Ion Loose Complex in Aqueous Solutions of Salt at Low Concentrations. Journal of Physical Chemistry A, 2008, 112, 10801-10806.	1.1	21
38	3P-118 Hydration change in ATP hydrolysis system as measured by dielectric spectroscopy(The 46th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0
39	2P-074 Hydration study of native and acid-unfolded cytochrome c551 of Pseudomonas aeruginosa by dielectric relaxation spectroscopy(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S86.	0.0	0
40	3P-115 A theoretical analysis on the hyper-mobile water molecules near a solute(The 46th Annual) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
41	3P116 Effect of polymers as water structure maker or breaker on the visible light absorption spectra of phenol red solution(Water, hydration, and elctrolytes,Poster Presentations). Seibutsu Butsuri, 2007, 47, S232.	0.0	0
42	3P118 Effect of NaCl on the hydration property of rigid charge PBDT, poly(biphenyl disulfonic acid) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2007, 47, S232.	0.0	0
43	1P156 Evidence of hyper-mobile water : Enhanced proton diffusion coefficients in F-actin solutions with bound myosin S1 by PFG-SE NMR(Muscle-muscle proteins and contraction,Oral Presentations). Seibutsu Butsuri, 2007, 47, S62.	0.0	0
44	3P119 Spatial variation analysis of dielectric relaxation property of water around solute(Water,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.0	0
45	Rotational Mobility of Water around Muscle Proteins by High-Resolution Microwave Dielectric Spectroscopy and a Clue to Molecular Mechanism of Muscle Contraction. Seibutsu Butsuri, 2007, 47, 295-301.	0.0	0
46	S3f1-3 Dielectric relaxation study of protein hydration and hyper-mobile water found around actin filaments(S3-f1: "Hydration Effects on Structure and Thermodynamics of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 Td (Proteins,Sympo	0.0	0
47	Evidence against essential roles for subdomain 1 of actin in actomyosin sliding movements. Biochemical and Biophysical Research Communications, 2005, 332, 474-481.	1.0	3
48	Cooperative structural change of actin filaments interacting with activated myosin motor domain, detected with copolymers of pyrene-labeled actin and acto-S1 chimera protein. Biochemical and Biophysical Research Communications, 2005, 337, 1185-1191.	1.0	22
49	Modulation of actomyosin motor function by 1-hexanol. Journal of Muscle Research and Cell Motility, 2004, 25, 77-85.	0.9	4
50	Myosin-induced volume increase of the hyper-mobile water surrounding actin filaments. Biochemical and Biophysical Research Communications, 2004, 322, 340-346.	1.0	45
51	Hyper-Mobile Water Is Induced around Actin Filaments. Biophysical Journal, 2003, 85, 3154-3161.	0.2	92
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53	Water-Induced Crystallization of Hydrogels. Langmuir, 2002, 18, 965-967.	1.6	20
54	Design and functional analysis of actomyosin motor domain chimera proteins. Biochemical and Biophysical Research Communications, 2002, 299, 825-831.	1.0	9

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55	Hydration of Apomyoglobin in Native, Molten Globule, and Unfolded States by Using Microwave Dielectric Spectroscopy. Biophysical Journal, 2002, 82, 418-425.	0.2	31
56	Hydration Study of Globular Proteins by Microwave Dielectric Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 12622-12627.	1.2	52
57	Motor Protein Mechanism Coupled with Hydrophobic Hydration/Dehydration Cycle. , 2000, , 361-369.		1
58	Hydrophobic Hydration Analysis on Amino Acid Solutions by the Microwave Dielectric Method. Journal of Physical Chemistry B, 1997, 101, 3839-3845.	1.2	55
59	Potential of mean force calculation of solute molecules in water by a modified solvent-accessible surface method. Journal of Computational Chemistry, 1997, 18, 1656-1663.	1.5	8
60	Hydration Study of Proteins in Solution by Microwave Dielectric Analysis. The Journal of Physical Chemistry, 1996, 100, 7279-7282.	2.9	73
61	Octane/Water Interfacial Tension Calculation by Molecular Dynamics Simulation. Journal of Colloid and Interface Science, 1996, 180, 188-192.	5.0	17
62	Crucial influences of K33/K11 ratio on viewing angle of display mode using a bendâ€alignment liquidâ€crystal cell with a compensator. Applied Physics Letters, 1996, 68, 1461-1463.	1.5	50
63	New concept of a hydrophobicity motor based on local hydrophobicity transition of functional polymer substrate for micro/nano machines. Polymer Gels and Networks, 1994, 2, 279-287.	0.6	4
64	Translational motion of a polymer gel microrod via electrically induced wave propagation. Materials Science and Engineering C, 1993, 1, 1-9.	3.8	1
65	Microscale evaluation of the viscoelastic properties of polymer gel for artificial muscles using transmission acoustic microscopy. Journal of Applied Physics, 1993, 74, 6407-6412.	1.1	10
66	Amphoteric Polyvinyl Alcohol Hydrogel and Electrohydrodynamic Control Method for Artificial Muscles. , 1991, , 221-236.		29
67	Amphoteric poly(vinyl alcohol) hydrogel as a material of artificial muscle.. Kobunshi Ronbunshu, 1989, 46, 603-611.	0.2	22
68	Propagating transitions of electroconvection. Physical Review A, 1985, 31, 2548-2555.	1.0	9
69	Relative stabilities of metastable states of convecting charged-fluid systems by computer simulation. Physical Review A, 1983, 27, 478-489.	1.0	17
70	Nonlinear oscillations of a polarâ€liquid column under unipolarâ€ion injection. Journal of Applied Physics, 1980, 51, 5667-5674.	1.1	11
71	Electric Charging of Particles Near the Corona Glow Region in Air-CO2 Mixtures. IEEE Transactions on Industry Applications, 1979, IA-15, 276-287.	3.3	7