

Makoto Suzuki

List of Publications by Year in descending order

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71
papers

970
citations

430442

18
h-index

476904

29
g-index

73
all docs

73
docs citations

73
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyper-Mobile Water Is Induced around Actin Filaments. <i>Biophysical Journal</i> , 2003, 85, 3154-3161.	0.2	92
2	Hydration Study of Proteins in Solution by Microwave Dielectric Analysis. <i>The Journal of Physical Chemistry</i> , 1996, 100, 7279-7282.	2.9	73
3	Hydrophobic Hydration Analysis on Amino Acid Solutions by the Microwave Dielectric Method. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3839-3845.	1.2	55
4	Hydration Study of Globular Proteins by Microwave Dielectric Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 12622-12627.	1.2	52
5	Crucial influences of K33/K11 ratio on viewing angle of display mode using a bendâ€alignment liquidâ€crystal cell with a compensator. <i>Applied Physics Letters</i> , 1996, 68, 1461-1463.	1.5	50
6	Myosin-induced volume increase of the hyper-mobile water surrounding actin filaments. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 340-346.	1.0	45
7	A statistical-mechanical analysis on the hypermobile water around a large solute with high surface charge density. <i>Journal of Chemical Physics</i> , 2009, 130, 014707.	1.2	33
8	Membrane Translocation and Organelle-Selective Delivery Steered by Polymeric Zwitterionic Nanospheres. <i>Biomacromolecules</i> , 2016, 17, 1523-1535.	2.6	32
9	Hydration of Apomyoglobin in Native, Molten Globule, and Unfolded States by Using Microwave Dielectric Spectroscopy. <i>Biophysical Journal</i> , 2002, 82, 418-425.	0.2	31
10	Amphoteric Polyvinyl Alcohol Hydrogel and Electrohydrodynamic Control Method for Artificial Muscles. , 1991, , 221-236.		29
11	Entropic potential field formed for a linear-motor protein near a filament: Statistical-mechanical analyses using simple models. <i>Journal of Chemical Physics</i> , 2010, 133, 045103.	1.2	27
12	Hydration properties of adenosine phosphate series as studied by microwave dielectric spectroscopy. <i>Biophysical Chemistry</i> , 2011, 154, 1-7.	1.5	25
13	Spatial-Decomposition Analysis of Energetics of Ionic Hydration. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1813-1821.	1.2	25
14	Selfâ€Assembled Microspheres Driven by Dipoleâ€Dipole Interactions: UCSTâ€Type Transition in Water. <i>Macromolecular Rapid Communications</i> , 2014, 35, 103-108.	2.0	23
15	Amphoteric poly(vinyl alcohol) hydrogel as a material of artificial muscle.. <i>Kobunshi Ronbunshu</i> , 1989, 46, 603-611.	0.2	22
16	Cooperative structural change of actin filaments interacting with activated myosin motor domain, detected with copolymers of pyrene-labeled actin and acto-S1 chimera protein. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 1185-1191.	1.0	22
17	Measurement of the Dielectric Relaxation Property of Waterâ€Ion Loose Complex in Aqueous Solutions of Salt at Low Concentrations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10801-10806.	1.1	21
18	Comparative Study on the Properties of Hydration Water of Na- and K-Halide Ions by Raman OH/OD-stretching Spectroscopy and Dielectric Relaxation Data. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2922-2930.	1.1	21

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19	Water-Induced Crystallization of Hydrogels. <i>Langmuir</i> , 2002, 18, 965-967.	1.6	20
20	Molecular dynamics study of fast dielectric relaxation of water around a molecular-sized ion. <i>Journal of Chemical Physics</i> , 2012, 137, 224502.	1.2	19
21	Fast and effective mitochondrial delivery of 100-Rhodamine-B-polysulfobetaine-PEG copolymers. <i>Scientific Reports</i> , 2018, 8, 1128.	1.6	19
22	Relative stabilities of metastable states of convecting charged-fluid systems by computer simulation. <i>Physical Review A</i> , 1983, 27, 478-489.	1.0	17
23	Octane/Water Interfacial Tension Calculation by Molecular Dynamics Simulation. <i>Journal of Colloid and Interface Science</i> , 1996, 180, 188-192.	5.0	17
24	Hydration analysis of <i>Pseudomonas aeruginosa</i> cytochrome c551 upon acid unfolding by dielectric relaxation spectroscopy. <i>Biophysical Chemistry</i> , 2010, 151, 160-169.	1.5	16
25	Drastic Compensation of Electronic and Solvation Effects on ATP Hydrolysis Revealed through Large-Scale QM/MM Simulations Combined with a Theory of Solutions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2279-2287.	1.2	16
26	Hydration-State Change of Horse Heart Cytochrome c Corresponding to Trifluoroacetic-Acid-Induced Unfolding. <i>Biophysical Journal</i> , 2013, 104, 163-172.	0.2	13
27	Hyper-mobility of water around actin filaments revealed using pulse-field gradient spin-echo 1H NMR and fluorescence spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 985-990.	1.0	12
28	What is "hypermobile" water?: detected in alkali halide, adenosine phosphate, and F-actin solutions by high-resolution microwave dielectric spectroscopy. <i>Pure and Applied Chemistry</i> , 2014, 86, 181-189.	0.9	12
29	Nonlinear oscillations of a polar liquid column under unipolar ion injection. <i>Journal of Applied Physics</i> , 1980, 51, 5667-5674.	1.1	11
30	Temperature-responsive telechelic dipalmitoylglycerol poly(N-isopropylacrylamide) vesicles: real-time morphology observation in aqueous suspension and in the presence of giant liposomes. <i>Chemical Communications</i> , 2014, 50, 8350-8352.	2.2	11
31	Microscale evaluation of the viscoelastic properties of polymer gel for artificial muscles using transmission acoustic microscopy. <i>Journal of Applied Physics</i> , 1993, 74, 6407-6412.	1.1	10
32	Strong Dependence of Hydration State of F-Actin on the Bound Mg ²⁺ /Ca ²⁺ Ions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6917-6928.	1.2	10
33	Propagating transitions of electroconvection. <i>Physical Review A</i> , 1985, 31, 2548-2555.	1.0	9
34	Design and functional analysis of actomyosin motor domain chimera proteins. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 825-831.	1.0	9
35	Anion-Dependence of Fast Relaxation Component in Na-, K-Halide Solutions at Low Concentrations Measured by High-Resolution Microwave Dielectric Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4851-4862.	1.1	9
36	Physical driving force of actomyosin motility based on the hydration effect. <i>Cytoskeleton</i> , 2017, 74, 512-527.	1.0	9

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37	Potential of mean force calculation of solute molecules in water by a modified solvent-accessible surface method. <i>Journal of Computational Chemistry</i> , 1997, 18, 1656-1663.	1.5	8
38	Trading polymeric microspheres: Exchanging DNA molecules via microsphere interaction. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 94-99.	2.5	8
39	Electric Charging of Particles Near the Corona Glow Region in Air-CO ₂ Mixtures. <i>IEEE Transactions on Industry Applications</i> , 1979, IA-15, 276-287.	3.3	7
40	Assessment of the VDW interaction converting DMAPS from the thermal-motion form to the hydrogen-bonded form. <i>Scientific Reports</i> , 2019, 9, 13104.	1.6	6
41	New concept of a hydrophobicity motor based on local hydrophobicity transition of functional polymer substrate for micro/nano machines. <i>Polymer Gels and Networks</i> , 1994, 2, 279-287.	0.6	4
42	Modulation of actomyosin motor function by 1-hexanol. <i>Journal of Muscle Research and Cell Motility</i> , 2004, 25, 77-85.	0.9	4
43	Evidence against essential roles for subdomain 1 of actin in actomyosin sliding movements. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 474-481.	1.0	3
44	1,3-Diethylurea-enhanced Mg-ATPase activity of skeletal muscle myosin with a converse effect on the sliding motility. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 2620-2629.	1.1	2
45	Dynamic transformations of self-assembled polymeric microspheres induced by AC voltage and shear flow. <i>RSC Advances</i> , 2015, 5, 14851-14857.	1.7	2
46	Translational motion of a polymer gel microrod via electrically induced wave propagation. <i>Materials Science and Engineering C</i> , 1993, 1, 1-9.	3.8	1
47	Rotational motion of rhodamine 6G tethered to actin through oligo(ethylene glycol) linkers studied by frequency-domain fluorescence anisotropy. <i>Biophysics and Physicobiology</i> , 2015, 12, 87-102.	0.5	1
48	Novel Intermolecular Surface Force Unveils the Driving Force of the Actomyosin System. , 2018, , 257-274.		1
49	Spatial Distribution of Ionic Hydration Energy and Hyper-Mobile Water. , 2018, , 33-52.		1
50	Motor Protein Mechanism Coupled with Hydrophobic Hydration/Dehydration Cycle. , 2000, , 361-369.		1
51	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 ETQq1 1 0.784314 rgBT /Overlock 10 0f50 177 0d (Protein)		
52	3P116 Effect of polymers as water structure maker or breaker on the visible light absorption spectra of phenol red solution(Water, hydration, and electrolytes,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S232.	0.0	0
53	3P118 Effect of NaCl on the hydration property of rigid charge PBDT, poly(biphenyl disulfonic acid) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0f50 177 0d (Protein)	0.0	0
54	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). <i>Seibutsu Butsuri</i> , 2007, 47, S62.	0.0	0

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55	3P119 Spatial variation analysis of dielectric relaxation property of water around solute(Water,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4	0.0	0
56	3P-118 Hydration change in ATP hydrolysis system as measured by dielectric spectroscopy(The 46th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.0	0
57	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
58	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 4	0.0	0
59	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 10 Tf 50 4	0.0	0
60	1P-110 Effect of hyper-mobile water on the swelling of polyelectrolyte hydrogels(Water, Hydration &) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.0	0
61	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 ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4	0.0	0
62	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.0	0
63	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
64	3P133 Water mobility around actin is increased by the polymerization(Muscle,The 48th Annual Meeting) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.0	0
65	1P148 1E1310 Hydration properties of ATP and phosphate : correlation with the thermodynamic parameters(Water & Hydration & Electrolyte,Oral Presentations,Oral Presentations,The 48th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4	0.0	0
66	2SB0925 Dynamic properties of water hydrating ATP(2SB Molecular Basis of ATP Energy,The 48th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.0	0
67	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 ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4	0.0	0
68	é«ā,;āfāfā,ā«āāā,āCE-ā-āšā-ā%æāāfšāfžāfā,ā,āfjā,āāfā,āāf. Journal of the Society of Biomechanisms,2003, 27, 83-86.	0.0	0
69	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
70	3P130 Hydration analysis of DNA/RNA oligomers by dielectric relaxation spectroscopy(Water & ;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.0	0
71	Biophysics Laboratories that Experienced the Higashinohon Earthquake. Seibutsu Butsuri, 2011, 51, 192-195.	0.0	0