

Kenichi Yoshikawa

List of Publications by Year in descending order

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741
papers

20,963
citations

13098

68
h-index

22829

112
g-index

777
all docs

777
docs citations

777
times ranked

14145
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillatory Expression of the bHLH Factor Hes1 Regulated by a Negative Feedback Loop. <i>Science</i> , 2002, 298, 840-843.	12.6	672
2	Large-scale vortex lattice emerging from collectively moving microtubules. <i>Nature</i> , 2012, 483, 448-452.	27.8	590
3	Drug Screening for ALS Using Patient-Specific Induced Pluripotent Stem Cells. <i>Science Translational Medicine</i> , 2012, 4, 145ra104.	12.4	465
4	Discrete Coil-Globule Transition of Large DNA Induced by Cationic Surfactant. <i>Journal of the American Chemical Society</i> , 1995, 117, 2401-2408.	13.7	375
5	Real-time imaging of the somite segmentation clock: Revelation of unstable oscillators in the individual presomitic mesoderm cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1313-1318.	7.1	327
6	Self-Running Droplet: Emergence of Regular Motion from Nonequilibrium Noise. <i>Physical Review Letters</i> , 2005, 94, 068301.	7.8	314
7	Large Discrete Transition in a Single DNA Molecule Appears Continuous in the Ensemble. <i>Physical Review Letters</i> , 1996, 76, 3029-3031.	7.8	297
8	Collapse of single DNA molecule in poly(ethylene glycol) solutions. <i>Journal of Chemical Physics</i> , 1995, 102, 6595-6602.	3.0	293
9	Gene Expression within Cell-Sized Lipid Vesicles. <i>ChemBioChem</i> , 2003, 4, 1172-1175.	2.6	292
10	DNA Dissolves Single-walled Carbon Nanotubes in Water. <i>Chemistry Letters</i> , 2003, 32, 456-457.	1.3	267
11	Transition of Double-Stranded DNA Chains between Random Coil and Compact Globule States Induced by Cooperative Binding of Cationic Surfactant. <i>Journal of the American Chemical Society</i> , 1995, 117, 9951-9956.	13.7	246
12	Photomanipulation of a Droplet by the Chromocapillary Effect. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9281-9284.	13.8	223
13	Self-Rotation of a Camphor Scraping on Water: A New Insight into the Old Problem. <i>Langmuir</i> , 1997, 13, 4454-4458.	3.5	215
14	Morphological variation in a collapsed single homopolymer chain. <i>Journal of Chemical Physics</i> , 1998, 109, 5070-5077.	3.0	204
15	Discrete Coil-Globule Transition of Single Duplex DNAs Induced by Polyamines. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9396-9401.	2.6	192
16	Chromatin Compaction Protects Genomic DNA from Radiation Damage. <i>PLoS ONE</i> , 2013, 8, e75622.	2.5	165
17	Interpolyelectrolyte Complexes Formed by DNA and Astramol Poly(propylene imine) Dendrimers. <i>Macromolecules</i> , 2000, 33, 9587-9593.	4.8	162
18	Mode selection in the spontaneous motion of an alcohol droplet. <i>Physical Review E</i> , 2005, 71, 065301.	2.1	162

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19	How environmental solution conditions determine the compaction velocity of single DNA molecules. <i>Nucleic Acids Research</i> , 2012, 40, 284-289.	14.5	153
20	Direct observation of the coil-globule transition in dna molecules. <i>Biopolymers</i> , 1994, 34, 555-558.	2.4	151
21	Hyaluronic acid and its derivative as a multi-functional gene expression enhancer: Protection from non-specific interactions, adhesion to targeted cells, and transcriptional activation. <i>Journal of Controlled Release</i> , 2006, 112, 382-388.	9.9	142
22	Graphitized Carbon Nanobeads with an Onion Texture as a Lithium-Ion Battery Negative Electrode for High-Rate Use. <i>Advanced Materials</i> , 2005, 17, 2857-2860.	21.0	136
23	DNA-Templated Silver Nanorings. <i>Advanced Materials</i> , 2005, 17, 2820-2823.	21.0	133
24	Nanospheres for DNA separation chips. <i>Nature Biotechnology</i> , 2004, 22, 337-340.	17.5	132
25	Chemoreception by an excitable liquid membrane: characteristic effects of alcohols on the frequency of electrical oscillation. <i>Journal of the American Chemical Society</i> , 1984, 106, 4423-4427.	13.7	127
26	Ultradian oscillations of Stat, Smad, and Hes1 expression in response to serum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11292-11297.	7.1	125
27	Spontaneous oscillation of pH and electrical potential in an oil-water system. <i>Journal of the American Chemical Society</i> , 1983, 105, 5967-5969.	13.7	118
28	Phase Transition and Phase Segregation in a Single Double-Stranded DNA Molecule. <i>Physical Review Letters</i> , 1996, 77, 2133-2136.	7.8	118
29	Giant Liposome as a Biochemical Reactor: Transcription of DNA and Transportation by Laser Tweezers. <i>Langmuir</i> , 2001, 17, 7225-7228.	3.5	118
30	Nonlinear Oscillation and Ameba-like Motion in an Oil/Water System. <i>The Journal of Physical Chemistry</i> , 1996, 100, 19102-19105.	2.9	115
31	Chemical Diode. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13895-13897.	2.9	112
32	On Chemical Reactors That Can Count. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1664-1669.	2.5	111
33	Conformational dependence of the inductive effect in the σ -electron system as studied by carbon-13 nuclear magnetic resonance. <i>Journal of the American Chemical Society</i> , 1973, 95, 165-171.	13.7	109
34	Gas Sensing Based on a Nonlinear Response: Discrimination between Hydrocarbons and Quantification of Individual Components in a Gas Mixture. <i>Analytical Chemistry</i> , 1996, 68, 2067-2072.	6.5	108
35	Structure of collapsed persistent macromolecule: Toroid vs. spherical globule. <i>Biopolymers</i> , 1997, 41, 51-60.	2.4	108
36	Nucleation and Growth in Single DNA Molecules. <i>Journal of the American Chemical Society</i> , 1996, 118, 929-930.	13.7	106

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37	Oriented Reconstitution of a Membrane Protein in a Giant Unilamellar Vesicle: Experimental Verification with the Potassium Channel KcsA. <i>Journal of the American Chemical Society</i> , 2011, 133, 11774-11779.	13.7	104
38	An excitable liquid membrane possibly mimicking the sensing mechanism of taste. <i>Langmuir</i> , 1988, 4, 759-762.	3.5	99
39	Coupling among three chemical oscillators: Synchronization, phase death, and frustration. <i>Physical Review E</i> , 1993, 47, 864-874.	2.1	97
40	Discrete phase transition of giant DNA dynamics of globule formation from a single molecular chain. <i>Physica D: Nonlinear Phenomena</i> , 1995, 84, 220-227.	2.8	97
41	Information operations with an excitable field. <i>Physical Review E</i> , 1999, 59, 5354-5360.	2.1	95
42	Disappearance of the Negative Charge in Giant DNA with a Folding Transition. <i>Biophysical Journal</i> , 2001, 80, 2823-2832.	0.5	95
43	Convective and periodic motion driven by a chemical wave. <i>Journal of Chemical Physics</i> , 2002, 116, 5666-5672.	3.0	94
44	Self-organized nanostructures constructed with a single polymer chain. <i>Chemical Physics Letters</i> , 1996, 261, 527-533.	2.6	92
45	Cooperativity or phase transition? Unfolding transition of DNA cationic surfactant complex. <i>Journal of Chemical Physics</i> , 1997, 107, 6917-6924.	3.0	92
46	Controlling the higher-order structure of giant DNA molecules. <i>Advanced Drug Delivery Reviews</i> , 2001, 52, 235-244.	13.7	92
47	Compaction of Single-Chain DNA by Histone-Inspired Nanoparticles. <i>Physical Review Letters</i> , 2005, 95, 228101.	7.8	91
48	Na ⁺ Shows a Markedly Higher Potential than K ⁺ in DNA Compaction in a Crowded Environment. <i>Biophysical Journal</i> , 2005, 88, 4118-4123.	0.5	91
49	Direct observation of the biphasic conformational change of DNA induced by cationic polymers. <i>FEBS Letters</i> , 1991, 295, 67-69.	2.8	88
50	Dynamic Processes in Endocytic Transformation of a Raft-Exhibiting Giant Liposome. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10853-10857.	2.6	88
51	Highly Effective Compaction of Long Duplex DNA Induced by Polyethylene Glycol with Pendant Amino Groups. <i>Journal of the American Chemical Society</i> , 1997, 119, 6473-6477.	13.7	86
52	Finding the optimal path with the aid of chemical wave. <i>Physica D: Nonlinear Phenomena</i> , 1997, 106, 247-254.	2.8	86
53	Wave Emission from Heterogeneities Opens a Way to Controlling Chaos in the Heart. <i>Physical Review Letters</i> , 2007, 99, 208101.	7.8	86
54	Self-propelled motion of a droplet induced by Marangoni-driven spreading. <i>Physical Review E</i> , 2009, 80, 016303.	2.1	86

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55	Collapse of Polyelectrolyte Macromolecules Revisited. <i>Macromolecules</i> , 1997, 30, 3383-3388.	4.8	85
56	Spontaneous Transfer of Phospholipid-Coated Oil-in-Oil and Water-in-Oil Micro-Droplets through an Oil/Water Interface. <i>Langmuir</i> , 2006, 22, 9824-9828.	3.5	85
57	Single-Chain Compaction of Long Duplex DNA by Cationic Nanoparticles: Modes of Interaction and Comparison with Chromatin. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3019-3031.	2.6	84
58	Higher Order Structure of DNA Controlled by the Redox State of Fe ²⁺ /Fe ³⁺ . <i>Journal of the American Chemical Society</i> , 1997, 119, 10573-10578.	13.7	83
59	Reversible Photoswitching in a Cell-Sized Vesicle. <i>Langmuir</i> , 2005, 21, 7626-7628.	3.5	82
60	Purification, molecular cloning, and expression of lipase from <i>Pseudomonas aeruginosa</i> . <i>Archives of Biochemistry and Biophysics</i> , 1992, 296, 505-513.	3.0	81
61	Rhythmic motion of a droplet under a dc electric field. <i>Physical Review E</i> , 2006, 74, 046301.	2.1	80
62	Cell-Sized confinement in microspheres accelerates the reaction of gene expression. <i>Scientific Reports</i> , 2012, 2, 283.	3.3	79
63	Forward and backward laser-guided motion of an oil droplet. <i>Physical Review E</i> , 2004, 70, 046301.	2.1	78
64	Sequence-independent and reversible photocontrol of transcription/expression systems using a photosensitive nucleic acid binder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12219-12223.	7.1	77
65	Change of the Higher Order Structure in a Giant DNA Induced by 4',6-Diamidino-2-phenylindole as a Minor Groove Binder and Ethidium Bromide as an Intercalator. <i>Nucleosides & Nucleotides</i> , 1994, 13, 1415-1423.	0.5	76
66	Opposite effect between intercalator and minor groove binding drug on the higher order structure of DNA as is visualized by fluorescence microscopy. <i>Biochemical and Biophysical Research Communications</i> , 1992, 188, 1274-1279.	2.1	74
67	Gene Transfer Mediated by Polyarginine Requires a Formation of Big Carrier-Complex of DNA Aggregate. <i>Biochemical and Biophysical Research Communications</i> , 1997, 231, 421-424.	2.1	73
68	How Does Alcohol Dissolve the Complex of DNA with a Cationic Surfactant?. <i>Journal of the American Chemical Society</i> , 1999, 121, 1780-1785.	13.7	73
69	Direct observation of brownian motion of macromolecules by fluorescence microscope. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1992, 30, 779-783.	2.1	67
70	Real-time memory on an excitable field. <i>Physical Review E</i> , 2001, 63, 036220.	2.1	67
71	Histone Core Slips along DNA and Prefers Positioning at the Chain End. <i>Physical Review Letters</i> , 2001, 87, 078105.	7.8	66
72	Giant DNA molecules exhibit on/off switching of transcriptional activity through conformational transition. <i>Biophysical Chemistry</i> , 2003, 106, 23-29.	2.8	66

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73	Eliminating spiral waves pinned to an anatomical obstacle in cardiac myocytes by high-frequency stimuli. <i>Physical Review E</i> , 2008, 78, 066216.	2.1	65
74	Self-synchronization in coupled salt-water oscillators. <i>Physica D: Nonlinear Phenomena</i> , 1998, 115, 313-320.	2.8	64
75	DNA Compaction by Divalent Cations: Structural Specificity Revealed by the Potentiality of Designed Quaternary Diammonium Salts. <i>ChemBioChem</i> , 2004, 5, 360-368.	2.6	64
76	Phase separation in crowded micro-spheroids: DNA-PEG system. <i>Chemical Physics Letters</i> , 2012, 539-540, 157-162.	2.6	63
77	Chemosensitive running droplet. <i>Physical Review E</i> , 2005, 72, 041603.	2.1	62
78	Diaminoalkanes with an odd number of carbon atoms induce compaction of a single double-stranded DNA chain. <i>FEBS Letters</i> , 1995, 361, 277-281.	2.8	61
79	First-order phase transition in a stiff polymer chain. <i>Chemical Physics Letters</i> , 1997, 278, 184-188.	2.6	61
80	Formation of a Giant Toroid from Long Duplex DNA. <i>Langmuir</i> , 1999, 15, 4085-4088.	3.5	61
81	Folding/unfolding kinetics on a semiflexible polymer chain. <i>Journal of Chemical Physics</i> , 2002, 117, 6323-6330.	3.0	61
82	Dielectric Control of Counterion-Induced Single-Chain Folding Transition of DNA. <i>Biophysical Journal</i> , 2005, 88, 3486-3493.	0.5	61
83	Time-dependent complex formation of dendritic poly(L-lysine) with plasmid DNA and correlation with in vitro transfection efficiencies. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1270-1273.	2.8	60
84	Molecular dynamics of DNA and nucleosomes in solution studied by fast-scanning atomic force microscopy. <i>Ultramicroscopy</i> , 2010, 110, 682-688.	1.9	59
85	Periodic Motion of Large DNA Molecules during Steady Field Gel Electrophoresis. <i>Macromolecules</i> , 1994, 27, 6061-6067.	4.8	58
86	Optical Trapping of a Growing Water Droplet in Air. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3988-3990.	2.6	58
87	The effect of backbone structure on polycation comb-type copolymer/DNA interactions and the molecular assembly of DNA. <i>Biomaterials</i> , 2005, 26, 703-711.	11.4	57
88	Entrapping Desired Amounts of Actin Filaments and Molecular Motor Proteins in Giant Liposomes. <i>Langmuir</i> , 2008, 24, 11323-11326.	3.5	56
89	New strategy for the development of a gas sensor based on the dynamic characteristics: principle and preliminary experiment. <i>Sensors and Actuators B: Chemical</i> , 1992, 8, 187-189.	7.8	55
90	Folding path in a semiflexible homopolymer chain: A Brownian dynamics simulation. <i>Journal of Chemical Physics</i> , 2000, 113, 854-862.	3.0	55

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91	Manipulation of Cell-Sized Phospholipid-Coated Microdroplets and Their Use as Biochemical Microreactors. <i>Langmuir</i> , 2007, 23, 348-352.	3.5	55
92	Intra-molecular phase segregation in a single polyelectrolyte chain. <i>Journal of Chemical Physics</i> , 2001, 114, 6942-6949.	3.0	54
93	Induction of neuron-like tubes and liposome networks by cooperative effect of gangliosides and phospholipids. <i>FEBS Letters</i> , 2003, 534, 33-38.	2.8	54
94	Spontaneous oscillation of electrical potential across organic liquid membranes. <i>Biophysical Chemistry</i> , 1983, 17, 183-185.	2.8	53
95	Compaction of DNA Induced by Like-Charge Protein: Opposite Salt-Effect against the Polymer-Salt-Induced Condensation with Neutral Polymer. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1763-1766.	4.6	53
96	Electrophoresis of long DNA molecules in linear polyacrylamide solutions. <i>Biophysical Chemistry</i> , 1998, 71, 113-123.	2.8	52
97	Controlling the Intrachain Segregation on a Single DNA Molecule. <i>Journal of the American Chemical Society</i> , 2003, 125, 4414-4415.	13.7	52
98	Structural transition of actin filament in a cell-sized water droplet with a phospholipid membrane. <i>Journal of Chemical Physics</i> , 2006, 124, 104903.	3.0	52
99	Weak Interaction Induces an ON/OFF Switch, whereas Strong Interaction Causes Gradual Change: A Folding Transition of a Long Duplex DNA Chain by Poly-L-lysine. <i>Biomacromolecules</i> , 2007, 8, 273-278.	5.4	52
100	Photoelectron spectroscopic study of cyclic amines. Relation between ionization potentials, basicities, and s character of the nitrogen lone pair electrons. <i>Journal of the American Chemical Society</i> , 1974, 96, 288-289.	13.7	51
101	Generation of periodic force with oscillating chemical reaction. <i>Chemical Physics Letters</i> , 1993, 211, 211-213.	2.6	51
102	Kinetic Study on Monolayer Formation with 4-Aminobenzenethiol on a Gold Surface. <i>Langmuir</i> , 1995, 11, 1612-1616.	3.5	51
103	Photocontrol of Single-Chain DNA Conformation in Cell-Mimicking Microcompartments. <i>ChemBioChem</i> , 2008, 9, 1201-1206.	2.6	51
104	Electric field induced lateral instability in a simple autocatalytic front. <i>Journal of Chemical Physics</i> , 1999, 111, 10-13.	3.0	50
105	Competition between compaction of single chains and bundling of multiple chains in giant DNA molecules. <i>Journal of Chemical Physics</i> , 2004, 120, 4004-4011.	3.0	50
106	Helical Superstructures of Fullerene Peapods and Empty Single-Walled Carbon Nanotubes Formed in Water. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13076-13082.	2.6	50
107	Various oscillatory regimes and bifurcations in a dynamic chemical system at an interface. <i>Ferroelectrics</i> , 1988, 86, 281-298.	0.6	49
108	Temperature-dependent dynamic response enables the qualification and quantification of gases by a single sensor. <i>Sensors and Actuators B: Chemical</i> , 1997, 40, 33-37.	7.8	49

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109	Optical transport of a single cell-sized liposome. <i>Applied Physics Letters</i> , 2001, 79, 4598-4600.	3.3	49
110	Conformational Transition of Giant DNA in a Confined Space Surrounded by a Phospholipid Membrane. <i>Biophysical Journal</i> , 2009, 97, 1678-1686.	0.5	49
111	Cell-Sized Liposomes and Droplets: Real-World Modeling of Living Cells. <i>Materials</i> , 2012, 5, 2292-2305.	2.9	48
112	Nucleotide Sequence of the <i>Clostridium stercorarium</i> xylA Gene Encoding a Bifunctional Protein with β -D-Xylosidase and β -L-Arabinofuranosidase Activities, and Properties of the Translated Product. <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 268-272.	1.3	47
113	Marked discreteness on the coil-globule transition of single duplex DNA. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996, 100, 876-880.	0.9	47
114	Spontaneous mode-selection in the self-propelled motion of a solid/liquid composite driven by interfacial instability. <i>Journal of Chemical Physics</i> , 2011, 134, 114704.	3.0	47
115	Size-Dependent Belousov-Zhabotinsky Oscillation in Small Beads. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7649-7652.	2.5	46
116	DNA Compaction in a Crowded Environment with Negatively Charged Proteins. <i>Physical Review Letters</i> , 2010, 105, 128302.	7.8	46
117	Rotary motion driven by a direct current electric field. <i>Applied Physics Letters</i> , 2010, 96, 104105.	3.3	46
118	Emergent Self-Organized Criticality in Gene Expression Dynamics: Temporal Development of Global Phase Transition Revealed in a Cancer Cell Line. <i>PLoS ONE</i> , 2015, 10, e0128565.	2.5	46
119	Psychological stress exacerbates NSAID-induced small bowel injury by inducing changes in intestinal microbiota and permeability via glucocorticoid receptor signaling. <i>Journal of Gastroenterology</i> , 2017, 52, 61-71.	5.1	46
120	Use of a saline oscillator as a simple nonlinear dynamical system: Rhythms, bifurcation, and entrainment. <i>American Journal of Physics</i> , 1991, 59, 137-141.	0.7	45
121	Desorption of 4-Aminobenzenethiol Bound to a Gold Surface. <i>Langmuir</i> , 1998, 14, 2343-2347.	3.5	45
122	Size-Dependent Switching of the Spatiotemporal Structure between a Traveling Wave and Global Rhythm. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8445-8448.	2.5	45
123	Direct laser trapping of single DNA molecules in the globular state. <i>Nucleic Acids Research</i> , 1998, 26, 4943-4945.	14.5	44
124	Information operations with multiple pulses on an excitable field. <i>Chaos, Solitons and Fractals</i> , 2003, 17, 455-461.	5.1	44
125	Oscillation of electrical potential in a porous membrane doped with glycerol β -monooleate induced by an Na^+/K^+ concentration gradient. <i>Biophysical Chemistry</i> , 1984, 20, 107-109.	2.8	43
126	Self-excitation in a porous membrane doped with sorbitan monooleate (Span-80) induced by an Na^+/K^+ concentration gradient. <i>Biophysical Chemistry</i> , 1985, 21, 33-39.	2.8	43

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127	Chemoreception of sugars by an excitable liquid membrane. <i>Biophysical Chemistry</i> , 1986, 23, 211-214.	2.8	43
128	Thermodynamics of the Collapsing Phase Transition in a Single Duplex DNA Molecule. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10517-10523.	2.6	43
129	A three-state model for counterions in a dilute solution of weakly charged polyelectrolytes. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 249-256.	1.4	43
130	Cell-free protein synthesis at high temperatures using the lysate of a hyperthermophile. <i>Journal of Biotechnology</i> , 2006, 126, 186-195.	3.8	43
131	Chemomechanical Transduction in an Oil/Water System. Regulation of the Macroscopic Mechanical Motion. <i>Bulletin of the Chemical Society of Japan</i> , 1993, 66, 3352-3357.	3.2	42
132	Phase-shift as a basis of image processing in oscillating chemical medium. <i>Physica D: Nonlinear Phenomena</i> , 1995, 84, 238-245.	2.8	42
133	Folding of long DNA chains in the presence of distearyldimethylammonium bromide and unfolding induced by neutral liposomes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 283-288.	1.7	42
134	Numerical study on time delay for chemical wave transmission via an inactive gap. <i>Chemical Physics Letters</i> , 1997, 271, 355-360.	2.6	42
135	Direct observation of DNA molecules in a convection flow of a drying droplet. <i>Europhysics Letters</i> , 2001, 55, 294-300.	2.0	42
136	Domain-Growth Kinetics in a Cell-Sized Liposome. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 013602.	1.6	42
137	Protective Effect of Vitamin C against Double-Strand Breaks in Reconstituted Chromatin Visualized by Single-Molecule Observation. <i>Biophysical Journal</i> , 2006, 90, 993-999.	0.5	41
138	DNA compaction plays a key role in radioprotection against double-strand breaks as revealed by single-molecule observation. <i>Chemical Physics Letters</i> , 2008, 456, 80-83.	2.6	41
139	Phase separation of a mixture of charged and neutral lipids on a giant vesicle induced by small cations. <i>Chemical Physics Letters</i> , 2010, 496, 59-63.	2.6	41
140	On the oscillatory phenomenon in an oil/water interface. <i>Biophysical Chemistry</i> , 1985, 22, 151-158.	2.8	40
141	Mathematical modeling of frogs' calling behavior and its possible application to artificial life and robotics. <i>Artificial Life and Robotics</i> , 2008, 12, 29-32.	1.2	40
142	Conformational analysis of furan and thiophen carbonyl derivatives. <i>Tetrahedron</i> , 1973, 29, 2545-2552.	1.9	39
143	Lipase from <i>Pseudomonas aeruginosa</i> . Production in <i>Escherichia coli</i> and activation in vitro with a protein from the downstream gene. <i>FEBS Journal</i> , 1993, 215, 239-246.	0.2	39
144	Conformational Change of Giant DNA with Added Salt As Revealed by Single Molecular Observation. <i>Macromolecules</i> , 2006, 39, 6200-6206.	4.8	39

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145	Chemo-mechanical energy transduction through interfacial instability. <i>Physica D: Nonlinear Phenomena</i> , 2005, 205, 283-291.	2.8	38
146	Hydrodynamic radius of circular DNA is larger than that of linear DNA. <i>Chemical Physics Letters</i> , 2006, 418, 255-259.	2.6	38
147	Self-Organizing Global Gene Expression Regulated through Criticality: Mechanism of the Cell-Fate Change. <i>PLoS ONE</i> , 2016, 11, e0167912.	2.5	38
148	Characterization of Human Salivary Kallikrein: Reactivities to Human Plasma Kininogens and Proteinase Inhibitors. <i>Journal of Biochemistry</i> , 1983, 93, 833-838.	1.7	37
149	Topoisomerase II, scaffold component, promotes chromatin compaction in vitro in a linker-histone H1-dependent manner. <i>Nucleic Acids Research</i> , 2007, 35, 2787-2799.	14.5	37
150	Spontaneous Deformation of an Oil Droplet Induced by the Cooperative Transport of Cationic and Anionic Surfactants through the Interface. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15709-15714.	2.6	37
151	The evolution of spatial ordering of oil drops fast spreading on a water surface. <i>Nature Communications</i> , 2015, 6, 7189.	12.8	37
152	Specific Spatial Localization of Actin and DNA in a Water/Water Microdroplet: Self-Emergence of a Cell-Like Structure. <i>ChemBioChem</i> , 2018, 19, 1370-1374.	2.6	37
153	Self-assembled pearling structure of long duplex DNA with histone H1. <i>FEBS Journal</i> , 2001, 268, 2593-2599.	0.2	36
154	Hydration process of multi-stacked phospholipid bilayers to form giant vesicles. <i>Chemical Physics Letters</i> , 2008, 455, 297-302.	2.6	36
155	Gait training of subacute stroke patients using a hybrid assistive limb: a pilot study. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 197-204.	2.2	36
156	Daunomycin unfolds compactly packed DNA. <i>Biophysical Chemistry</i> , 1996, 61, 93-100.	2.8	35
157	Smooth/rough layering in liquid-crystalline/gel state of dry phospholipid film, in relation to its ability to generate giant vesicles. <i>Chemical Physics Letters</i> , 2005, 411, 267-272.	2.6	35
158	Blebbing dynamics in an oil-water-surfactant system through the generation and destruction of a gel-like structure. <i>Physical Review E</i> , 2007, 76, 055202.	2.1	35
159	Stable phospholipid membrane supported on porous filter paper. <i>Biochemical and Biophysical Research Communications</i> , 1987, 145, 1092-1097.	2.1	34
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