

Kenichi Yoshikawa

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

677
papers

17,959
citations

65
h-index

105
g-index

776
ext. papers

19,476
ext. citations

4.5
avg, IF

6.54
L-index

#	Paper	IF	Citations
677	Oscillatory expression of the bHLH factor Hes1 regulated by a negative feedback loop. <i>Science</i> , 2002 , 298, 840-3	33.3	592
676	Large-scale vortex lattice emerging from collectively moving microtubules. <i>Nature</i> , 2012 , 483, 448-52	50.4	454
675	Drug screening for ALS using patient-specific induced pluripotent stem cells. <i>Science Translational Medicine</i> , 2012 , 4, 145ra104	17.5	390
674	Discrete Coil-Globule Transition of Large DNA Induced by Cationic Surfactant. <i>Journal of the American Chemical Society</i> , 1995 , 117, 2401-2408	16.4	347
673	Self-running droplet: emergence of regular motion from nonequilibrium noise. <i>Physical Review Letters</i> , 2005 , 94, 068301	7.4	287
672	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, 1313-8	11.5	275
671	Large discrete transition in a single DNA molecule appears continuous in the ensemble. <i>Physical Review Letters</i> , 1996 , 76, 3029-3031	7.4	275
670	Collapse of single DNA molecule in poly(ethylene glycol) solutions. <i>Journal of Chemical Physics</i> , 1995 , 102, 6595-6602	3.9	265
669	Gene expression within cell-sized lipid vesicles. <i>ChemBioChem</i> , 2003 , 4, 1172-5	3.8	264
668	DNA Dissolves Single-walled Carbon Nanotubes in Water. <i>Chemistry Letters</i> , 2003 , 32, 456-457	1.7	248
667	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	16.4	226
666	Photomanipulation of a droplet by the chromocapillary effect. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9281-4	16.4	194
665	Morphological variation in a collapsed single homopolymer chain. <i>Journal of Chemical Physics</i> , 1998 , 109, 5070-5077	3.9	190
664	Self-Rotation of a Camphor Scraping on Water: New Insight into the Old Problem. <i>Langmuir</i> , 1997 , 13, 4454-4458	4	181
663	Discrete Coil-Globule Transition of Single Duplex DNAs Induced by Polyamines. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9396-9401	3.4	180
662	Interpolyelectrolyte Complexes Formed by DNA and Astramol Poly(propylene imine) Dendrimers. <i>Macromolecules</i> , 2000 , 33, 9587-9593	5.5	153
661	Direct observation of the coil-globule transition in dna molecules. <i>Biopolymers</i> , 1994 , 34, 555-558	2.2	140

660	Mode selection in the spontaneous motion of an alcohol droplet. <i>Physical Review E</i> , 2005 , 71, 065301	2.4	138
659	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, 382-8	11.7	128
658	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	24	127
657	Chromatin compaction protects genomic DNA from radiation damage. <i>PLoS ONE</i> , 2013 , 8, e75622	3.7	125
656	DNA-Templated Silver Nanorings. <i>Advanced Materials</i> , 2005 , 17, 2820-2823	24	123
655	Nanospheres for DNA separation chips. <i>Nature Biotechnology</i> , 2004 , 22, 337-40	44.5	115
654	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, 11292-7	11.5	111
653	Nonlinear Oscillation and Ameba-like Motion in an Oil/Water System. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 19102-19105		109
652	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	16.4	109
651	Giant Liposome as a Biochemical Reactor: Transcription of DNA and Transportation by Laser Tweezers. <i>Langmuir</i> , 2001 , 17, 7225-7228	4	108
650	Spontaneous oscillation of pH and electrical potential in an oil-water system. <i>Journal of the American Chemical Society</i> , 1983 , 105, 5967-5969	16.4	107
649	Chemical Diode. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 13895-13897		102
648	How environmental solution conditions determine the compaction velocity of single DNA molecules. <i>Nucleic Acids Research</i> , 2012 , 40, 284-9	20.1	101
647	Phase Transition and Phase Segregation in a Single Double-Stranded DNA Molecule. <i>Physical Review Letters</i> , 1996 , 77, 2133-2136	7.4	100
646	On Chemical Reactors That Can Count. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1664-1669	2.8	97
645	Structure of collapsed persistent macromolecule: Toroid vs. spherical globule. <i>Biopolymers</i> , 1997 , 41, 51-60	2.2	96
644	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, 2067-72	7.8	94
643	Nucleation and Growth in Single DNA Molecules. <i>Journal of the American Chemical Society</i> , 1996 , 118, 929-930	16.4	92

- 642 Oriented reconstitution of a membrane protein in a giant unilamellar vesicle: experimental verification with the potassium channel KcsA. *Journal of the American Chemical Society*, **2011**, 133, 11774-11779 16.4 91
- 641 Coupling among three chemical oscillators: Synchronization, phase death, and frustration. *Physical Review E*, **1993**, 47, 864-874 2.4 89
- 640 Conformational dependence of the inductive effect in the σ -electron system as studied by carbon-13 nuclear magnetic resonance. *Journal of the American Chemical Society*, **1973**, 95, 165-171 16.4 89
- 639 Disappearance of the negative charge in giant DNA with a folding transition. *Biophysical Journal*, **2001**, 80, 2823-32 2.9 87
- 638 An excitable liquid membrane possibly mimicking the sensing mechanism of taste. *Langmuir*, **1988**, 4, 759-762 4 87
- 637 Cooperativity or phase transition? Unfolding transition of DNA cationic surfactant complex. *Journal of Chemical Physics*, **1997**, 107, 6917-6924 3.9 86
- 636 Controlling the higher-order structure of giant DNA molecules. *Advanced Drug Delivery Reviews*, **2001**, 52, 235-44 18.5 86
- 635 Discrete phase transition of giant DNA dynamics of globule formation from a single molecular chain. *Physica D: Nonlinear Phenomena*, **1995**, 84, 220-227 3.3 86
- 634 Self-organized nanostructures constructed with a single polymer chain. *Chemical Physics Letters*, **1996**, 261, 527-533 2.5 85
- 633 Compaction of single-chain DNA by histone-inspired nanoparticles. *Physical Review Letters*, **2005**, 95, 228101 7.4 84
- 632 Information operations with an excitable field. *Physical Review E*, **1999**, 59, 5354-60 2.4 83
- 631 Convective and periodic motion driven by a chemical wave. *Journal of Chemical Physics*, **2002**, 116, 5666-5672 5.7 79
- 630 Highly Effective Compaction of Long Duplex DNA Induced by Polyethylene Glycol with Pendant Amino Groups. *Journal of the American Chemical Society*, **1997**, 119, 6473-6477 16.4 78
- 629 Single-chain compaction of long duplex DNA by cationic nanoparticles: modes of interaction and comparison with chromatin. *Journal of Physical Chemistry B*, **2007**, 111, 3019-31 3.4 77
- 628 Na⁺ shows a markedly higher potential than K⁺ in DNA compaction in a crowded environment. *Biophysical Journal*, **2005**, 88, 4118-23 2.9 77
- 627 Direct observation of the biphasic conformational change of DNA induced by cationic polymers. *FEBS Letters*, **1991**, 295, 67-9 3.8 77
- 626 Collapse of Polyelectrolyte Macromolecules Revisited. *Macromolecules*, **1997**, 30, 3383-3388 5.5 76
- 625 Dynamic processes in endocytic transformation of a raft-exhibiting giant liposome. *Journal of Physical Chemistry B*, **2007**, 111, 10853-7 3.4 76

624	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	16.4	75
623	Spontaneous transfer of phospholipid-coated oil-in-oil and water-in-oil micro-droplets through an oil/water interface. <i>Langmuir</i> , 2006 , 22, 9824-8	4	75
622	Purification, molecular cloning, and expression of lipase from <i>Pseudomonas aeruginosa</i> . <i>Archives of Biochemistry and Biophysics</i> , 1992 , 296, 505-13	4.1	75
621	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		73
620	Self-propelled motion of a droplet induced by Marangoni-driven spreading. <i>Physical Review E</i> , 2009 , 80, 016303	2.4	71
619	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, 1274-9	3.4	69
618	Wave emission from heterogeneities opens a way to controlling chaos in the heart. <i>Physical Review Letters</i> , 2007 , 99, 208101	7.4	68
617	Reversible photoswitching in a cell-sized vesicle. <i>Langmuir</i> , 2005 , 21, 7626-8	4	67
616	How Does Alcohol Dissolve the Complex of DNA with a Cationic Surfactant?. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1780-1785	16.4	67
615	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, 12219-23	11.5	66
614	Gene transfer mediated by polyarginine requires a formation of big carrier-complex of DNA aggregate. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 231, 421-4	3.4	66
613	Rhythmic motion of a droplet under a dc electric field. <i>Physical Review E</i> , 2006 , 74, 046301	2.4	66
612	Cell-Sized confinement in microspheres accelerates the reaction of gene expression. <i>Scientific Reports</i> , 2012 , 2, 283	4.9	65
611	Finding the optimal path with the aid of chemical wave. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 106, 247-254	3.54	65
610	Histone core slips along DNA and prefers positioning at the chain end. <i>Physical Review Letters</i> , 2001 , 87, 078105	7.4	63
609	Folding/unfolding kinetics on a semiflexible polymer chain. <i>Journal of Chemical Physics</i> , 2002 , 117, 6323-6330	5.9	61
608	Self-synchronization in coupled salt-water oscillators. <i>Physica D: Nonlinear Phenomena</i> , 1998 , 115, 313-320	3.9	59
607	Giant DNA molecules exhibit on/off switching of transcriptional activity through conformational transition. <i>Biophysical Chemistry</i> , 2003 , 106, 23-9	3.5	59

606	Direct observation of brownian motion of macromolecules by fluorescence microscope. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1992 , 30, 779-783	2.6	59
605	Eliminating spiral waves pinned to an anatomical obstacle in cardiac myocytes by high-frequency stimuli. <i>Physical Review E</i> , 2008 , 78, 066216	2.4	58
604	First-order phase transition in a stiff polymer chain. <i>Chemical Physics Letters</i> , 1997 , 278, 184-188	2.5	57
603	Forward and backward laser-guided motion of an oil droplet. <i>Physical Review E</i> , 2004 , 70, 046301	2.4	57
602	Chemosensitive running droplet. <i>Physical Review E</i> , 2005 , 72, 041603	2.4	56
601	Real-time memory on an excitable field. <i>Physical Review E</i> , 2001 , 63, 036220	2.4	56
600	Formation of a Giant Toroid from Long Duplex DNA. <i>Langmuir</i> , 1999 , 15, 4085-4088	4	56
599	Dielectric control of counterion-induced single-chain folding transition of DNA. <i>Biophysical Journal</i> , 2005 , 88, 3486-93	2.9	55
598	Folding path in a semiflexible homopolymer chain: A Brownian dynamics simulation. <i>Journal of Chemical Physics</i> , 2000 , 113, 854-862	3.9	55
597	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, 1270-3	3.9	54
596	Molecular dynamics of DNA and nucleosomes in solution studied by fast-scanning atomic force microscopy. <i>Ultramicroscopy</i> , 2010 , 110, 682-8	3.1	53
595	Diaminoalkanes with an odd number of carbon atoms induce compaction of a single double-stranded DNA chain. <i>FEBS Letters</i> , 1995 , 361, 277-81	3.8	53
594	Periodic Motion of Large DNA Molecules during Steady Field Gel Electrophoresis. <i>Macromolecules</i> , 1994 , 27, 6061-6067	5.5	52
593	Phase separation in crowded micro-spheroids: DNA-BEG system. <i>Chemical Physics Letters</i> , 2012 , 539-540, 157-162	2.5	51
592	Helical superstructures of fullerene peapods and empty single-walled carbon nanotubes formed in water. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13076-82	3.4	50
591	The effect of backbone structure on polycation comb-type copolymer/DNA interactions and the molecular assembly of DNA. <i>Biomaterials</i> , 2005 , 26, 703-11	15.6	50
590	Competition between compaction of single chains and bundling of multiple chains in giant DNA molecules. <i>Journal of Chemical Physics</i> , 2004 , 120, 4004-11	3.9	48
589	Controlling the intrachain segregation on a single DNA molecule. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4414-5	16.4	48

588	Intra-molecular phase segregation in a single polyelectrolyte chain. <i>Journal of Chemical Physics</i> , 2001 , 114, 6942-6949	3.9	48
587	Spontaneous oscillation of electrical potential across organic liquid membranes. <i>Biophysical Chemistry</i> , 1983 , 17, 183-5	3.5	48
586	Electrophoresis of long DNA molecules in linear polyacrylamide solutions. <i>Biophysical Chemistry</i> , 1998 , 71, 113-23	3.5	47
585	DNA compaction by divalent cations: structural specificity revealed by the potentiality of designed quaternary diammonium salts. <i>ChemBioChem</i> , 2004 , 5, 360-8	3.8	47
584	Induction of neuron-like tubes and liposome networks by cooperative effect of gangliosides and phospholipids. <i>FEBS Letters</i> , 2003 , 534, 33-8	3.8	47
583	Electric field induced lateral instability in a simple autocatalytic front. <i>Journal of Chemical Physics</i> , 1999 , 111, 10-13	3.9	47
582	Entrapping desired amounts of actin filaments and molecular motor proteins in giant liposomes. <i>Langmuir</i> , 2008 , 24, 11323-6	4	46
581	Kinetic Study on Monolayer Formation with 4-Aminobenzenethiol on a Gold Surface. <i>Langmuir</i> , 1995 , 11, 1612-1616	4	46
580	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	8.5	46
579	Various oscillatory regimes and bifurcations in a dynamic chemical system at an interface. <i>Ferroelectrics</i> , 1988 , 86, 281-298	0.6	46
578	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	6.4	45
577	Weak interaction induces an ON/OFF switch, whereas strong interaction causes gradual change: folding transition of a long duplex DNA chain by poly-L-lysine. <i>Biomacromolecules</i> , 2007 , 8, 273-8	6.9	45
576	Photocontrol of single-chain DNA conformation in cell-mimicking microcompartments. <i>ChemBioChem</i> , 2008 , 9, 1201-6	3.8	45
575	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, 268-72	2.1	45
574	Manipulation of cell-sized phospholipid-coated microdroplets and their use as biochemical microreactors. <i>Langmuir</i> , 2007 , 23, 348-52	4	44
573	Generation of periodic force with oscillating chemical reaction. <i>Chemical Physics Letters</i> , 1993 , 211, 211-213		44
572	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	3.9	43
571	Marked discreteness on the coil-globule transition of single duplex DNA. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1996 , 100, 876-880		43

570	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	43
569	Conformational transition of giant DNA in a confined space surrounded by a phospholipid membrane. <i>Biophysical Journal</i> , 2009 , 97, 1678-86	2.9	42
568	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	8.5	42
567	Structural transition of actin filament in a cell-sized water droplet with a phospholipid membrane. <i>Journal of Chemical Physics</i> , 2006 , 124, 104903	3.9	42
566	Optical Trapping of a Growing Water Droplet in Air. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3988-3996	3.4	42
565	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	2.8	42
564	Photomanipulation of a Droplet by the Chromocapillary Effect. <i>Angewandte Chemie</i> , 2009 , 121, 9445-9448	3.8	41
563	Desorption of 4-Aminobenzenethiol Bound to a Gold Surface. <i>Langmuir</i> , 1998 , 14, 2343-2347	4	41
562	Size-Dependent Belousov-Zhabotinsky Oscillation in Small Beads. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 7649-7652	2.8	41
561	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	16.4	41
560	Direct observation of DNA molecules in a convection flow of a drying droplet. <i>Europhysics Letters</i> , 2001 , 55, 294-300	1.6	40
559	Optical transport of a single cell-sized liposome. <i>Applied Physics Letters</i> , 2001 , 79, 4598-4600	3.4	40
558	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	5.1	39
557	Rotary motion driven by a direct current electric field. <i>Applied Physics Letters</i> , 2010 , 96, 104105	3.4	38
556	DNA compaction in a crowded environment with negatively charged proteins. <i>Physical Review Letters</i> , 2010 , 105, 128302	7.4	38
555	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		38
554	Direct laser trapping of single DNA molecules in the globular state. <i>Nucleic Acids Research</i> , 1998 , 26, 4943-5	20.1	38
553	Domain-Growth Kinetics in a Cell-Sized Liposome. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 013603	3.3	37

552	Phase-shift as a basis of image processing in oscillating chemical medium. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 84, 238-245	3.3	37
551	Chemoreception of sugars by an excitable liquid membrane. <i>Biophysical Chemistry</i> , 1986 , 23, 211-4	3.5	37
550	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	6.9	36
549	Conformational Change of Giant DNA with Added Salt As Revealed by Single Molecular Observation. <i>Macromolecules</i> , 2006 , 39, 6200-6206	5.5	36
548	Hydrodynamic radius of circular DNA is larger than that of linear DNA. <i>Chemical Physics Letters</i> , 2006 , 418, 255-259	2.5	36
547	Conformational analysis of furan and thiophen carbonyl derivatives. <i>Tetrahedron</i> , 1973 , 29, 2545-2552	2.4	36
546	Cell-Sized Liposomes and Droplets: Real-World Modeling of Living Cells. <i>Materials</i> , 2012 , 5, 2292-2305	3.5	35
545	Hydration process of multi-stacked phospholipid bilayers to form giant vesicles. <i>Chemical Physics Letters</i> , 2008 , 455, 297-302	2.5	35
544	Protective effect of vitamin C against double-strand breaks in reconstituted chromatin visualized by single-molecule observation. <i>Biophysical Journal</i> , 2006 , 90, 993-9	2.9	35
543	Information operations with multiple pulses on an excitable field. <i>Chaos, Solitons and Fractals</i> , 2003 , 17, 455-461	9.3	35
542	A three-state model for counterions in a dilute solution of weakly charged polyelectrolytes. <i>Macromolecular Theory and Simulations</i> , 2000 , 9, 249-256	1.5	35
541	Thermodynamics of the Collapsing Phase Transition in a Single Duplex DNA Molecule. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 10517-10523	3.4	35
540	Characterization of human salivary kallikrein: reactivities to human plasma kininogens and proteinase inhibitors. <i>Journal of Biochemistry</i> , 1983 , 93, 833-8	3.1	34
539	ON-OFF switching of transcriptional activity of large DNA through a conformational transition in cooperation with phospholipid membrane. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12464-71 ^{6.4}	6.4	33
538	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	2.5	33
537	Numerical study on time delay for chemical wave transmission via an inactive gap. <i>Chemical Physics Letters</i> , 1997 , 271, 355-360	2.5	33
536	Chemo-mechanical energy transduction through interfacial instability. <i>Physica D: Nonlinear Phenomena</i> , 2005 , 205, 283-291	3.3	33
535	Daunomycin unfolds compactly packed DNA. <i>Biophysical Chemistry</i> , 1996 , 61, 93-100	3.5	33

534	Oscillation of electrical potential in a porous membrane doped with glycerol alpha-monooleate induced by an Na ⁺ /K ⁺ concentration gradient. <i>Biophysical Chemistry</i> , 1984 , 20, 107-9	3.5	33
533	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, 33-9	3.5	33
532	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	3.7	32
531	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	2.5	32
530	Elongation/compaction of giant DNA caused by depletion interaction with a flexible polymer. <i>Journal of Chemical Physics</i> , 2006 , 124, 024902	3.9	32
529	Cell-free protein synthesis at high temperatures using the lysate of a hyperthermophile. <i>Journal of Biotechnology</i> , 2006 , 126, 186-95	3.7	32
528	Proton concentration (pH) switches the higher-order structure of DNA in the presence of spermine. <i>Biophysical Chemistry</i> , 2002 , 99, 43-53	3.5	32
527	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	2.5	32
526	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, 15709-14	3.4	31
525	Mathematical modeling of frogs' falling behavior and its possible application to artificial life and robotics. <i>Artificial Life and Robotics</i> , 2008 , 12, 29-32	0.6	31
524	Rings-on-a-string chain structure in DNA. <i>Journal of Chemical Physics</i> , 2005 , 122, 44902	3.9	31
523	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, 239-46		31
522	Highly efficient DNA compaction mediated by an in vivo antitumor-active tetrazolato-bridged dinuclear platinum(II) complex. <i>Inorganic Chemistry</i> , 2011 , 50, 11729-35	5.1	30
521	Unpinning of a spiral wave anchored around a circular obstacle by an external wave train: common aspects of a chemical reaction and cardiomyocyte tissue. <i>Chaos</i> , 2009 , 19, 043114	3.3	30
520	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	2.4	30
519	Enhancement and inhibition of DNA transcriptional activity by spermine: a marked difference between linear and circular templates. <i>FEBS Letters</i> , 2005 , 579, 5119-22	3.8	30
518	Self-assembled pearling structure of long duplex DNA with histone H1. <i>FEBS Journal</i> , 2001 , 268, 2593-9		30
517	Electrical oscillation and fluctuation in phospholipid membranes. Phospholipids can form a channel without protein. <i>Biophysical Chemistry</i> , 1988 , 29, 293-9	3.5	30

516	Self-Organizing Global Gene Expression Regulated through Criticality: Mechanism of the Cell-Fate Change. <i>PLoS ONE</i> , 2016 , 11, e0167912	3.7	30
515	Transformation of actoHMM assembly confined in cell-sized liposome. <i>Langmuir</i> , 2011 , 27, 11528-35	4	29
514	Multiscaling in a long semiflexible polymer chain in two dimensions. <i>Journal of Chemical Physics</i> , 2002 , 116, 9926-9929	3.9	29
513	Toward the realization of an intelligent gas sensing system utilizing a non-linear dynamic response. <i>Sensors and Actuators B: Chemical</i> , 2000 , 71, 192-196	8.5	29
512	On the oscillatory phenomenon in an oil/water interface. <i>Biophysical Chemistry</i> , 1985 , 22, 151-8	3.5	29
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