

Ping Xie

List of Publications by Year in descending order

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159
papers

2,236
citations

331670

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160
times ranked

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#	ARTICLE	IF	CITATIONS
1	Electric-Field Mediated Chemistry: Uncovering and Exploiting the Potential of (Oriented) Electric Fields to Exert Chemical Catalysis and Reaction Control. <i>Journal of the American Chemical Society</i> , 2020, 142, 12551-12562.	13.7	195
2	Liquid crystal elastomers, networks and gels: advanced smart materials. <i>Journal of Materials Chemistry</i> , 2005, 15, 2529.	6.7	192
3	Oriented-External Electric Fields Create Absolute Enantioselectivity in Diels-Alder Reactions: Importance of the Molecular Dipole Moment. <i>Journal of the American Chemical Society</i> , 2018, 140, 13350-13359.	13.7	113
4	Involvement of G-triplex and G-hairpin in the multi-pathway folding of human telomeric G-quadruplex. <i>Nucleic Acids Research</i> , 2017, 45, 11401-11412.	14.5	67
5	Eliminating spatiotemporal chaos and spiral waves by weak spatial perturbations. <i>Physical Review E</i> , 2000, 61, 5120-5123.	2.1	52
6	Study of the Steric Tacticity of Novel Soluble Ladderlike Poly(phenylsilsesquioxane) Prepared by Stepwise Coupling Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1581-1585.	2.2	45
7	Mechanism of Processive Movement of Monomeric and Dimeric Kinesin Molecules. <i>International Journal of Biological Sciences</i> , 2010, 6, 665-674.	6.4	45
8	Activation of O ₂ and H ₂ O ₂ by Lytic Polysaccharide Monooxygenases. <i>ACS Catalysis</i> , 2020, 10, 12760-12769.	11.2	44
9	Functionalization and application of ladder-like polysilsesquioxanes. <i>Polymers for Advanced Technologies</i> , 1997, 8, 649-656.	3.2	42
10	A model of processive movement of dimeric kinesin. <i>Journal of Theoretical Biology</i> , 2017, 414, 62-75.	1.7	38
11	Synthesis and Characterization of Novel Alcohol-Soluble Ladderlike Poly(silsesquioxane)s Containing Side-Chain Hydroxy Groups. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1576-1580.	2.2	34
12	Synthesis and mesomorphic properties of fishbone-like liquid crystalline polysilsesquioxanes, 3. Fishbone-like, azo-based liquid crystalline polysilsesquioxane. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 745-752.	2.2	27
13	Stabilization, Selection, and Tracking of Unstable Patterns by Weak Spatial Perturbations. <i>Physical Review Letters</i> , 1998, 80, 4669-4672.	7.8	27
14	Novel microencapsulated curing accelerator for prolonging shelf life of epoxy resin composition. <i>Journal of Applied Polymer Science</i> , 2002, 85, 873-878.	2.6	26
15	Lead germanium telluride: a mechanically robust infrared high-index layer. <i>Journal of Materials Science</i> , 2011, 46, 4000-4004.	3.7	25
16	Processivity of dimeric kinesin molecular motors. <i>FEBS Open Bio</i> , 2018, 8, 1332-1351.	2.3	25
17	Investigating role of conformational changes of microtubule in regulating its binding affinity to kinesin by all-atom molecular dynamics simulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 1127-1139.	2.6	25
18	A Stable and High-Efficiency Blue-Light Emitting Terphenyl-Bridged Ladder Polysiloxane. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1259-1263.	3.9	23

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19	Stepping behavior of two-headed kinesin motors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1195-1202.	1.0	22
20	Supramolecular template-directed synthesis of stable and high-efficiency photoluminescence 9,10-diphenylanthryl-bridged ladder polysiloxane. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2491-2497.	2.3	22
21	Model of ribosome translation and mRNA unwinding. <i>European Biophysics Journal</i> , 2013, 42, 347-354.	2.2	22
22	Force dependence of unbinding rate of kinesin motor during its processive movement on microtubule. <i>Biophysical Chemistry</i> , 2019, 253, 106216.	2.8	22
23	Theoretical Analysis of Dynamics of Kinesin Molecular Motors. <i>ACS Omega</i> , 2020, 5, 5721-5730.	3.5	21
24	All-atom molecular dynamics simulations reveal how kinesin transits from one-head-bound to two-heads-bound state. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 545-557.	2.6	20
25	Structural Insight into the Catalytic Mechanism of the Endoperoxide Synthase FtmOx1. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	20
26	A new eluting solvent for gel permeation chromatography of isotactic polypropylene. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1985, 6, 105-110.	1.1	19
27	Synthesis and characterization of a novel reactive ladderlike 4,4'-phenylene ether-bridged polyvinylsiloxane. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2702-2710.	2.3	19
28	A New Insight into the Hydrogen-bonded Liquid Crystals Built from Carboxylic Acids and Pyridyl Moieties. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 373, 119-126.	0.9	19
29	Force Dependence of Velocity and Run Length of Kinesin-1, Kinesin-2 and Kinesin-5 Family Molecular Motors. <i>Molecules</i> , 2019, 24, 287.	3.8	18
30	Conformational Motion of Ferredoxin Enables Efficient Electron Transfer to Heme in the Full-Length P450 _{TT} . <i>Journal of the American Chemical Society</i> , 2021, 143, 1005-1016.	13.7	18
31	Dynamics of tRNA occupancy and dissociation during translation by the ribosome. <i>Journal of Theoretical Biology</i> , 2013, 316, 49-60.	1.7	17
32	ATP-Concentration- and Force-Dependent Chemomechanical Coupling of Kinesin Molecular Motors. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 360-372.	5.4	17
33	Insight into the chemomechanical coupling mechanism of kinesin molecular motors. <i>Communications in Theoretical Physics</i> , 2021, 73, 057601.	2.5	17
34	Theoretical and experimental studies of fanning effects in photorefractive crystals. <i>Journal of Applied Physics</i> , 1993, 74, 813-818.	2.5	16
35	Processivity of single-headed kinesin motors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1418-1427.	1.0	16
36	Dynamics of dimeric kinesins: Limping, effect of longitudinal force, effects of neck linker extension and mutation, and comparison between kinesin-1 and kinesin-2. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1126-1137.	7.5	16

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37	A Generalized Kinetic Model for Coupling between Stepping and ATP Hydrolysis of Kinesin Molecular Motors. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4911.	4.1	16
38	Synthesis and mesomorphic properties of fishbone-like, liquid crystalline polysilsesquioxanes: 4. Pd-coordinating, fishbone-like imine-based liquid crystalline polysilsesquioxane. <i>Macromolecular Symposia</i> , 1996, 105, 249-255.	0.7	15
39	Performance-improved photo-driven liquid crystal cell using azobenzene-grafted ladderlike polysiloxane as command layer. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 1855-1863.	2.2	15
40	Limping of Homodimeric Kinesin Motors. <i>Journal of Molecular Biology</i> , 2007, 366, 976-985.	4.2	15
41	A non-tight chemomechanical coupling model for force-dependence of movement dynamics of molecular motors. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4752-4759.	2.8	15
42	How Oxygen Binding Enhances Long-Range Electron Transfer: Lessons From Reduction of Lytic Polysaccharide Monooxygenases by Cellobiose Dehydrogenase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2385-2392.	13.8	15
43	Studies of Conformational Changes of Tubulin Induced by Interaction with Kinesin Using Atomistic Molecular Dynamics Simulations. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6709.	4.1	15
44	Photo-driven liquid crystal cell using azobenzene-grafted ladderlike polysiloxane as command layer. <i>Macromolecular Rapid Communications</i> , 1996, 17, 759-766.	3.9	14
45	Run length distribution of dimerized kinesin-3 molecular motors: comparison with dimeric kinesin-1. <i>Scientific Reports</i> , 2019, 9, 16973.	3.3	14
46	Synthesis and Anisotropic Behavior of New Ladderlike Polysilsesquioxanes with Side-on and End-on Fixed NLO Chromophores. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 289, 45-57.	0.3	13
47	Self-pumped phase conjugation in photorefractive crystals: Reflectivity and spatial fidelity. <i>Physical Review A</i> , 1997, 55, 3092-3100.	2.5	13
48	Synthesis of a Novel 2,5-Dipropylhydroquinone-Bridged Ladder-Like Polymethylsiloxane Using a Hydroquinone H-Bonding Self-Assembling Template. <i>Macromolecular Rapid Communications</i> , 2002, 23, 366-369.	3.9	13
49	A dynamic model for transcription elongation and sequence-dependent short pauses by RNA polymerase. <i>BioSystems</i> , 2008, 93, 199-210.	2.0	13
50	A possible mechanism for the dynamics of transition between polymerase and exonuclease sites in a high-fidelity DNA polymerase. <i>Journal of Theoretical Biology</i> , 2009, 259, 434-439.	1.7	13
51	Dynamics of monomeric and hexameric helicases. <i>Biophysical Chemistry</i> , 2016, 211, 49-58.	2.8	13
52	Dynamics of kinesin motor proteins under longitudinal and sideways loads. <i>Journal of Theoretical Biology</i> , 2021, 530, 110879.	1.7	13
53	Synthesis and characterization of novel reactive ladder-like polysilsesquioxanes with side-chain ester groups (Ester-Ts). <i>Polymer International</i> , 2000, 49, 509-513.	3.1	12
54	Self-assembling directed synthesis of a novel terephthalamide-bridged ladderlike polysiloxane. <i>Journal of Polymer Science Part A</i> , 2002, 40, 3161-3170.	2.3	12

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55	Synthesis and characterization of ethoxy-terminated ladder-like polymethylsilsesquioxane oligomer. <i>Polymer International</i> , 2004, 53, 113-120.	3.1	12
56	A model for processive movement of single-headed myosin-IX. <i>Biophysical Chemistry</i> , 2010, 151, 71-80.	2.8	12
57	Mechanism of ribosome translation through mRNA secondary structures. <i>International Journal of Biological Sciences</i> , 2017, 13, 712-722.	6.4	12
58	Non-tight and tight chemomechanical couplings of biomolecular motors under hindering loads. <i>Journal of Theoretical Biology</i> , 2020, 490, 110173.	1.7	12
59	A Model for Transition of 5' Nuclelease Domain of DNA Polymerase I from Inert to Active Modes. <i>PLoS ONE</i> , 2011, 6, e16213.	2.5	12
60	A novel orientation material for liquid crystals based on modified ladder-like polysiloxanes. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 3377-3384.	2.2	11
61	Synthesis of Three Organo-Bridged Coupled Key Intermediates in the Stepwise Coupling Polymerization. <i>Synthetic Communications</i> , 2000, 30, 1813-1823.	2.1	11
62	Hydrogen-bonding-aided synthesis of novel ladderlike organobridged polysiloxane containing side-chain naphthyl groups. <i>Journal of Polymer Science Part A</i> , 2003, 41, 636-644.	2.3	11
63	Model for kinetics of myosin-V molecular motors. <i>Biophysical Chemistry</i> , 2006, 120, 225-236.	2.8	11
64	An explanation of biphasic characters of mRNA translocation in the ribosome. <i>BioSystems</i> , 2014, 118, 1-7.	2.0	11
65	Model of ribosomal translocation coupled with intra- and inter-subunit rotations. <i>Biochemistry and Biophysics Reports</i> , 2015, 2, 87-93.	1.3	11
66	Dwell-Time Distribution, Long Pausing and Arrest of Single-Ribosome Translation through the mRNA Duplex. <i>International Journal of Molecular Sciences</i> , 2015, 16, 23723-23744.	4.1	11
67	A two-dimensional theory and propagation of beam fanning in photorefractive crystals. <i>Journal of Applied Physics</i> , 1994, 75, 1891-1895.	2.5	10
68	Mechanochemical couplings of kinesin motors. <i>Biophysical Chemistry</i> , 2006, 123, 58-76.	2.8	10
69	Origin of multiple intersubunit rotations before EF-G-catalyzed ribosomal translocation through the mRNA with a downstream secondary structure. <i>BMC Biophysics</i> , 2014, 7, .	4.4	10
70	Are Coiled-Coils of Dimeric Kinesins Unwound during Their Walking on Microtubule?. <i>PLoS ONE</i> , 2012, 7, e36071.	2.5	10
71	A Combined Method Based on Rubbing and UV-Irradiation for Preparing Stable Alignment-Layers with High Pretilt Angles. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 333, 135-144.	0.3	9
72	Synthesis and characterization of a novel terephthalate-bridged ladderlike polymethylsiloxane. <i>Polymer International</i> , 2000, 49, 1658-1664.	3.1	9

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73	Hydrogen-Bonding-Directed Template Synthesis of Novel Stereo-Regular Organo-Bridged Ladder-Like Polymethylsiloxane. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 155-163.	2.2	9
74	Model for kinetics of wild-type and mutant kinesins. <i>BioSystems</i> , 2006, 84, 24-38.	2.0	9
75	In situ molecular composites of ladder polyphenylsilsesquioxane and polyisophthalamide and their electro-spinning fibers. <i>Polymer Chemistry</i> , 2010, 1, 1095.	3.9	9
76	A unified model of nucleic acid unwinding by the ribosome and the hexameric and monomeric DNA helicases. <i>Journal of Theoretical Biology</i> , 2015, 380, 359-366.	1.7	9
77	A common chemomechanical coupling model for orphan and conventional kinesin molecular motors. <i>Biophysical Chemistry</i> , 2020, 264, 106427.	2.8	9
78	Dynamics of Forward and Backward Translocation of mRNA in the Ribosome. <i>PLoS ONE</i> , 2013, 8, e70789.	2.5	9
79	Mechanism of self-pumped phase conjugation in photorefractive crystals. <i>Applied Physics Letters</i> , 1996, 69, 4005-4007.	3.3	8
80	Synthesis and mesomorphic properties of novel fishbone-like liquid crystalline polysilsesquioxanes VI. Fishbone-like, ester-based liquid crystalline polysilsesquioxanes. <i>Liquid Crystals</i> , 2000, 27, 907-916.	2.2	8
81	Improvement of LPS-based command surfaces: effect of inserting a flexible disiloxane segment into the azo side chain on photo-driven response. <i>Liquid Crystals</i> , 2000, 27, 1683-1689.	2.2	8
82	A novel tube-structure entrapped curing accelerator for prolonging the shelf-life of epoxy resin-based microelectronic packaging material. <i>Journal of Materials Chemistry</i> , 2002, 12, 2325-2330.	6.7	8
83	A hand-over-hand diffusing model for myosin-VI molecular motors. <i>Biophysical Chemistry</i> , 2006, 122, 90-100.	2.8	8
84	Molecular motors that digest their track to rectify Brownian motion: processive movement of exonuclease enzymes. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 375108.	1.8	8
85	A dynamic model for processive transcription elongation and backtracking long pauses by multisubunit RNA polymerases. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2020-2034.	2.6	8
86	A model for chromosome organization during the cell cycle in live E. coli. <i>Scientific Reports</i> , 2015, 5, 17133.	3.3	8
87	Studies on the Synthesis and Conductivity of a Novel Reactive Ladder-Like Poly(-cyanoethylsilsesquioxane) and Poly[(-cyanoethylsilsesquioxane)-co-(methylsilsesquioxane)]. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 2351-2356.	2.2	7
88	Model for Unidirectional Movement of Axonemal and Cytoplasmic Dynein Molecules. <i>Acta Biochimica Et Biophysica Sinica</i> , 2006, 38, 711-724.	2.0	7
89	On translocation mechanism of ring-shaped helicase along single-stranded DNA. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 737-748.	2.3	7
90	Model for RuvAB-mediated branch migration of Holliday junctions. <i>Journal of Theoretical Biology</i> , 2007, 249, 566-573.	1.7	7

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91	Translocation dynamics of tRNA-mRNA in the ribosome. <i>Biophysical Chemistry</i> , 2013, 180-181, 22-28.	2.8	7
92	Biphasic character of ribosomal translocation and non-Michaelis-Menten kinetics of translation. <i>Physical Review E</i> , 2014, 90, 062703.	2.1	7
93	Dynamics of tRNA translocation, mRNA translocation and tRNA dissociation during ribosome translation through mRNA secondary structures. <i>European Biophysics Journal</i> , 2014, 43, 229-240.	2.2	7
94	A model of processive walking and slipping of kinesin-8 molecular motors. <i>Scientific Reports</i> , 2021, 11, 8081.	3.3	7
95	Structural Insight into the Catalytic Mechanism of the Endoperoxide Synthase FtmOx1. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
96	Synthesis and mesomorphic properties of a novel ladder-like 1,4-phenylene-bridged liquid crystalline polysiloxane containing ester-based mesogenic side groups. <i>Liquid Crystals</i> , 2001, 28, 35-43.	2.2	6
97	Study the effects of metallic ions on the combination of DNA and histones with molecular combing technique. <i>Science Bulletin</i> , 2005, 50, 731-737.	1.7	6
98	A model for dynamics of primer extension by eukaryotic DNA primase. <i>European Biophysics Journal</i> , 2011, 40, 1157-1165.	2.2	6
99	A nucleotide binding rectification Brownian ratchet model for translocation of Y-family DNA polymerases. <i>Theoretical Biology and Medical Modelling</i> , 2011, 8, 22.	2.1	6
100	A dynamical model of programmed ~ 1 ribosomal frameshifting. <i>Journal of Theoretical Biology</i> , 2013, 336, 119-131.	1.7	6
101	Dynamic relationships between ribosomal conformational and RNA positional changes during ribosomal translocation. <i>Heliyon</i> , 2016, 2, e00214.	3.2	6
102	Dynamics of cooperative cargo transport by two elastically coupled kinesin motors. <i>European Physical Journal E</i> , 2019, 42, 41.	1.6	6
103	Molecular Mechanism of Processive Stepping of Kinesin Motors. <i>Symmetry</i> , 2021, 13, 1799.	2.2	6
104	The molecular mechanism of P450-catalyzed amination of the pyrrolidine derivative of lidocaine: insights from multiscale simulations. <i>RSC Advances</i> , 2021, 11, 27674-27680.	3.6	6
105	Temporal behavior and instabilities of the self-pumped phase conjugation in photorefractive crystals. <i>Physical Review A</i> , 1997, 56, 936-943.	2.5	5
106	Synthesis and characterization of a novel soluble reactive ladder-like polysilsesquioxane with side-chain 2-(4-chloromethyl phenyl) ethyl groups. <i>Polymers for Advanced Technologies</i> , 2001, 12, 475-481.	3.2	5
107	Synthesis and characterization of polyorganosiloxane (POS) containing nano-scale tubular structure and its supramolecular clathrate. <i>Polymers for Advanced Technologies</i> , 2001, 12, 626-636.	3.2	5
108	Simultaneous High-Efficiency Second- and Third-Harmonic Generation in a 1-D Semiconductor Photonic Crystal. <i>IEEE Journal of Quantum Electronics</i> , 2007, 43, 804-809.	1.9	5

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109	Dynamics of backtracking long pauses of RNA polymerase. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2009, 1789, 212-219.	1.9	5
110	Processivity of nucleic acid unwinding and translocation by helicases. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1590-1605.	2.6	5
111	On the pathway of ribosomal translocation. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 401-415.	7.5	5
112	Dynamics of DNA unwinding by helicases with frequent backward steps. <i>Mathematical Biosciences</i> , 2017, 294, 33-45.	1.9	5
113	A model of DNA unwinding dynamics by the RecBCD complex and its regulation by Chi recognition. <i>Journal of Theoretical Biology</i> , 2018, 448, 142-156.	1.7	5
114	A revised worm-like chain model for elasticity of polypeptide chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 297-307.	2.1	5
115	Dynamics of ATP-dependent and ATP-independent steppings of myosin-V on actin: catch-bond characteristics. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200029.	3.4	5
116	A common ATP-dependent stepping model for kinesin-5 and kinesin-1: Mechanism of bi-directionality of kinesin-5. <i>Biophysical Chemistry</i> , 2021, 271, 106548.	2.8	5
117	Recent Computational Insights into the Oxygen Activation by Copper-Dependent Metalloenzymes. <i>Topics in Catalysis</i> , 2022, 65, 187-195.	2.8	5
118	Modeling processive motion of kinesin-13 <sc>MCAK</sc> and kinesin-14 <sc>Cik1</sc> molecular motors. <i>Protein Science</i> , 2021, 30, 2092-2105.	7.6	5
119	Electro-Optical Effect of Varied SCLCP/LC Blend Systems. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 269, 75-87.	0.3	4
120	Synthesis and characterization of a metal chelate-bridged quasi-ladder main chain discotic liquid crystal polymer. <i>Liquid Crystals</i> , 2001, 28, 477-481.	2.2	4
121	Dynamics of strand passage catalyzed by topoisomerase II. <i>European Biophysics Journal</i> , 2010, 39, 1251-1259.	2.2	4
122	A model for the dynamics of mammalian family X DNA polymerases. <i>Journal of Theoretical Biology</i> , 2011, 277, 111-122.	1.7	4
123	Modeling translocation dynamics of strand displacement DNA synthesis by DNA polymerase I. <i>Journal of Molecular Modeling</i> , 2012, 18, 1951-1960.	1.8	4
124	Dynamics of +1 ribosomal frameshifting. <i>Mathematical Biosciences</i> , 2014, 249, 44-51.	1.9	4
125	<sc>D</sc>yamics of bridge helix bending in RNA polymerase II. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 614-629.	2.6	4
126	Brownian ratchet mechanism of translocation in T7 RNA polymerase facilitated by a post-translocation energy bias arising from the conformational change of the enzyme. <i>Chinese Physics B</i> , 2017, 26, 030201.	1.4	4

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127	Effect of Kinesin-5 Tail Domain on Motor Dynamics for Antiparallel Microtubule Sliding. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7857.	4.1	4
128	Polyorganosiloxane-europium (III) host-guest inclusion system and its energy transfer luminescence. <i>Science in China Series B: Chemistry</i> , 1999, 42, 351-356.	0.8	3
129	Synthesis and characterization of a novel polyorganosiloxane having a bigger sized tubular structure and its supramolecular clathrate. <i>Polymers for Advanced Technologies</i> , 2002, 13, 188-195.	3.2	3
130	On chemomechanical coupling of the F1-ATPase molecular motor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 955-962.	1.0	3
131	A thermal ratchet model of tRNA-mRNA translocation by the ribosome. <i>BioSystems</i> , 2009, 96, 19-28.	2.0	3
132	A polymerase-site-jumping model for strand transfer during DNA synthesis by reverse transcriptase. <i>Virus Research</i> , 2009, 144, 65-73.	2.2	3
133	Model of EF4-induced ribosomal state transitions and mRNA translocation. <i>Physical Biology</i> , 2014, 11, 046007.	1.8	3
134	Model of the pathway of ± 1 frameshifting: Long pausing. <i>Biochemistry and Biophysics Reports</i> , 2016, 5, 408-424.	1.3	3
135	Dynamics of tRNA dissociation in early and later cycles of translation elongation by the ribosome. <i>BioSystems</i> , 2018, 172, 43-51.	2.0	3
136	A model for the chemomechanical coupling of the mammalian cytoplasmic dynein molecular motor. <i>European Biophysics Journal</i> , 2019, 48, 609-619.	2.2	3
137	A model for the chemomechanical coupling of myosin-V molecular motors. <i>RSC Advances</i> , 2019, 9, 26734-26747.	3.6	3
138	Effect of varying load in moving period of a step on dynamics of molecular motors. <i>European Physical Journal E</i> , 2022, 45, 28.	1.6	3
139	Direct visualization of RecQ helicase-DNA interaction with fluorescence microscopy and atomic force microscopy. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 842-847.	6.1	2
140	Study the effects of divalent metallic ions on the combination of DNA and histones with fluorescence anisotropy assays. <i>Science Bulletin</i> , 2007, 52, 1166-1171.	1.7	2
141	Processive hand-over-hand motion of homodimeric nanomotors induced by interaction between two monomeric components and thermal noise. <i>Physical Review E</i> , 2009, 79, 011920.	2.1	2
142	A possible mechanism of processive nucleotide and repeat additions by the telomerase. <i>BioSystems</i> , 2009, 97, 168-178.	2.0	2
143	A modified model for translocation events of processive nucleotide and repeat additions by the recombinant telomerase. <i>Biophysical Chemistry</i> , 2010, 153, 83-96.	2.8	2
144	Dynamics of DNA polymerase I (Klenow fragment) under external force. <i>Journal of Molecular Modeling</i> , 2013, 19, 1379-1389.	1.8	2

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145	Condensations of single DNA molecules induced by heptaplatin and its chiral isomer. AIP Advances, 2014, 4, .	1.3	2
146	Modeling Ribosomal Translocation Facilitated by Peptidyl Transferase Antibiotics. Cellular and Molecular Bioengineering, 2016, 9, 289-302.	2.1	2
147	Optimal numbers of residues in linkers of DNA polymerase I, T7 primase and DNA polymerase IV. Scientific Reports, 2016, 6, 29125.	3.3	2
148	Modeling DNA Unwinding by AddAB Helicaseâ€“Nuclease and Modulation by Chi Sequences: Comparison with AdnAB and RecBCD. Cellular and Molecular Bioengineering, 2019, 12, 179-191.	2.1	2
149	Compositions, structures, and mid-infrared transparency of Sbâ€“Teâ€“Se thin films synthesized using a combinatorial method. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
150	Effects of rebinding rate and asymmetry in unbinding rate on cargo transport by multiple kinesin motors. Communications in Theoretical Physics, 2021, 73, 015603.	2.5	2
151	Investigation of the structural and dynamic basis of kinesin dissociation from microtubule by atomistic molecular dynamics simulations. Chinese Physics B, 2022, 31, 058702.	1.4	2
152	Phase conjugator with two coherent beams in a BaTiO3:Ce crystal. Science in China Series A: Mathematics, 2000, 43, 743-752.	0.5	1
153	Ribosome utilizes the minimum free energy changes to achieve the highest decoding rate and fidelity. Physical Review E, 2015, 92, 022716.	2.1	1
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