

Klaus Schulten

List of Publications by Year in descending order

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154
papers

81,327
citations

16451

64
h-index

11607

135
g-index

158
all docs

158
docs citations

158
times ranked

67392
citing authors

#	ARTICLE	IF	CITATIONS
1	VMD: Visual molecular dynamics. <i>Journal of Molecular Graphics</i> , 1996, 14, 33-38.	1.1	46,937
2	Scalable molecular dynamics with NAMD. <i>Journal of Computational Chemistry</i> , 2005, 26, 1781-1802.	3.3	15,208
3	Scalable molecular dynamics on CPU and GPU architectures with NAMD. <i>Journal of Chemical Physics</i> , 2020, 153, 044130.	3.0	1,548
4	The crystal structure of the light-harvesting complex II (B800â€“850) from <i>Rhodospirillum rubrum</i> . <i>Structure</i> , 1996, 4, 581-597.	3.3	1,056
5	A Model for Photoreceptor-Based Magnetoreception in Birds. <i>Biophysical Journal</i> , 2000, 78, 707-718.	0.5	955
6	Flexible Fitting of Atomic Structures into Electron Microscopy Maps Using Molecular Dynamics. <i>Structure</i> , 2008, 16, 673-683.	3.3	833
7	Free energy calculation from steered molecular dynamics simulations using Jarzynskiâ€™s equality. <i>Journal of Chemical Physics</i> , 2003, 119, 3559-3566.	3.0	712
8	Mature HIV-1 capsid structure by cryo-electron microscopy and all-atom molecular dynamics. <i>Nature</i> , 2013, 497, 643-646.	27.8	712
9	Imaging Î±-Hemolysin with Molecular Dynamics: Ionic Conductance, Osmotic Permeability, and the Electrostatic Potential Map. <i>Biophysical Journal</i> , 2005, 88, 3745-3761.	0.5	620
10	Accelerating molecular modeling applications with graphics processors. <i>Journal of Computational Chemistry</i> , 2007, 28, 2618-2640.	3.3	619
11	Molecular Dynamics Simulations of the Complete Satellite Tobacco Mosaic Virus. <i>Structure</i> , 2006, 14, 437-449.	3.3	390
12	Photosynthetic apparatus of purple bacteria. <i>Quarterly Reviews of Biophysics</i> , 2002, 35, 1-62.	5.7	353
13	Molecular dynamics simulations of large macromolecular complexes. <i>Current Opinion in Structural Biology</i> , 2015, 31, 64-74.	5.7	347
14	GPU-accelerated molecular modeling coming of age. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 29, 116-125.	2.4	336
15	Challenges in protein-folding simulations. <i>Nature Physics</i> , 2010, 6, 751-758.	16.7	310
16	Molecular dynamics flexible fitting: A practical guide to combine cryo-electron microscopy and X-ray crystallography. <i>Methods</i> , 2009, 49, 174-180.	3.8	305
17	Discovery Through the Computational Microscope. <i>Structure</i> , 2009, 17, 1295-1306.	3.3	302
18	Pigment Organization and Transfer of Electronic Excitation in the Photosynthetic Unit of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3854-3871.	2.6	282

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19	Cryo-EM structure of the ribosomeâ€‘SecYE complex in the membrane environment. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 614-621.	8.2	264
20	Excitons in a photosynthetic light-harvesting system: A combined molecular dynamics, quantum chemistry, and polaron model study. <i>Physical Review E</i> , 2002, 65, 031919.	2.1	261
21	Imaging the Migration Pathways for O ₂ , CO, NO, and Xe Inside Myoglobin. <i>Biophysical Journal</i> , 2006, 91, 1844-1857.	0.5	258
22	Steered molecular dynamics simulations of force-induced protein domain unfolding. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 35, 453-463.	2.6	246
23	High-Performance Scalable Molecular Dynamics Simulations of a Polarizable Force Field Based on Classical Drude Oscillators in NAMD. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 87-92.	4.6	233
24	Protein domain movements: detection of rigid domains and visualization of hinges in comparisons of atomic coordinates. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997, 29, 1-14.	2.6	230
25	Structural mechanism of voltage-dependent gating in an isolated voltage-sensing domain. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 244-252.	8.2	228
26	Ribosome-induced changes in elongation factor Tu conformation control GTP hydrolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1063-1068.	7.1	219
27	Structure of the human 26S proteasome at a resolution of 3.9 Å... <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7816-7821.	7.1	174
28	Atomic-level structural and functional model of a bacterial photosynthetic membrane vesicle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15723-15728.	7.1	166
29	Energy transfer between carotenoids and bacteriochlorophylls in light-harvesting complex II of purple bacteria. <i>Physical Review E</i> , 1999, 59, 3293-3311.	2.1	161
30	Efficient light harvesting through carotenoids. <i>Photosynthesis Research</i> , 2000, 66, 125-144.	2.9	157
31	Open Quantum Dynamics Calculations with the Hierarchy Equations of Motion on Parallel Computers. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2808-2816.	5.3	157
32	QwikMDâ€‘Integrative Molecular Dynamics Toolkit for Novices and Experts. <i>Scientific Reports</i> , 2016, 6, 26536.	3.3	153
33	NAMD goes quantum: an integrative suite for hybrid simulations. <i>Nature Methods</i> , 2018, 15, 351-354.	19.0	149
34	FÅ‘rster Energy Transfer Theory as Reflected in the Structures of Photosynthetic Lightâ€‘Harvesting Systems. <i>ChemPhysChem</i> , 2011, 12, 518-531.	2.1	142
35	Constant-pH Molecular Dynamics Simulations for Large Biomolecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5933-5944.	5.3	139
36	Parallel Generalized Born Implicit Solvent Calculations with NAMD. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3635-3642.	5.3	137

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37	Light harvesting complex II B850 excitation dynamics. <i>Journal of Chemical Physics</i> , 2009, 131, 225101.	3.0	136
38	Physical properties of the HIV-1 capsid from all-atom molecular dynamics simulations. <i>Nature Communications</i> , 2017, 8, 15959.	12.8	136
39	Molecular dynamics-based refinement and validation for sub-5 Å... cryo-electron microscopy maps. <i>ELife</i> , 2016, 5, .	6.0	136
40	Structural dynamics of the lac repressor-DNA complex revealed by a multiscale simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6783-6788.	7.1	135
41	Robustness and Optimality of Light Harvesting in Cyanobacterial Photosystem I. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7948-7960.	2.6	134
42	Kinetics of Excitation Migration and Trapping in the Photosynthetic Unit of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8259-8267.	2.6	128
43	Cyclophilin A stabilizes the HIV-1 capsid through a novel non-canonical binding site. <i>Nature Communications</i> , 2016, 7, 10714.	12.8	126
44	Implementation of accelerated molecular dynamics in NAMD. <i>Computational Science & Discovery</i> , 2011, 4, 015002.	1.5	124
45	Atoms to Phenotypes: Molecular Design Principles of Cellular Energy Metabolism. <i>Cell</i> , 2019, 179, 1098-1111.e23.	28.9	122
46	Electronic Excitations in Aggregates of Bacteriochlorophylls. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7640-7650.	2.6	119
47	Generalized scalable multiple copy algorithms for molecular dynamics simulations in NAMD. <i>Computer Physics Communications</i> , 2014, 185, 908-916.	7.5	115
48	A system for interactive molecular dynamics simulation. , 2001, , .		108
49	Investigating a back door mechanism of actin phosphate release by steered molecular dynamics. , 1999, 35, 262-273.		106
50	CryoEM and computer simulations reveal a novel kinase conformational switch in bacterial chemotaxis signaling. <i>ELife</i> , 2015, 4, .	6.0	106
51	Integration of energy and electron transfer processes in the photosynthetic membrane of <i>Rhodobacter sphaeroides</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1769-1780.	1.0	99
52	Macrolide antibiotics allosterically predispose the ribosome for translation arrest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9804-9809.	7.1	99
53	Introduction to the diffusion Monte Carlo method. <i>American Journal of Physics</i> , 1996, 64, 633-644.	0.7	98
54	Elucidating the Mechanism behind Irreversible Deformation of Viral Capsids. <i>Biophysical Journal</i> , 2009, 97, 2061-2069.	0.5	94

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55	Ultrastable cellulosome-adhesion complex tightens under load. <i>Nature Communications</i> , 2014, 5, 5635.	12.8	92
56	All-atom molecular dynamics of the HBV capsid reveals insights into biological function and cryo-EM resolution limits. <i>ELife</i> , 2018, 7, .	6.0	92
57	Mechanisms of Selectivity in Channels and Enzymes Studied with Interactive Molecular Dynamics. <i>Biophysical Journal</i> , 2003, 85, 36-48.	0.5	88
58	The effect of correlated bath fluctuations on exciton transfer. <i>Journal of Chemical Physics</i> , 2011, 134, 095102.	3.0	88
59	Phylogenetic Analysis of Metabolic Pathways. <i>Journal of Molecular Evolution</i> , 2001, 52, 471-489.	1.8	83
60	Mapping Mechanical Force Propagation through Biomolecular Complexes. <i>Nano Letters</i> , 2015, 15, 7370-7376.	9.1	83
61	Advances in the molecular dynamics flexible fitting method for cryo-EM modeling. <i>Methods</i> , 2016, 100, 50-60.	3.8	82
62	Adaptive Multilevel Splitting Method for Molecular Dynamics Calculation of Benzamidine-Trypsin Dissociation Time. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2983-2989.	5.3	80
63	Dynamic allostery governs cyclophilin Aâ€™HIV capsid interplay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14617-14622.	7.1	76
64	Comparative Dynamics and Sequence Dependence of DNA and RNA Binding to Single Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10048-10058.	3.1	75
65	The ribosome can discriminate the chirality of amino acids within its peptidyl-transferase center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6038-6043.	7.1	73
66	All-Atom Molecular Dynamics of Virus Capsids as Drug Targets. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1836-1844.	4.6	73
67	Reaction paths based on mean first-passage times. <i>Journal of Chemical Physics</i> , 2003, 119, 1313-1319.	3.0	72
68	Conserved methionine dictates substrate preference in Nramp-family divalent metal transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10310-10315.	7.1	72
69	A structural model of the active ribosome-bound membrane protein insertase YidC. <i>ELife</i> , 2014, 3, e03035.	6.0	69
70	Protein-Induced Membrane Curvature Investigated through Molecular Dynamics Flexible Fitting. <i>Biophysical Journal</i> , 2009, 97, 321-329.	0.5	68
71	Computational Methodologies for Real-Space Structural Refinement of Large Macromolecular Complexes. <i>Annual Review of Biophysics</i> , 2016, 45, 253-278.	10.0	67
72	Symmetry-Restrained Flexible Fitting for Symmetric EM Maps. <i>Structure</i> , 2011, 19, 1211-1218.	3.3	66

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73	Multiple-Replica Strategies for Free-Energy Calculations in NAMD: Multiple-Walker Adaptive Biasing Force and Walker Selection Rules. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5276-5285.	5.3	66
74	Molecular dynamics study of phospholipase A2 on a membrane surface. , 1996, 25, 12-27.		65
75	Separation of photo-induced radical pair in cryptochrome to a functionally critical distance. <i>Scientific Reports</i> , 2014, 4, 3845.	3.3	65
76	Mechanism for the Regulated Control of Bacterial Transcription Termination by a Universal Adaptor Protein. <i>Molecular Cell</i> , 2018, 71, 911-922.e4.	9.7	65
77	Overall energy conversion efficiency of a photosynthetic vesicle. <i>ELife</i> , 2016, 5, .	6.0	63
78	General random matrix approach to account for the effect of static disorder on the spectral properties of light harvesting systems. <i>Physical Review E</i> , 2002, 65, 031916.	2.1	62
79	Photosynthetic Vesicle Architecture and Constraints on Efficient Energy Harvesting. <i>Biophysical Journal</i> , 2010, 99, 67-75.	0.5	60
80	Molecular Dynamics Studies of Bacteriorhodopsin's Photocycles. <i>Israel Journal of Chemistry</i> , 1995, 35, 447-464.	2.3	58
81	Calculation of Lipid-Bilayer Permeabilities Using an Average Force. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 554-564.	5.3	57
82	Crystal Structure and Conformational Change Mechanism of a Bacterial Nrapm-Family Divalent Metal Transporter. <i>Structure</i> , 2016, 24, 2102-2114.	3.3	56
83	Lateral Segregation of Photosystem I in Cyanobacterial Thylakoids. <i>Plant Cell</i> , 2017, 29, 1119-1136.	6.6	54
84	Dynamic profiling of double-stranded RNA binding proteins. <i>Nucleic Acids Research</i> , 2015, 43, 7566-7576.	14.5	53
85	Excitation energy trapping by the reaction center of <i>Rhodobacter Sphaeroides</i> . <i>International Journal of Quantum Chemistry</i> , 2000, 77, 139-151.	2.0	52
86	Molecular insights into the membrane-associated phosphatidylinositol 4-kinase III β . <i>Nature Communications</i> , 2014, 5, 3552.	12.8	52
87	Stereochemical errors and their implications for molecular dynamics simulations. <i>BMC Bioinformatics</i> , 2011, 12, 190.	2.6	50
88	xMDFF: molecular dynamics flexible fitting of low-resolution X-ray structures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2344-2355.	2.5	50
89	GPU/CPU Algorithm for Generalized Born/Solvent-Accessible Surface Area Implicit Solvent Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2521-2530.	5.3	49
90	Structural model and excitonic properties of the dimeric RC ϵ -LH1 ϵ -PufX complex from <i>Rhodobacter sphaeroides</i> . <i>Chemical Physics</i> , 2009, 357, 188-197.	1.9	48

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91	Light Harvesting by Lamellar Chromatophores in <i>Rhodospirillum rubrum</i> . <i>Biophysical Journal</i> , 2014, 106, 2503-2510.	0.5	48
92	HIV-1 Capsid Function Is Regulated by Dynamics: Quantitative Atomic-Resolution Insights by Integrating Magic-Angle-Spinning NMR, QM/MM, and MD. <i>Journal of the American Chemical Society</i> , 2016, 138, 14066-14075.	13.7	48
93	Intrinsic Stepwise Translocation of Stretched ssDNA in Graphene Nanopores. <i>Nano Letters</i> , 2015, 15, 8322-8330.	9.1	47
94	CryoEM structure of MxB reveals a novel oligomerization interface critical for HIV restriction. <i>Science Advances</i> , 2017, 3, e1701264.	10.3	47
95	Excited state dynamics in photosynthetic reaction center and light harvesting complex 1. <i>Journal of Chemical Physics</i> , 2012, 137, 065101.	3.0	46
96	Multilevel Summation Method for Electrostatic Force Evaluation. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 766-779.	5.3	46
97	Expansion method for stationary states of quantum billiards. <i>American Journal of Physics</i> , 1999, 67, 133-141.	0.7	44
98	Applications of the molecular dynamics flexible fitting method. <i>Journal of Structural Biology</i> , 2011, 173, 420-427.	2.8	44
99	Chemomechanical Coupling in Hexameric Proteinâ€“Protein Interfaces Harnesses Energy within V-Type ATPases. <i>Journal of the American Chemical Society</i> , 2017, 139, 293-310.	13.7	44
100	Predicting the structure of the light-harvesting complex II of <i>rhodospirillum rubrum</i> . <i>Protein Science</i> , 1995, 4, 1670-1682.	7.6	43
101	Excitons and excitation transfer in the photosynthetic unit of purple bacteria. <i>Journal of Luminescence</i> , 1998, 76-77, 310-321.	3.1	43
102	Modeling transport through synthetic nanopores. <i>IEEE Nanotechnology Magazine</i> , 2009, 3, 20-28.	1.3	43
103	Diffusive Models of Membrane Permeation with Explicit Orientational Freedom. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2710-2718.	5.3	43
104	Assembly of Nsp1 Nucleoporins Provides Insight into Nuclear Pore Complex Gating. <i>PLoS Computational Biology</i> , 2014, 10, e1003488.	3.2	42
105	Synaptotagminâ€™s Role in Neurotransmitter Release Likely Involves Ca ²⁺ -induced Conformational Transition. <i>Biophysical Journal</i> , 2014, 107, 1156-1166.	0.5	42
106	GPU-accelerated analysis and visualization of large structures solved by molecular dynamics flexible fitting. <i>Faraday Discussions</i> , 2014, 169, 265-283.	3.2	37
107	Atomic detail visualization of photosynthetic membranes with GPU-accelerated ray tracing. <i>Parallel Computing</i> , 2016, 55, 17-27.	2.1	37
108	Atomic Modeling of an Immature Retroviral Lattice Using Molecular Dynamics and Mutagenesis. <i>Structure</i> , 2015, 23, 1414-1425.	3.3	35

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109	Modeling Induction Phenomena in Intermolecular Interactions with an Ab Initio Force Field. Journal of Chemical Theory and Computation, 2007, 3, 1914-1926.	5.3	34
110	A Highly Tilted Membrane Configuration for the Prefusion State of Synaptobrevin. Biophysical Journal, 2014, 107, 2112-2121.	0.5	34
111	Permeability of a Fluid Lipid Bilayer to Short-Chain Alcohols from First Principles. Journal of Chemical Theory and Computation, 2017, 13, 2523-2532.	5.3	33
112	Structure prediction of a complex between the chromosomal protein HMG-D and DNA. , 1998, 30, 113-135.		30
113	Mechanism of the Primary Charge Transfer Reaction in the Cytochrome <i>bc₁</i> Complex. Journal of Physical Chemistry B, 2016, 120, 11369-11380.	2.6	30
114	Macromolecular Crystallography for Synthetic Abiological Molecules: Combining xMDFF and PHENIX for Structure Determination of Cyanostar Macrocycles. Journal of the American Chemical Society, 2015, 137, 8810-8818.	13.7	29
115	<i>In Situ</i> Conformational Changes of the Escherichia coli Serine Chemoreceptor in Different Signaling States. MBio, 2019, 10, .	4.1	29
116	Membrane Curvature Induced by Aggregates of LH2s and Monomeric LH1s. Biophysical Journal, 2009, 97, 2978-2984.	0.5	28
117	Disulfide Bridges: Bringing Together Frustrated Structure in a Bioactive Peptide. Biophysical Journal, 2016, 110, 1744-1752.	0.5	27
118	Structural Refinement of Proteins by Restrained Molecular Dynamics Simulations with Non-interacting Molecular Fragments. PLoS Computational Biology, 2015, 11, e1004368.	3.2	26
119	Elucidation of Lipid Binding Sites on Lung Surfactant Protein A Using X-ray Crystallography, Mutagenesis, and Molecular Dynamics Simulations. Biochemistry, 2016, 55, 3692-3701.	2.5	25
120	Computational de novo design of antibodies binding to a peptide with high affinity. Biotechnology and Bioengineering, 2017, 114, 1331-1342.	3.3	25
121	CHARMM-GUI MDFF/xMDFF Utilizer for Molecular Dynamics Flexible Fitting Simulations in Various Environments. Journal of Physical Chemistry B, 2017, 121, 3718-3723.	2.6	24
122	Self-Assembly of Photosynthetic Membranes. ChemPhysChem, 2010, 11, 1154-1159.	2.1	23
123	Energy transfer dynamics in an RC-LH1-PufX tubular photosynthetic membrane. New Journal of Physics, 2010, 12, 085005.	2.9	23
124	Evaluation of Emerging Energy-Efficient Heterogeneous Computing Platforms for Biomolecular and Cellular Simulation Workloads. , 2016, 2016, 89-100.		23
125	Early Experiences Porting the NAMD and VMD Molecular Simulation and Analysis Software to GPU-Accelerated OpenPOWER Platforms. Lecture Notes in Computer Science, 2016, 9945, 188-206.	1.3	23
126	Immersive Molecular Visualization with Omnidirectional Stereoscopic Ray Tracing and Remote Rendering. , 2016, 2016, 1048-1057.		22

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127	Electrically Tunable Quenching of DNA Fluctuations in Biased Solid-State Nanopores. ACS Nano, 2016, 10, 4482-4488.	14.6	22
128	The Water Permeability and Pore Entrance Structure of Aquaporin-4 Depend on Lipid Bilayer Thickness. Biophysical Journal, 2016, 111, 90-99.	0.5	20
129	Early experiences scaling VMD molecular visualization and analysis jobs on blue waters. , 2013, , .		17
130	Theory of heterogeneous relaxation in compartmentalized tissues. Magnetic Resonance in Medicine, 1997, 37, 666-675.	3.0	15
131	From Atomic-Level Structure to Supramolecular Organization in the Photosynthetic Unit of Purple Bacteria. Advances in Photosynthesis and Respiration, 2009, , 275-294.	1.0	15
132	Binding Site Recognition and Docking Dynamics of a Single Electron Transport Protein: Cytochrome <i>c</i> . Journal of the American Chemical Society, 2016, 138, 12077-12089.	13.7	15
133	Free-energy simulations reveal molecular mechanism for functional switch of a DNA helicase. ELife, 2018, 7, .	6.0	15
134	Velocity reassignment echoes in proteins. Journal of Chemical Physics, 1995, 103, 3124-3139.	3.0	12
135	Contributions of Charged Residues in Structurally Dynamic Capsid Surface Loops to Rous Sarcoma Virus Assembly. Journal of Virology, 2016, 90, 5700-5714.	3.4	12
136	Quantitative Characterization of Domain Motions in Molecular Machines. Journal of Physical Chemistry B, 2017, 121, 3747-3756.	2.6	10
137	Fast pressure-jump all-atom simulations and experiments reveal site-specific protein dehydration-folding dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5356-5361.	7.1	10
138	Petascale Tcl with NAMD, VMD, and Swift/T. , 2014, , .		9
139	Steered molecular dynamics simulations of force-induced protein domain unfolding. Proteins: Structure, Function and Bioinformatics, 1999, 35, 453-463.	2.6	8
140	High Performance Molecular Visualization: In-Situ and Parallel Rendering with EGL. , 2016, 2016, 1014-1023.		6
141	Protein domain movements: detection of rigid domains and visualization of hinges in comparisons of atomic coordinates. Proteins: Structure, Function and Bioinformatics, 1997, 29, 1-14.	2.6	5
142	Physik der Photosynthese: Wie Bakterien die Quantenphysik ausnutzen, um effizient Photosynthese zu betreiben. Physik Journal, 2001, 57, 49-53.	0.1	4
143	The Light-Harvesting Apparatus in Purple Photosynthetic Bacteria: Introduction to a Quantum Biological Device. , 2011, , 19-48.		3
144	Structure, function, and quantum dynamics of pigment-protein complexes. , 2014, , 123-143.		3

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145	Viewing the Mechanisms of Translation through the Computational Microscope. , 2011, , 142-157.		3
146	Towards an Understanding of Membrane Channels. , 0, , 153-190.		3
147	NEURONAL OSCILLATIONS AND STOCHASTIC LIMIT CYCLES. International Journal of Neural Systems, 1996, 07, 399-402.	5.2	2
148	Investigating a back door mechanism of actin phosphate release by steered molecular dynamics. Proteins: Structure, Function and Bioinformatics, 1999, 35, 262-273.	2.6	1
149	Steered molecular dynamics simulations of force-induced protein domain unfolding. , 1999, 35, 453.		1
150	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	1.1	0
151	Understanding Structure and Function of Membrane Proteins Using Free Energy Calculations. , 0, , 187-211.		0
152	Flexible Fitting of Atomic Structures into Electron Microscopy Maps Using Molecular Dynamics. journal of hand surgery Asian-Pacific volume, The, 2018, , 433-443.	0.4	0
153	Structural characterization of mRNA-tRNA translocation intermediates. journal of hand surgery Asian-Pacific volume, The, 2018, , 450-455.	0.4	0
154	Quantitative Characterization of Domain Motions in Molecular Machines. journal of hand surgery Asian-Pacific volume, The, 2018, , 532-541.	0.4	0