

David Perahia

List of Publications by Year in descending order

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126
papers

4,439
citations

76326

40
h-index

123424

61
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132
all docs

132
docs citations

132
times ranked

3274
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the configurational entropy for proteins: application to molecular dynamics simulations of an α -helix. <i>Macromolecules</i> , 1984, 17, 1370-1374.	4.8	244
2	Internal and interfacial dielectric properties of cytochrome c from molecular dynamics in aqueous solution.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 1082-1086.	7.1	210
3	Molecular dynamics of an α -helical polypeptide: Temperature dependence and deviation from harmonic behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982, 79, 1346-1350.	7.1	127
4	Hydration scheme of uracil and cytosine. <i>Theoretica Chimica Acta</i> , 1978, 48, 29-36.	0.8	123
5	Microscopic Dielectric Properties of Cytochrome c from Molecular Dynamics Simulations in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1995, 117, 7987-8000.	13.7	116
6	Motions in Hemoglobin Studied by Normal Mode Analysis and Energy Minimization: Evidence for the Existence of Tertiary T-like, Quaternary R-like Intermediate Structures. <i>Journal of Molecular Biology</i> , 1996, 258, 393-410.	4.2	97
7	Microscopic theory of the dielectric properties of proteins. <i>Biophysical Journal</i> , 1991, 59, 670-690.	0.5	94
8	Computation of low-frequency normal modes in macromolecules: Improvements to the method of diagonalization in a mixed basis and application to hemoglobin. <i>Computers & Chemistry</i> , 1995, 19, 241-246.	1.2	94
9	Success of the PCIO method and failure of the CNDO/2 method for predicting conformations in some conjugated systems. <i>Chemical Physics Letters</i> , 1973, 19, 73-75.	2.6	84
10	Targeting STAT1 by myricetin and delphinidin provides efficient protection of the heart from ischemia/reperfusion-induced injury. <i>FEBS Letters</i> , 2009, 583, 531-541.	2.8	80
11	Conformational dynamics and enzyme activity. <i>Biochimie</i> , 1998, 80, 33-42.	2.6	78
12	Molecular orbital calculations on the conformation of polypeptides and proteins IV. The conformation of the prolyl and hydroxyprolyl residues. <i>Journal of Theoretical Biology</i> , 1970, 29, 275-291.	1.7	77
13	Molecular orbital calculations on the conformation of nucleic acids and their constituents. <i>Theoretica Chimica Acta</i> , 1973, 30, 31-44.	0.8	77
14	Diagonalization in a mixed basis: A method to compute low-frequency normal modes for large macromolecules. <i>Biopolymers</i> , 1993, 33, 599-611.	2.4	72
15	Molecular orbital calculations on the conformation of nucleic acids and their constituents. <i>Nucleic Acids and Protein Synthesis</i> , 1972, 269, 1-14.	1.7	70
16	Ghrelin receptor conformational dynamics regulate the transition from a preassembled to an active receptor:Gq complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1601-1606.	7.1	69
17	How to choose relevant multiple receptor conformations for virtual screening: a test case of Cdk2 and normal mode analysis. <i>European Biophysics Journal</i> , 2010, 39, 1365-1372.	2.2	68
18	On searching neighbors in computer simulations of macromolecular systems. <i>Journal of Computational Chemistry</i> , 1984, 5, 272-279.	3.3	67

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19	Mutation D816V Alters the Internal Structure and Dynamics of c-KIT Receptor Cytoplasmic Region: Implications for Dimerization and Activation Mechanisms. <i>PLoS Computational Biology</i> , 2011, 7, e1002068.	3.2	67
20	Intramolecular dielectric screening in proteins. <i>Journal of Molecular Biology</i> , 1991, 218, 859-886.	4.2	66
21	Hydration scheme of the purine and pyrimidine bases and base-pairs of the nucleic acids. <i>Theoretica Chimica Acta</i> , 1979, 50, 317-325.	0.8	63
22	Tertiary and quaternary conformational changes in aspartate transcarbamylase: a normal mode study. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 34, 96-112.	2.6	61
23	An ab initio study of the effect of the 3d orbitals of phosphorus on the properties of the phosphate group. <i>Theoretica Chimica Acta</i> , 1975, 40, 47-60.	0.8	59
24	Molecular orbital calculations on the conformation of nucleic acids and their constituents. IV. Conformations about the exocyclic C(4 $\hat{\epsilon}$)-C(5 $\hat{\epsilon}$) bond. <i>Nucleic Acids and Protein Synthesis</i> , 1972, 287, 211-231.	1.7	58
25	Normal mode analysis as a prerequisite for drug design: Application to matrix metalloproteinases inhibitors. <i>FEBS Letters</i> , 2006, 580, 5130-5136.	2.8	58
26	The molecular electrostatic potential of the B-DNA helix. VI The regions of the base pairs in poly (dG.dC) and poly (dA.dT). <i>Nucleic Acids Research</i> , 1979, 6, 3821-3830.	14.5	57
27	Insight into the apoptosis-inducing action of \pm -bisabolol towards malignant tumor cells: Involvement of lipid rafts and Bid. <i>Archives of Biochemistry and Biophysics</i> , 2008, 476, 113-123.	3.0	57
28	Use of the overlap multipole expansion for approximating molecular electrostatic potentials. <i>International Journal of Quantum Chemistry</i> , 1979, 15, 121-129.	2.0	55
29	Molecular electrostatic potential of the B-DNA helix. I. Region of the guanine-cytosine base pair. <i>International Journal of Quantum Chemistry</i> , 1979, 16, 395-403.	2.0	54
30	Cation-binding to biomolecules. <i>Theoretica Chimica Acta</i> , 1977, 43, 207-214.	0.8	53
31	Exploring Free Energy Landscapes of Large Conformational Changes: Molecular Dynamics with Excited Normal Modes. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2755-2767.	5.3	52
32	Molecular orbital calculations on the conformation of nucleic acids and their constituents. <i>Nucleic Acids and Protein Synthesis</i> , 1974, 340, 299-313.	1.7	51
33	Normal modes of symmetric protein assemblies. Application to the tobacco mosaic virus protein disk. <i>Biophysical Journal</i> , 1992, 61, 410-427.	0.5	51
34	Analysis of the Low Frequency Normal Modes of the T-state of Aspartate Transcarbamylase. <i>Journal of Molecular Biology</i> , 1996, 257, 1070-1087.	4.2	51
35	New Insights into the Allosteric Mechanism of Human Hemoglobin from Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2002, 82, 3224-3245.	0.5	50
36	Odorant Binding and Conformational Dynamics in the Odorant-binding Protein. <i>Journal of Biological Chemistry</i> , 2006, 281, 29929-29937.	3.4	46

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37	Molecular orbital calculations on the conformation of polypeptides and proteins. <i>Theoretica Chimica Acta</i> , 1970, 18, 44-56.	0.8	44
38	Molecular orbital calculations on the conformation of polypeptides and proteins. <i>Journal of Theoretical Biology</i> , 1971, 31, 269-285.	1.7	43
39	Hydration scheme of the complementary base-pairs of DNA. <i>FEBS Letters</i> , 1978, 91, 213-215.	2.8	42
40	Analysis of the Low-frequency Normal Modes of the R State of Aspartate Transcarbamylase and a Comparison with the T State Modes. <i>Journal of Molecular Biology</i> , 1996, 261, 490-506.	4.2	42
41	Collective motions in Glucosamine-6-phosphate Synthase: Influence of Ligand Binding and role in Ammonia Channelling and Opening of the Fructose-6-Phosphate Binding Site. <i>Journal of Molecular Biology</i> , 2009, 385, 653-664.	4.2	42
42	Cation-binding to biomolecules. <i>Theoretica Chimica Acta</i> , 1976, 42, 23-31.	0.8	40
43	Human thrombospondinâ€™s (TSP-1) C-terminal domain opens to interact with the CD-47 receptor: A molecular modeling study. <i>Archives of Biochemistry and Biophysics</i> , 2008, 478, 103-109.	3.0	40
44	Motions of an α -helical polypeptide: Comparison of molecular and harmonic dynamics. <i>Biopolymers</i> , 1990, 29, 645-677.	2.4	39
45	A method to explore transition paths in macromolecules. Applications to hemoglobin and phosphoglycerate kinase. <i>Computer Physics Communications</i> , 1995, 91, 263-273.	7.5	39
46	Theoretical modeling of the heme group with a hybrid QM/MM method. <i>Journal of Computational Chemistry</i> , 2000, 21, 282-294.	3.3	39
47	Vibrational Softening of a Protein on Ligand Binding. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6811-6817.	2.6	39
48	A Concerted Mechanism for Opening the GDP Binding Pocket and Release of the Nucleotide in Hetero-Trimeric G-Proteins. <i>Journal of Molecular Biology</i> , 2011, 411, 298-312.	4.2	37
49	The molecular electrostatic potentials of the complementary base pairs of DNA. <i>Theoretica Chimica Acta</i> , 1978, 48, 263-266.	0.8	35
50	Cofactor-dependent conformational heterogeneity of GAD65 and its role in autoimmunity and neurotransmitter homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2524-E2529.	7.1	34
51	Polar fluctuations in proteins: molecular-dynamic studies of cytochrome c in aqueous solution. <i>Faraday Discussions</i> , 1996, 103, 71.	3.2	33
52	Molecular orbital calculations on the conformation of polypeptides and proteins. II. Conformational energy maps and stereochemical rotational states of aromatic residues. <i>Biopolymers</i> , 1971, 10, 107-128.	2.4	32
53	Activation of the Ghrelin Receptor is Described by a Privileged Collective Motion: A Model for Constitutive and Agonist-induced Activation of a Sub-class A G-Protein Coupled Receptor (GPCR). <i>Journal of Molecular Biology</i> , 2010, 395, 769-784.	4.2	32
54	Free Energy Profiles along Consensus Normal Modes Provide Insight into HIV-1 Protease Flap Opening. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2348-2352.	5.3	32

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55	Towards gaining sight of multiscale events: utilizing network models and normal modes in hybrid methods. <i>Current Opinion in Structural Biology</i> , 2020, 64, 34-41.	5.7	32
56	Unfolding of hen egg lysozyme by molecular dynamics simulations at 300K: Insight into the role of the interdomain interface. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 41, 58-74.	2.6	31
57	Consensus modes, a robust description of protein collective motions from multiple-minima normal mode analysis—application to the HIV-1 protease. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2850.	2.8	31
58	The molecular electrostatic potential of the B-DNA helix. <i>Theoretica Chimica Acta</i> , 1979, 51, 349-357.	0.8	30
59	Low frequency motions in phosphoglycerate kinase. A normal mode analysis. <i>Chemical Physics</i> , 1996, 204, 327-336.	1.9	27
60	The molecular electrostatic potential of the B-DNA helix. <i>Theoretica Chimica Acta</i> , 1979, 50, 351-354.	0.8	26
61	Internal cavities and ligand passageways in human hemoglobin characterized by molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 385-393.	2.4	26
62	Conformational heterogeneity and low-frequency vibrational modes of proteins. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5543.	2.8	26
63	Molecular orbital calculations on the conformation of polypeptides and proteins. V. Conformational energy maps and stereochemical rotational states of aliphatic residues. <i>Biopolymers</i> , 1971, 10, 491-511.	2.4	25
64	Structural Dynamics of DPP-4 and Its Influence on the Projection of Bioactive Ligands. <i>Molecules</i> , 2018, 23, 490.	3.8	25
65	Molecular orbital calculations on the conformation of phosphodiester An extended correlation between the geometry and the conformation of the phosphate group. <i>Nucleic Acids and Protein Synthesis</i> , 1976, 435, 282-289.	1.7	24
66	Study of the fast-reacting cysteines in phosphoglycerate kinase using chemical modification and site-directed mutagenesis. <i>FEBS Journal</i> , 1989, 185, 419-423.	0.2	24
67	Molecular orbital calculations on the conformation of nucleic acids and their constituents XI. The backbone structure of (3'→5') and (2'→5')-linked diribose monophosphates with different sugar linkages. <i>Nucleic Acids and Protein Synthesis</i> , 1974, 353, 16-27.		23
68	Molecular dynamics of the FixJ receiver domain: movement of the $\beta 24\text{-}\beta 4$ loop correlates with the in and out flip of Phe101. <i>Protein Science</i> , 2008, 11, 2622-2630.	7.6	22
69	Sampling of conformational ensemble for virtual screening using molecular dynamics simulations and normal mode analysis. <i>Future Medicinal Chemistry</i> , 2015, 7, 2317-2331.	2.3	22
70	Conformational Equilibrium of CDK/Cyclin Complexes by Molecular Dynamics with Excited Normal Modes. <i>Biophysical Journal</i> , 2015, 109, 1179-1189.	0.5	21
71	Substrate binding modifies the hinge bending characteristics of human β -phosphoglycerate kinase: A molecular dynamics study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 77, 319-329.	2.6	20
72	The conformational energy map for the disulphide bridge in proteins. <i>Biochemical and Biophysical Research Communications</i> , 1971, 43, 65-68.	2.1	19

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73	Flexibility and folding of phosphoglycerate kinase. <i>Biochimie</i> , 1990, 72, 417-429.	2.6	19
74	A New Strategy for Atomic Flexible Fitting in Cryo-EM Maps by Molecular Dynamics with Excited Normal Modes (MDeNM-EMfit). <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2419-2423.	5.4	18
75	Molecular orbital calculations on the conformation of polypeptides and proteins. <i>Theoretica Chimica Acta</i> , 1970, 19, 121-134.	0.8	17
76	Molecular orbital calculations on the conformation of nucleic acids and their constituents. <i>Nucleic Acids and Protein Synthesis</i> , 1974, 349, 189-203.	1.7	17
77	Molecular orbital calculations on the conformation of nucleic acids and their constituents VI. Conformation about the exocyclic C(4 \hat{C})-C(5 \hat{C}) bond in β -nucleosides. <i>Nucleic Acids and Protein Synthesis</i> , 1973, 299, 497-499.	1.7	16
78	Insights into the substrate binding mechanism of SULT1A1 through molecular dynamics with excited normal modes simulations. <i>Scientific Reports</i> , 2021, 11, 13129.	3.3	16
79	A Molecular Orbital probe into the conformation of ATP. <i>Biochemical and Biophysical Research Communications</i> , 1972, 47, 1284-1289.	2.1	15
80	Introduction of internal cysteines as conformational probes in yeast phosphoglycerate kinase. <i>Protein Engineering, Design and Selection</i> , 1990, 3, 199-204.	2.1	15
81	Dielectric properties of proteins from simulations: tools and techniques. <i>Computer Physics Communications</i> , 1995, 91, 291-303.	7.5	15
82	Binding sites and hydrophobic pockets in Human Thioredoxin 1 determined by normal mode analysis. <i>Journal of Structural Biology</i> , 2013, 184, 293-300.	2.8	15
83	The effects of ligands on the conformation of phosphoglycerate kinase: Fluorescence anisotropy decay and theoretical interpretation. <i>Biopolymers</i> , 1990, 30, 1151-1160.	2.4	14
84	Direct interaction of natural and synthetic catechins with signal transducer activator of transcription 1 affects both its phosphorylation and activity. <i>FEBS Journal</i> , 2014, 281, 724-738.	4.7	14
85	The allosteric activation mechanism of a phospholipase A2-like toxin from <i>Bothrops jararacussu</i> venom: a dynamic description. <i>Scientific Reports</i> , 2020, 10, 16252.	3.3	14
86	Sampling of Protein Conformational Space Using Hybrid Simulations: A Critical Assessment of Recent Methods. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 832847.	3.5	14
87	Relation between flexibility and positively selected HIV-1 protease mutants against inhibitors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2680-2691.	2.6	13
88	Use of normal modes for structural modeling of proteins: the case study of rat heme oxygenase 1. <i>European Biophysics Journal</i> , 2008, 37, 1157-1165.	2.2	11
89	Hybrid approaches to molecular simulation. <i>Current Opinion in Structural Biology</i> , 2012, 22, 386-393.	5.7	11
90	Conformational restriction of GPCR proteins Coupled Receptors (GPCRs) upon complexation to GPCR proteins: A putative activation mode of GPCRs?. <i>FEBS Letters</i> , 2013, 587, 2656-2661.	2.8	11

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91	Complexes of a Zn-metalloenzyme binding site with hydroxamate-containing ligands. A case for detailed benchmarkings of polarizable molecular mechanics/dynamics potentials when the experimental binding structure is unknown. <i>Journal of Computational Chemistry</i> , 2016, 37, 2770-2782.	3.3	11
92	Nucleotide-Specific Autoinhibition of Full-Length K-Ras4B Identified by Extensive Conformational Sampling. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 145.	3.5	11
93	Ab initio calculations predict a very low barrier for the rotation of the axial ligand in Fe(P)(Im). <i>Chemical Physics Letters</i> , 2002, 353, 379-382.	2.6	10
94	A DFT study on the relative affinity for oxygen of the $\hat{1}\alpha$ and $\hat{1}\beta$ subunits of hemoglobin. <i>Journal of Computational Chemistry</i> , 2006, 27, 1446-1453.	3.3	10
95	CO migration pathways in cytochrome P450cam studied by molecular dynamics simulations. <i>Protein Science</i> , 2007, 16, 781-794.	7.6	10
96	Effects of pH and aggregation in the human prion conversion into scrapie form: a study using molecular dynamics with excited normal modes. <i>European Biophysics Journal</i> , 2018, 47, 583-590.	2.2	10
97	New Structural insights into Kir channel gating from molecular simulations, HDX-MS and functional studies. <i>Scientific Reports</i> , 2020, 10, 8392.	3.3	10
98	Polarizable molecular mechanics studies of $\langle \text{Cu(I)/Zn(II)} \rangle$ superoxide dismutase: Bimetallic binding site and structured waters. <i>Journal of Computational Chemistry</i> , 2014, 35, 2096-2106.	3.3	9
99	A novel molecular mechanism to explain mutations of the HCV protease associated with resistance against covalently bound inhibitors. <i>Virus Research</i> , 2019, 274, 197778.	2.2	9
100	Molecular orbital calculations on the conformation of polypeptides and proteins. <i>Theoretica Chimica Acta</i> , 1971, 22, 11-22.	0.8	8
101	Molecular orbital calculations on the conformation of polypeptides and proteins. VIII. The conformational energy maps and stereochemical rotational slates of the asparaginyll, glutaminyll aspartyl and glutamyl residues. <i>Biopolymers</i> , 1971, 10, 1649-1660.	2.4	8
102	Integrating Three Views of Arf1 Activation Dynamics. <i>Journal of Molecular Biology</i> , 2004, 337, 969-983.	4.2	8
103	An Atomistic View of Microtubule Stabilization by GTP. <i>Structure</i> , 2013, 21, 833-843.	3.3	8
104	In vitro and in silico studies reveal capsid-mutant Porcine circovirus 2b with novel cytopathogenic and structural characteristics. <i>Virus Research</i> , 2018, 251, 22-33.	2.2	7
105	1.2 Å... Refinement of the Kunitz-Type Domain from the $\hat{1}\alpha$ Chain of Human Type VI Collagen. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 306-312.	2.5	5
106	GANM: A protein-ligand docking approach based on genetic algorithm and normal modes. <i>Applied Mathematics and Computation</i> , 2012, 219, 511-520.	2.2	5
107	Unveiling functional motions based on point mutations in biased signaling systems: A normal mode study on nerve growth factor bound to TrkA. <i>PLoS ONE</i> , 2020, 15, e0231542.	2.5	5
108	Revealing the activation mechanism of autoinhibited RalF by integrated simulation and experimental approaches. <i>Scientific Reports</i> , 2021, 11, 10059.	3.3	5

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109	Concerted conformational dynamics and water movements in the ghrelin G protein-coupled receptor. <i>ELife</i> , 2021, 10, .	6.0	5
110	A free-energy simulation study of a bacterial collagenase inhibitor. <i>International Journal of Peptide and Protein Research</i> , 1994, 43, 384-392.	0.1	3
111	Recovery of the wild type atomic flexibility in the HIV-1 protease double mutants. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 59, 107-116.	2.4	3
112	Binding of phenothiazines into allosteric hydrophobic pocket of human thioredoxin 1. <i>European Biophysics Journal</i> , 2016, 45, 279-286.	2.2	3
113	Long-Term, Open-Label, Safety Study of Edivoxetine Monotherapy in Children and Adolescents with Attention-Deficit/Hyperactivity Disorder. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2017, 27, 700-707.	1.3	3
114	Unexpected Gating Behaviour of an Engineered Potassium Channel Kir. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 691901.	3.5	3
115	Dynamic Motion and Communication in the Streptococcal C1 Phage Lysin, PlyC. <i>PLoS ONE</i> , 2015, 10, e0140219.	2.5	3
116	Molecular orbital studies on the conformation of the terminal aminoacyladenine moieties of tRNA. <i>FEBS Letters</i> , 1972, 23, 332-336.	2.8	2
117	Ligand chirality effects on the dynamics of human 3-phosphoglycerate kinase: Comparison between d- and l-nucleotides. <i>Archives of Biochemistry and Biophysics</i> , 2011, 511, 88-100.	3.0	2
118	Receptor Flexibility in Ligand Docking and Virtual Screening. , 2011, , 99-117.		2
119	Normal Mode Analysis of Large Symmetric Assemblies of Macromolecules. <i>AIP Conference Proceedings</i> , 1991, , .	0.4	1
120	Addressing the Issues of Non-isotropy and Non-additivity in the Development of Quantum Chemistry-Grounded Polarizable Molecular Mechanics. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2015, , 1-49.	0.6	1
121	Substrate Binding Directs the Functional Hinge Bending Motion of Human 3-Phosphoglycerate Kinase. <i>Biophysical Journal</i> , 2009, 96, 84a.	0.5	0
122	Influence of Ligand Chirality on the Catalytic Efficiency of Human 3-Phosphoglycerate Kinase. <i>Biophysical Journal</i> , 2011, 100, 395a.	0.5	0
123	Multimolecular complexes of the phosphodiester anion with Zn(II) or Mg(II) and water molecules—Preliminary validations of a polarizable potential by ab initio quantum chemistry. <i>Journal of Computational Chemistry</i> , 2021, 42, 1430-1446.	3.3	0
124	All-Atom Normal Mode Calculations of Large Molecular Systems Using Iterative Methods. <i>Chapman & Hall/CRC Mathematical and Computational Biology Series</i> , 2005, , 17-39.	0.1	0
125	Integrative Study of the Structural and Dynamical Properties of a KirBac3.1 Mutant: Functional Implication of a Highly Conserved Tryptophan in the Transmembrane Domain. <i>International Journal of Molecular Sciences</i> , 2022, 23, 335.	4.1	0
126	Editorial: Integrative Structural Biology of Proteins and Macromolecular Assemblies: Bridging Experiments and Simulations. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	3.5	0