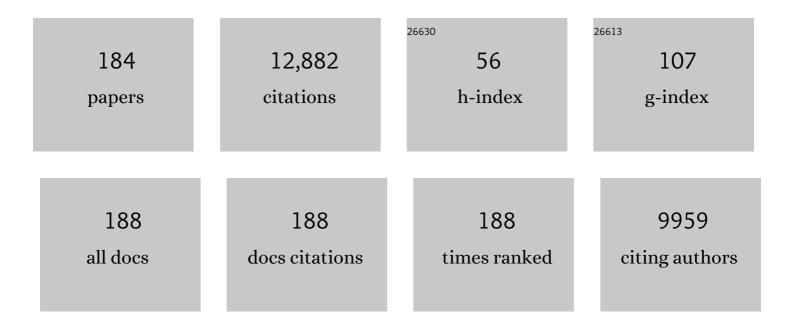
Johan Äqvist

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Computer Simulations Reveal an Entirely Entropic Activation Barrier for the Chemical Step in a Designer Enzyme. ACS Catalysis, 2022, 12, 1452-1460.	11.2	10
2	The Activation Parameters of a Cold-Adapted Short Chain Dehydrogenase Are Insensitive to Enzyme Oligomerization. Biochemistry, 2022, 61, 514-522.	2.5	6
3	Structure and Mechanism of a Cold-Adapted Bacterial Lipase. Biochemistry, 2022, 61, 933-942.	2.5	8
4	Free Energy Calculations for Protein–Ligand Binding Prediction. Methods in Molecular Biology, 2021, 2266, 203-226.	0.9	11
5	Structure and mechanism of a phage-encoded SAM lyase revises catalytic function of enzyme family. ELife, 2021, 10, .	6.0	15
6	Structural Basis of Inhibition of Human Insulin-Regulated Aminopeptidase (IRAP) by Benzopyran-Based Inhibitors. Frontiers in Molecular Biosciences, 2021, 8, 625274.	3.5	3
7	Transition States for Psychrophilic and Mesophilic (<i>R</i>)-3-Hydroxybutyrate Dehydrogenase-Catalyzed Hydride Transfer at Sub-zero Temperatures. Biochemistry, 2021, 60, 2186-2194.	2.5	1
8	3,4-Dihydropyrimidin-2(1 <i>H</i>)-ones as Antagonists of the Human A _{2B} Adenosine Receptor: Optimization, Structure–Activity Relationship Studies, and Enantiospecific Recognition. Journal of Medicinal Chemistry, 2021, 64, 458-480.	6.4	19
9	Deciphering conformational selectivity in the A2A adenosine G protein-coupled receptor by free energy simulations. PLoS Computational Biology, 2021, 17, e1009152.	3.2	5
10	Macrocyclic peptidomimetics as inhibitors of insulin-regulated aminopeptidase (IRAP). RSC Medicinal Chemistry, 2020, 11, 234-244.	3.9	9
11	Hidden Conformational States and Strange Temperature Optima in Enzyme Catalysis. Biochemistry, 2020, 59, 3844-3855.	2.5	16
12	Dissecting the Mechanism of (<i>R</i>)-3-Hydroxybutyrate Dehydrogenase by Kinetic Isotope Effects, Protein Crystallography, and Computational Chemistry. ACS Catalysis, 2020, 10, 15019-15032.	11.2	8
13	Computer simulations explain the anomalous temperature optimum in a cold-adapted enzyme. Nature Communications, 2020, 11, 2644.	12.8	35
14	Xâ€Ray Crystallography and Free Energy Calculations Reveal the Binding Mechanism of A _{2A} Adenosine Receptor Antagonists. Angewandte Chemie - International Edition, 2020, 59, 16536-16543.	13.8	23
15	Synthesis, Evaluation and Proposed Binding Pose of Substituted Spiroâ€Oxindole Dihydroquinazolinones as IRAP Inhibitors. ChemistryOpen, 2020, 9, 325-337.	1.9	7
16	Xâ€Ray Crystallography and Free Energy Calculations Reveal the Binding Mechanism of A _{2A} Adenosine Receptor Antagonists. Angewandte Chemie, 2020, 132, 16679-16686.	2.0	1
17	Evolution of Angiotensin Peptides and Peptidomimetics as Angiotensin II Receptor Type 2 (AT2) Receptor Agonists. Biomolecules, 2020, 10, 649.	4.0	12
18	Inhibition of translation termination by small molecules targeting ribosomal release factors. Scientific Reports, 2019, 9, 15424.	3.3	6

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19	QresFEP: An Automated Protocol for Free Energy Calculations of Protein Mutations in Q. Journal of Chemical Theory and Computation, 2019, 15, 5461-5473.	5.3	33
20	Principles of tRNA ^{Ala} Selection by Alanyl–tRNA Synthetase Based on the Critical G3·U70 Base Pair. ACS Omega, 2019, 4, 15539-15548.	3.5	7
21	A Series of Analogues to the AT ₂ R Prototype Antagonist C38 Allow Fine Tuning of the Previously Reported Antagonist Binding Mode. ChemistryOpen, 2019, 8, 114-125.	1.9	8
22	QligFEP: an automated workflow for small molecule free energy calculations in Q. Journal of Cheminformatics, 2019, 11, 26.	6.1	51
23	Free energy calculations of RNA interactions. Methods, 2019, 162-163, 85-95.	3.8	7
24	Towards Rational Computational Engineering of Psychrophilic Enzymes. Scientific Reports, 2019, 9, 19147.	3.3	20
25	Structural Basis of Inhibition of Human Insulin-Regulated Aminopeptidase (IRAP) by Aryl Sulfonamides. ACS Omega, 2018, 3, 4509-4521.	3.5	14
26	Complementary charge-based interaction between the ribosomal-stalk protein L7/12 and IF2 is the key to rapid subunit association. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4649-4654.	7.1	21
27	Elucidation of the Binding Mode of the Carboxyterminal Region of Peptide YY to the Human Y ₂ Receptor. Molecular Pharmacology, 2018, 93, 323-334.	2.3	28
28	Molecular Mechanisms in the Selectivity of Nonsteroidal Anti-Inflammatory Drugs. Biochemistry, 2018, 57, 1236-1248.	2.5	19
29	Q6: A comprehensive toolkit for empirical valence bond and related free energy calculations. SoftwareX, 2018, 7, 388-395.	2.6	47
30	Catalytic Adaptation of Psychrophilic Elastase. Biochemistry, 2018, 57, 2984-2993.	2.5	18
31	Characterization of Ligand Binding to GPCRs Through Computational Methods. Methods in Molecular Biology, 2018, 1705, 23-44.	0.9	6
32	Mechanistic alternatives for peptide bond formation on the ribosome. Nucleic Acids Research, 2018, 46, 5345-5354.	14.5	12
33	Entropy and Enzyme Catalysis. Accounts of Chemical Research, 2017, 50, 199-207.	15.6	96
34	Computation of enzyme cold adaptation. Nature Reviews Chemistry, 2017, 1, .	30.2	75
35	Probing the Time Dependency of Cyclooxygenase-1 Inhibitors by Computer Simulations. Biochemistry, 2017, 56, 1911-1920.	2.5	5
36	A close-up view of codon selection in eukaryotic initiation. RNA Biology, 2017, 14, 815-819.	3.1	8

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37	Thermodynamics of the Purine Nucleoside Phosphorylase Reaction Revealed by Computer Simulations. Biochemistry, 2017, 56, 306-312.	2.5	4
38	The GPR139 reference agonists 1a and 7c, and tryptophan and phenylalanine share a common binding site. Scientific Reports, 2017, 7, 1128.	3.3	25
39	Cold Adaptation of Triosephosphate Isomerase. Biochemistry, 2017, 56, 4169-4176.	2.5	24
40	Effect of Nitrogen Atom Substitution in A ₃ Adenosine Receptor Binding: <i>N</i> -(4,6-Diarylpyridin-2-yl)acetamides as Potent and Selective Antagonists. Journal of Medicinal Chemistry, 2017, 60, 7502-7511.	6.4	14
41	Origin of the omnipotence of eukaryotic release factor 1. Nature Communications, 2017, 8, 1425.	12.8	15
42	Structure-Based Design of Potent and Selective Ligands at the Four Adenosine Receptors. Molecules, 2017, 22, 1945.	3.8	30
43	Enzyme surface rigidity tunes the temperature dependence of catalytic rates. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7822-7827.	7.1	74
44	Computer Simulations Reveal Substrate Specificity of Glycosidic Bond Cleavage in Native and Mutant Human Purine Nucleoside Phosphorylase. Biochemistry, 2016, 55, 2153-2162.	2.5	11
45	Binding to and Inhibition of Insulin-Regulated Aminopeptidase by Macrocyclic Disulfides Enhances Spine Density. Molecular Pharmacology, 2016, 89, 413-424.	2.3	35
46	Aryl Sulfonamide Inhibitors of Insulin-Regulated Aminopeptidase Enhance Spine Density in Primary Hippocampal Neuron Cultures. ACS Chemical Neuroscience, 2016, 7, 1383-1392.	3.5	27
47	The Competing Mechanisms of Phosphate Monoester Dianion Hydrolysis. Journal of the American Chemical Society, 2016, 138, 10664-10673.	13.7	46
48	Peptide Release on the Ribosome Involves Substrate-Assisted Base Catalysis. ACS Catalysis, 2016, 6, 8432-8439.	11.2	15
49	Principles of start codon recognition in eukaryotic translation initiation. Nucleic Acids Research, 2016, 44, 8425-8432.	14.5	33
50	Conserved Motifs in Different Classes of GTPases Dictate their Specific Modes of Catalysis. ACS Catalysis, 2016, 6, 1737-1743.	11.2	24
51	Structural determinants of subtype selectivity and functional activity of angiotensin II receptors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1355-1359.	2.2	15
52	Enzyme catalysis by entropy without Circe effect. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2406-2411.	7.1	50
53	Exceptionally large entropy contributions enable the high rates of GTP hydrolysis on the ribosome. Scientific Reports, 2015, 5, 15817.	3.3	31
54	Chemical reaction mechanisms in solution from brute force computational Arrhenius plots. Nature Communications, 2015, 6, 7293.	12.8	47

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55	Free energy calculations of A _{2A} adenosine receptor mutation effects on agonist binding. Chemical Communications, 2015, 51, 3522-3525.	4.1	33
56	Origin of the Enigmatic Stepwise Tight-Binding Inhibition of Cyclooxygenase-1. Biochemistry, 2015, 54, 7283-7291.	2.5	17
57	Editorial preface. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 859-860.	2.4	1
58	Resolving Apparent Conflicts between Theoretical and Experimental Models of Phosphate Monoester Hydrolysis. Journal of the American Chemical Society, 2015, 137, 1081-1093.	13.7	92
59	Qgui: A high-throughput interface for automated setup and analysis of free energy calculations and empirical valence bond simulations in biological systems. Journal of Molecular Graphics and Modelling, 2015, 60, 15-23.	2.4	14
60	Modeling the mechanisms of biological GTP hydrolysis. Archives of Biochemistry and Biophysics, 2015, 582, 80-90.	3.0	48
61	The Conformation of a Catalytic Loop Is Central to GTPase Activity on the Ribosome. Biochemistry, 2015, 54, 546-556.	2.5	30
62	Binding Site Preorganization and Ligand Discrimination in the Purine Riboswitch. Journal of Physical Chemistry B, 2015, 119, 773-782.	2.6	20
63	Computer-Aided Design of GPCR Ligands. Methods in Molecular Biology, 2015, 1272, 271-291.	0.9	10
64	Protein Surface Softness Is the Origin of Enzyme Cold-Adaptation of Trypsin. PLoS Computational Biology, 2014, 10, e1003813.	3.2	63
65	Computational Prediction of Alanine Scanning and Ligand Binding Energetics in G-Protein Coupled Receptors. PLoS Computational Biology, 2014, 10, e1003585.	3.2	58
66	Why base tautomerization does not cause errors in mRNA decoding on the ribosome. Nucleic Acids Research, 2014, 42, 12876-12884.	14.5	27
67	Permeation Redux: Thermodynamics and Kinetics of Ion Movement through Potassium Channels. Biophysical Journal, 2014, 106, 1859-1863.	0.5	30
68	Energetic Tuning by tRNA Modifications Ensures Correct Decoding of Isoleucine and Methionine on the Ribosome. Chemistry - A European Journal, 2014, 20, 10271-10275.	3.3	16
69	Structure-Based Energetics of mRNA Decoding on the Ribosome. Biochemistry, 2014, 53, 1714-1722.	2.5	50
70	Force Field Independent Metal Parameters Using a Nonbonded Dummy Model. Journal of Physical Chemistry B, 2014, 118, 4351-4362.	2.6	148
71	Toward an Optimal Docking and Free Energy Calculation Scheme in Ligand Design with Application to COX-1 Inhibitors. Journal of Chemical Information and Modeling, 2014, 54, 1488-1499.	5.4	20
72	Structural and Energetic Effects of A2A Adenosine Receptor Mutations on Agonist and Antagonist Binding. PLoS ONE, 2014, 9, e108492.	2.5	46

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73	Energetics of activation of GTP hydrolysis on the ribosome. Nature Communications, 2013, 4, 1733.	12.8	47
74	Codon-reading specificities of mitochondrial release factors and translation termination at non-standard stop codons. Nature Communications, 2013, 4, 2940.	12.8	41
75	Evaluation of Adamantane Derivatives as Inhibitors of Dengue Virus mRNA Cap Methyltransferase by Docking and Molecular Dynamics Simulations. Molecular Informatics, 2013, 32, 155-164.	2.5	12
76	Mutagenesis and Computational Modeling of Human G-Protein-Coupled Receptor Y2 for Neuropeptide Y and Peptide YY. Biochemistry, 2013, 52, 7987-7998.	2.5	23
77	Bridging the gap between ribosome structure and biochemistry by mechanistic computations. Current Opinion in Structural Biology, 2012, 22, 815-823.	5.7	24
78	A Role for the 2′ OH of Peptidyl-tRNA Substrate in Peptide Release on the Ribosome Revealed through RF-Mediated Rescue. Chemistry and Biology, 2012, 19, 983-993.	6.0	20
79	Folding-Reaction Coupling in a Self-Cleaving Protein. Journal of Chemical Theory and Computation, 2012, 8, 3871-3879.	5.3	12
80	Linear Interaction Energy: Method and Applications in Drug Design. Methods in Molecular Biology, 2012, 819, 305-323.	0.9	78
81	Computational prediction of monosaccharide binding free energies to lectins with linear interaction energy models. Journal of Computational Chemistry, 2012, 33, 2340-2350.	3.3	20
82	Computer Simulations of Structure–Activity Relationships for hERG Channel Blockers. Biochemistry, 2011, 50, 6146-6156.	2.5	38
83	Computational Prediction of Structureâ^'Activity Relationships for the Binding of Aminocyclitols to β-Glucocerebrosidase. Journal of Chemical Information and Modeling, 2011, 51, 601-611.	5.4	14
84	Comment on "The Mechanism for Activation of GTP Hydrolysis on the Ribosome― Science, 2011, 333, 37-37.	12.6	38
85	pH-sensitivity of the ribosomal peptidyl transfer reaction dependent on the identity of the A-site aminoacyl-tRNA. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 79-84.	7.1	127
86	Toward a Consensus Model of the hERG Potassium Channel. ChemMedChem, 2010, 5, 455-467.	3.2	66
87	Phe369(7.38) at human 5â€HT ₇ receptors confers interspecies selectivity to antagonists and partial agonists. British Journal of Pharmacology, 2010, 159, 1069-1081.	5.4	13
88	Principles of stop-codon reading on the ribosome. Nature, 2010, 465, 947-950.	27.8	64
89	The transition state for peptide bond formation reveals the ribosome as a water trap. Proceedings of the United States of America, 2010, 107, 1888-1893.	7.1	69
90	α-Substituted norstatines as the transition-state mimic in inhibitors of multiple digestive vacuole malaria aspartic proteases. Bioorganic and Medicinal Chemistry, 2009, 17, 5933-5949.	3.0	36

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91	Mutagenesis and Homology Modeling of the Tn21 Integron Integrase Intl1. Biochemistry, 2009, 48, 1743-1753.	2.5	8
92	Mechanism of the Translation Termination Reaction on the Ribosome. Biochemistry, 2009, 48, 11296-11303.	2.5	38
93	Protein Autoproteolysis: Conformational Strain Linked to the Rate of Peptide Cleavage by the pH Dependence of the N → O Acyl Shift Reaction. Journal of the American Chemical Society, 2009, 131, 9475-9477.	13.7	56
94	Does Glutamine Methylation Affect the Intrinsic Conformation of the Universally Conserved GGQ Motif in Ribosomal Release Factors?. Biochemistry, 2009, 48, 3483-3489.	2.5	5
95	Charges for Large Scale Binding Free Energy Calculations with the Linear Interaction Energy Method. Journal of Chemical Theory and Computation, 2009, 5, 380-395.	5.3	12
96	Absolute Hydration Entropies of Alkali Metal Ions from Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2009, 113, 10255-10260.	2.6	41
97	Molecular dynamics study of heparin based coatings. Biomaterials, 2008, 29, 4463-4469.	11.4	5
98	Ligand Binding to the Voltage-Gated Kv1.5 Potassium Channel in the Open State—Docking and Computer Simulations of a Homology Model. Biophysical Journal, 2008, 94, 820-831.	0.5	60
99	Combining Docking, Molecular Dynamics and the Linear Interaction Energy Method to Predict Binding Modes and Affinities for Non-nucleoside Inhibitors to HIV-1 Reverse Transcriptase. Journal of Medicinal Chemistry, 2008, 51, 2648-2656.	6.4	79
100	Role of Ribosomal Protein L27 in Peptidyl Transfer. Biochemistry, 2008, 47, 4898-4906.	2.5	39
101	Predicting Binding Modes from Free Energy Calculations. Journal of Medicinal Chemistry, 2008, 51, 2657-2667.	6.4	34
102	Cold Adaptation of Enzyme Reaction Rates. Biochemistry, 2008, 47, 10049-10057.	2.5	90
103	Structures of Mycobacterium tuberculosis 1-Deoxy-D-xylulose-5-phosphate Reductoisomerase Provide New Insights into Catalysis. Journal of Biological Chemistry, 2007, 282, 19905-19916.	3.4	77
104	A Model for How Ribosomal Release Factors Induce Peptidyl-tRNA Cleavage in Termination of Protein Synthesis. Molecular Cell, 2007, 27, 758-766.	9.7	80
105	Improving the Accuracy of the Linear Interaction Energy Method for Solvation Free Energies. Journal of Chemical Theory and Computation, 2007, 3, 2162-2175.	5.3	112
106	Energetics of Codonâ^'Anticodon Recognition on the Small Ribosomal Subunitâ€. Biochemistry, 2007, 46, 200-209.	2.5	29
107	Active Site of Epoxide Hydrolases Revisited:  A Noncanonical Residue in Potato StEH1 Promotes both Formation and Breakdown of the Alkylenzyme Intermediate. Biochemistry, 2007, 46, 2466-2479.	2.5	19
108	Virtual screening and bioassay study of novel inhibitors for dengue virus mRNA cap (nucleoside-2′O)-methyltransferase. Bioorganic and Medicinal Chemistry, 2007, 15, 7795-7802.	3.0	72

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109	Computational inhibitor design against malaria plasmepsins. Cellular and Molecular Life Sciences, 2007, 64, 2285-2305.	5.4	43
110	Calculations of solute and solvent entropies from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2006, 8, 5385-5395.	2.8	69
111	Free energy calculations show that acidic P1 variants undergo large pKa shifts upon binding to trypsin. Proteins: Structure, Function and Bioinformatics, 2006, 64, 740-748.	2.6	17
112	Probing the Effect of Point Mutations at Protein-Protein Interfaces with Free Energy Calculations. Biophysical Journal, 2006, 90, 433-442.	0.5	59
113	Continuum Solvation Models in the Linear Interaction Energy Method. Journal of Physical Chemistry B, 2006, 110, 12034-12041.	2.6	52
114	Analysis of Predictions for the Catalytic Mechanism of Ribosomal Peptidyl Transferâ€. Biochemistry, 2006, 45, 7049-7056.	2.5	89
115	Computational Study of the Binding Affinity and Selectivity of the Bacterial Ammonium Transporter AmtBâ€. Biochemistry, 2006, 45, 10807-10814.	2.5	56
116	Inhibitor Binding to the Plasmepsin IV Aspartic Protease from Plasmodium falciparum. Biochemistry, 2006, 45, 10529-10541.	2.5	28
117	Computational analysis of plasmepsin IV bound to an allophenylnorstatine inhibitor. FEBS Letters, 2006, 580, 5910-5916.	2.8	21
118	Macrocyclic inhibitors of the malarial aspartic proteases plasmepsin I, II, and IV. Bioorganic and Medicinal Chemistry, 2006, 14, 2197-2208.	3.0	39
119	Catalysis and Linear Free Energy Relationships in Aspartic Proteasesâ€. Biochemistry, 2006, 45, 7709-7723.	2.5	79
120	Synthesis of Malarial Plasmepsin Inhibitors and Prediction of Binding Modes by Molecular Dynamics Simulations. Journal of Medicinal Chemistry, 2005, 48, 6090-6106.	6.4	61
121	Mechanism of peptide bond synthesis on the ribosome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12395-12400.	7.1	171
122	Absolute and Relative Entropies from Computer Simulation with Applications to Ligand Binding. Journal of Physical Chemistry B, 2005, 109, 6448-6456.	2.6	130
123	Exploring blocker binding to a homology model of the open hERG K+channel using docking and molecular dynamics methods. FEBS Letters, 2005, 579, 2939-2944.	2.8	103
124	Design, synthesis, and computational affinity prediction of ester soft drugs as inhibitors of dihydrofolate reductase from Pneumocystis carinii. European Journal of Pharmaceutical Sciences, 2004, 22, 43-54.	4.0	22
125	Binding affinity prediction with different force fields: Examination of the linear interaction energy method. Journal of Computational Chemistry, 2004, 25, 1242-1254.	3.3	125
126	Comparative Analysis of Putative Agonist-Binding Modes in the Human A1 Adenosine Receptor. ChemBioChem, 2004, 5, 841-849.	2.6	10

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127	Molecular dynamics simulations of water and biomolecules with a Monte Carlo constant pressure algorithm. Chemical Physics Letters, 2004, 384, 288-294.	2.6	277
128	Computational Prediction of Structure, Substrate Binding Mode, Mechanism, and Rate for a Malaria Protease with a Novel Type of Active Site. Biochemistry, 2004, 43, 14521-14528.	2.5	68
129	Potent Inhibitors of the Plasmodium falciparum Enzymes Plasmepsin I and II Devoid of Cathepsin D Inhibitory Activity. Journal of Medicinal Chemistry, 2004, 47, 110-122.	6.4	107
130	Computational modelling of the open-state Kv1.5 ion channel block by bupivacaine. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1652, 35-51.	2.3	29
131	C2-Symmetric inhibitors of Plasmodium falciparum plasmepsin II: synthesis and theoretical predictions. Bioorganic and Medicinal Chemistry, 2003, 11, 3723-3733.	3.0	46
132	Structure-activity relationship for extracellular block of K+ channels by tetraalkylammonium ions. FEBS Letters, 2003, 554, 159-164.	2.8	23
133	Free Energy Calculations and Ligand Binding. Advances in Protein Chemistry, 2003, 66, 123-158.	4.4	177
134	The Catalytic Power of Ketosteroid Isomerase Investigated by Computer Simulationâ€. Biochemistry, 2002, 41, 15728-15735.	2.5	48
135	Computational Study of the Influence of Solvent on16O/18O Equilibrium Isotope Effects in Phosphate Deprotonation Reactions. Journal of the American Chemical Society, 2002, 124, 10130-10135.	13.7	15
136	Ligand Binding Affinities from MD Simulations. Accounts of Chemical Research, 2002, 35, 358-365.	15.6	348
137	Computational and NMR study of quaternary ammonium ion conformations in solution. Physical Chemistry Chemical Physics, 2002, 4, 4640-4647.	2.8	62
138	Computational modeling of enzymatic keto-enol isomerization reactions. Theoretical Chemistry Accounts, 2002, 108, 71-84.	1.4	49
139	Computational analysis of binding of P1 variants to trypsin. Protein Science, 2001, 10, 1584-1595.	7.6	47
140	Mechanisms of tetraethylammonium ion block in the KcsA potassium channel. FEBS Letters, 2001, 495, 191-196.	2.8	78
141	The catalytic mechanism of protein tyrosine phosphatases revisited. FEBS Letters, 2001, 498, 208-213.	2.8	87
142	Electrostatic effects play a central role in cold adaptation of trypsin. FEBS Letters, 2001, 499, 171-175.	2.8	38
143	Design, Synthesis, Computational Prediction, and Biological Evaluation of Ester Soft Drugs as Inhibitors of Dihydrofolate Reductase fromPneumocystis carinii. Journal of Medicinal Chemistry, 2001, 44, 2391-2402.	6.4	86
144	K+/Na+ selectivity of the KcsA potassium channel from microscopic free energy perturbation calculations. BBA - Proteins and Proteomics, 2001, 1548, 194-202.	2.1	100

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145	Computational modelling of inhibitor binding to human thrombin. European Journal of Pharmaceutical Sciences, 2001, 12, 441-446.	4.0	45
146	Sensitivity of an empirical affinity scoring function to changes in receptor–ligand complex conformations. European Journal of Pharmaceutical Sciences, 2001, 14, 87-95.	4.0	13
147	The Linear Interaction Energy Method for Predicting Ligand Binding Free Energies. Combinatorial Chemistry and High Throughput Screening, 2001, 4, 613-626.	1.1	156
148	Ion permeation mechanism of the potassium channel. Nature, 2000, 404, 881-884.	27.8	418
149	A computational study of ion binding and protonation states in the KcsA potassium channel. BBA - Proteins and Proteomics, 2000, 1481, 360-370.	2.1	71
150	Computer Simulation of Primary Kinetic Isotope Effects in the Proposed Rate-limiting Step of the Glyoxalase I Catalyzed Reaction. Journal of Biological Chemistry, 2000, 275, 22657-22662.	3.4	48
151	The Deacylation Step of Acetylcholinesterase:Â Computer Simulation Studies. Journal of the American Chemical Society, 2000, 122, 12254-12262.	13.7	48
152	Prediction of a ligand-induced conformational change in the catalytic core of Cdc25A. FEBS Letters, 2000, 465, 8-11.	2.8	10
153	Computational Predictions of Binding Affinities to Dihydrofolate Reductase:  Synthesis and Biological Evaluation of Methotrexate Analogues. Journal of Medicinal Chemistry, 2000, 43, 3852-3861.	6.4	36
154	Mechanistic alternatives in phosphate monoester hydrolysis: What conclusions can be drawn from available experimental data?. Chemistry and Biology, 1999, 6, R71-R80.	6.0	138
155	Free-energy perturbation calculations of binding and transition-state energies: hydrolysis of phenyl esters by l²-cyclodextrin. Chemical Physics Letters, 1999, 302, 267-272.	2.6	22
156	Molecular Dynamics Simulations of Substrate Dephosphorylation by Low Molecular Weight Protein Tyrosine Phosphatase. ACS Symposium Series, 1999, , 370-383.	0.5	3
157	Computational modeling of catalysis and binding in low-molecular-weight protein tyrosine phosphatase. International Journal of Quantum Chemistry, 1999, 73, 147-159.	2.0	12
158	Mechanism of substrate dephosphorylation in lowMr protein tyrosine phosphatase. , 1999, 36, 370-379.		22
159	Energetics of the proposed rate-determining step of the glyoxalase I reaction. FEBS Letters, 1999, 453, 90-94.	2.8	25
160	Computational modeling of the rate limiting step in low molecular weight protein tyrosine phosphatase. FEBS Letters, 1999, 456, 301-305.	2.8	23
161	Long-range electrostatic effects on peptide folding. FEBS Letters, 1999, 457, 414-418.	2.8	15
162	Computation of affinity and selectivity: binding of 2,4-diaminopteridine and 2,4-diaminoquinazoline inhibitors to dihydrofolate reductases. Journal of Computer-Aided Molecular Design, 1998, 12, 119-131.	2.9	56

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163	Ligand binding affinity prediction by linear interaction energy methods. Journal of Computer-Aided Molecular Design, 1998, 12, 27-35.	2.9	401
164	Q: a molecular dynamics program for free energy calculations and empirical valence bond simulations in biomolecular systems. Journal of Molecular Graphics and Modelling, 1998, 16, 213-225.	2.4	291
165	Analysis of Electrostatic Potential Truncation Schemes in Simulations of Polar Solvents. Journal of Physical Chemistry B, 1998, 102, 3837-3840.	2.6	63
166	Computer Simulation of Phenyl Ester Cleavage by β-Cyclodextrin in Solution. Journal of the American Chemical Society, 1998, 120, 6131-6137.	13.7	32
167	On the Reactivity of Phosphate Monoester Dianions in Aqueous Solution:Â BrÃ,nsted Linear Free-Energy Relationships Do Not Have an Unique Mechanistic Interpretation. Journal of the American Chemical Society, 1998, 120, 11524-11525.	13.7	62
168	Cyclic HIV-1 Protease Inhibitors Derived from Mannitol:Â Synthesis, Inhibitory Potencies, and Computational Predictions of Binding Affinities. Journal of Medicinal Chemistry, 1997, 40, 885-897.	6.4	158
169	Energetics of nucleophile activation in a protein tyrosine phosphatase. Journal of Molecular Biology, 1997, 265, 118-127.	4.2	77
170	Comment to Daura, X., et al., Proteins 25:89–103, 1996 , 1997, 28, 143-143.		1
171	Calculation of absolute binding free energies for charged ligands and effects of long-range electrostatic interactions. Journal of Computational Chemistry, 1996, 17, 1587-1597.	3.3	146
172	Computer Simulation of the Triosephosphate Isomerase Catalyzed Reaction. Journal of Biological Chemistry, 1996, 271, 10010-10016.	3.4	71
173	On the Validity of Electrostatic Linear Response in Polar Solvents. The Journal of Physical Chemistry, 1996, 100, 9512-9521.	2.9	270
174	Estimation of binding free energies for HIV proteinase inhibitors by molecular dynamics simulations. Protein Engineering, Design and Selection, 1995, 8, 1137-1144.	2.1	142
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