

# Carmay Lim

## List of Publications by Year in Descending Order

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

173  
papers

6,418  
citations

43  
h-index

73  
g-index

183  
ext. papers

7,114  
ext. citations

9.3  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
173	Allosteric coupling between transmembrane segment 4 and the selectivity filter of TALK1 potassium channels regulates their gating by extracellular pH.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101998	5.4	0
172	Synergistic Inhibition of SARS-CoV-2 Replication Using Disulfiram/Ebselen and Remdesivir. <i>ACS Pharmacology and Translational Science</i> , <b>2021</b> , 4, 898-907	5.9	20
171	Metal Affinity/Selectivity of Monophosphate-Containing Signaling/Lipid Molecules. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 2444-2456	6.4	3
170	Influence of solution ionic strength on the stabilities of M20 loop conformations in apo E. coli dihydrofolate reductase. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 195103	3.9	
169	Trinuclear Calcium Site in the C2 Domain of PKC $\alpha$ Is Prone to Lithium Attack. <i>ACS Omega</i> , <b>2021</b> , 6, 20657-20666	3.9	1
168	Sensitive and Specific Cadmium Biosensor Developed by Reconfiguring Metal Transport and Leveraging Natural Gene Repositories. <i>ACS Sensors</i> , <b>2021</b> , 6, 995-1002	9.2	8
167	Calcium in Signaling: Its Specificity and Vulnerabilities toward Biogenic and Abiogenic Metal Ions. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 10419-10431	3.4	1
166	Benchmarking polarizable and non-polarizable force fields for Ca-peptides against a comprehensive QM dataset. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 144102	3.9	5
165	How the Local Environment of Functional Sites Regulates Protein Function. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9861-9871	16.4	12
164	Sensitivity of Functional Loop Conformations on Long-Range Electrostatics: Implications for M20 Loop Dynamics in Dihydrofolate Reductase. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 2028-2033	6.4	2
163	Activation Free Energy, Substrate Binding Free Energy, and Enzyme Efficiency Fall in a Very Narrow Range of Values for Most Enzymes. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8444-8453	13.1	5
162	Gene Silencing Mechanisms Revealed by Dynamics of Guide, Target, and Duplex Binding to Argonaute. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 688-699	6.4	1
161	Multi-targeting of functional cysteines in multiple conserved SARS-CoV-2 domains by clinically safe Zn-ejectors. <i>Chemical Science</i> , <b>2020</b> , 11, 9904-9909	9.4	40
160	Factors Governing the Different Functions of Zn-Sites with Identical Ligands in Proteins. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 3946-3954	6.1	4
159	Ran pathway-independent regulation of mitotic Golgi disassembly by Importin- $\beta$ . <i>Nature Communications</i> , <b>2019</b> , 10, 4307	17.4	9
158	Free and Bound Therapeutic Lithium in Brain Signaling. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 2960-2970	10.3	4
157	Soluble klotho regulates TRPC6 calcium signaling lipid rafts, independent of the FGFR-FGF23 pathway. <i>FASEB Journal</i> , <b>2019</b> , 33, 9182-9193	0.9	21

156	Why Cellular Di/Triphosphates Preferably Bind Mg and Not Ca. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 6992-7003	6.4	6
155	Competition between Li and Na in sodium transporters and receptors: Which Na-Binding sites are "therapeutic" Li targets?. <i>Chemical Science</i> , <b>2018</b> , 9, 4093-4103	9.4	18
154	How First Shell-Second Shell Interactions and Metal Substitution Modulate Protein Function. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 14052-14061	5.1	2
153	Factors governing when a metal-bound water is deprotonated in proteins. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29625-29636	3.6	5
152	An efficient protocol for computing the pK of Zn-bound water. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29637-29647	3.6	9
151	How Pb Binds and Modulates Properties of Ca-Signaling Proteins. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 14798-14809	4.8	22
150	The Zinc Linchpin Motif in the DNA Repair Glycosylase MUTYH: Identifying the Zn Ligands and Roles in Damage Recognition and Repair. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13260-13271	16.4	4
149	How Native and Non-Native Cations Bind and Modulate the Properties of GTP/ATP. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 3311-3320	6.4	8
148	How Molecular Size Impacts RMSD Applications in Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 1518-1524	6.4	98
147	Modeled structural basis for the recognition of $\alpha$ -3-sialyllactose by soluble Klotho. <i>FASEB Journal</i> , <b>2017</b> , 31, 3574-3586	0.9	20
146	How Native and Alien Metal Cations Bind ATP: Implications for Lithium as a Therapeutic Agent. <i>Scientific Reports</i> , <b>2017</b> , 7, 42377	4.9	25
145	Preferred Hydrogen-Bonding Partners of Cysteine: Implications for Regulating Cys Functions. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 10288-10296	3.4	27
144	Influence of the Selectivity Filter Properties on Proton Selectivity in the Influenza A M2 Channel. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13038-13047	16.4	4
143	Structural analysis of disease-related TDP-43 D169G mutation: linking enhanced stability and caspase cleavage efficiency to protein accumulation. <i>Scientific Reports</i> , <b>2016</b> , 6, 21581	4.9	47
142	Factors controlling the selectivity for Na(+) over Mg(2+) in sodium transporters and enzymes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 16986-97	3.6	15
141	Factors Governing the Bridging Water Protonation State in Polynuclear Mg(2+) Proteins. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1759-70	3.4	3
140	Potassium Versus Sodium Selectivity in Monovalent Ion Channel Selectivity Filters. <i>Metal Ions in Life Sciences</i> , <b>2016</b> , 16, 325-47	2.6	4
139	Structural Basis for the Magnesium-Dependent Activation and Hexamerization of the Lon AAA+ Protease. <i>Structure</i> , <b>2016</b> , 24, 676-686	5.2	28

138	Using an Old Drug to Target a New Drug Site: Application of Disulfiram to Target the Zn-Site in HCV NSSA Protein. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3856-62	16.4	26
137	Efficient Binding of Flexible and Redox-Active Coenzymes by Oxidoreductases. <i>ACS Catalysis</i> , <b>2016</b> , 6, 3469-3472	13.1	4
136	Protein Dynamics and Contact Topology Reveal Protein-DNA Binding Orientation. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 5269-5277	6.4	7
135	Selectivity Mechanism of the Voltage-gated Proton Channel, HV1. <i>Scientific Reports</i> , <b>2015</b> , 5, 10320	4.9	41
134	Quantum-chemistry based calibration of the alkali metal cation series (Li(+)-Cs(+)) for large-scale polarizable molecular mechanics/dynamics simulations. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 285-302	3.5	11
133	Clustangles: An Open Library for Clustering Angular Data. <i>Journal of Chemical Information and Modeling</i> , <b>2015</b> , 55, 1517-20	6.1	2
132	Relationship between Enzyme/Substrate Properties and Enzyme Efficiency in Hydrolases. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5877-5887	13.1	20
131	Ion selectivity in the selectivity filters of acid-sensing ion channels. <i>Scientific Reports</i> , <b>2015</b> , 5, 7864	4.9	18
130	Structural and Physical Basis for Anti-IgE Therapy. <i>Scientific Reports</i> , <b>2015</b> , 5, 11581	4.9	33
129	A simple biophysical model emulates budding yeast chromosome condensation. <i>ELife</i> , <b>2015</b> , 4, e05565	8.9	71
128	Ion selectivity strategies of sodium channel selectivity filters. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 3580-7	24.3	46
127	Modeling Zn <sup>2+</sup> release from metallothionein. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 9244-52	2.8	9
126	An azido-BODIPY probe for glycosylation: initiation of strong fluorescence upon triazole formation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9953-61	16.4	76
125	Two potential therapeutic antibodies bind to a peptide segment of membrane-bound IgE in different conformations. <i>Nature Communications</i> , <b>2014</b> , 5, 3139	17.4	15
124	Evolution of eukaryotic ion channels: principles underlying the conversion of Ca <sup>2+</sup> -selective to Na <sup>+</sup> -selective channels. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3553-9	16.4	20
123	Sequence-motif detection of NAD(P)-binding proteins: discovery of a unique antibacterial drug target. <i>Scientific Reports</i> , <b>2014</b> , 4, 6471	4.9	24
122	Factors Controlling the Role of Zn and Reactivity of Zn-bound Cysteines in Proteins: Application to Drug Target Discovery. <i>Journal of the Chinese Chemical Society</i> , <b>2014</b> , 61, 142-150	1.5	17
121	Identifying RNA-binding residues based on evolutionary conserved structural and energetic features. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, e15	20.1	15

120	Competition among metal ions for protein binding sites: determinants of metal ion selectivity in proteins. <i>Chemical Reviews</i> , <b>2014</b> , 114, 538-56	68.1	247
119	Differential role of the protein matrix on the binding of a catalytic aspartate to Mg <sup>2+</sup> vs Ca <sup>2+</sup> : application to ribonuclease H. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6541-8	16.4	17
118	Identification of labile Zn sites in drug-target proteins. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14028-31	16.4	15
117	Importance of metal hydration on the selectivity of Mg <sup>2+</sup> versus Ca <sup>2+</sup> in magnesium ion channels. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 17200-8	16.4	42
116	Protein-Protein Docking Using EMAP in CHARMM and Support Vector Machine: Application to Ab/Ag Complexes. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4186-94	6.4	2
115	The effect of metal binding on the characteristic infrared band intensities of ligands of biological interest. <i>Journal of Molecular Structure</i> , <b>2012</b> , 1009, 83-88	3.4	11
114	The IgE gene in primates exhibits extraordinary evolutionary diversity. <i>Immunogenetics</i> , <b>2012</b> , 64, 279-87	3.2	11
113	Why voltage-gated Ca <sup>2+</sup> and bacterial Na <sup>+</sup> channels with the same EEEE motif in their selectivity filters confer opposite metal selectivity. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 12451-6	3.6	31
112	Competition among Ca <sup>2+</sup> , Mg <sup>2+</sup> , and Na <sup>+</sup> for model ion channel selectivity filters: determinants of ion selectivity. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 10703-14	3.4	38
111	Hidden relationship between conserved residues and locally conserved phosphate-binding structures in NAD(P)-binding proteins. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 5644-52	3.4	9
110	DR_bind: a web server for predicting DNA-binding residues from the protein structure based on electrostatics, evolution and geometry. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, W249-56	20.1	34
109	GeoPCA: a new tool for multivariate analysis of dihedral angles based on principal component geodesics. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, e25	20.1	14
108	Linking distinct conformations of nicotinamide adenine dinucleotide with protein fold/function. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 7932-9	3.4	15
107	Factors controlling the reactivity of zinc finger cores. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8691-703	16.4	43
106	Competition between Li <sup>+</sup> and Mg <sup>2+</sup> in metalloproteins. Implications for lithium therapy. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 9506-15	16.4	67
105	Arrangement of 3D structural motifs in ribosomal RNA. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 3512-22	20.1	9
104	A structural-alphabet-based strategy for finding structural motifs across protein families. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, e150	20.1	19
103	Factors governing the Na <sup>(+)</sup> vs K <sup>(+)</sup> selectivity in sodium ion channels. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2321-32	16.4	64

102	Protein/solvent medium effects on Mg(2+)-carboxylate interactions in metalloenzymes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6290-1	16.4	10
101	Conserved structural motif for recognizing nicotinamide adenine dinucleotide in poly(ADP-ribose) polymerases and ADP-ribosylating toxins: implications for structure-based drug design. <i>Journal of Medicinal Chemistry</i> , <b>2010</b> , 53, 4038-49	8.3	7
100	Factors controlling the mechanism of NAD(+) non-redox reactions. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 16533-43	16.4	11
99	Force fields including charge transfer and local polarization effects: Application to proteins containing multi/heavy metal ions. <i>Journal of Computational Chemistry</i> , <b>2009</b> , 30, 191-202	3.5	44
98	Strategies to model the near-solute solvent molecular density/polarization. <i>Journal of Computational Chemistry</i> , <b>2009</b> , 30, 700-9	3.5	12
97	Combined experimental and theoretical study of long-range interactions modulating dimerization and activity of yeast geranylgeranyl diphosphate synthase. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 4051-62	16.4	11
96	Metal-binding affinity and selectivity of nonstandard natural amino acid residues from DFT/CDM calculations. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 11754-64	3.4	20
95	Determinants of K <sup>+</sup> vs Na <sup>+</sup> selectivity in potassium channels. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 8092-101	16.4	80
94	Factors governing metal-ligand distances and coordination geometries of metal complexes. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 2952-60	3.4	88
93	Redesign of high-affinity nonspecific nucleases with altered sequence preference. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17345-53	16.4	12
92	Metal binding affinity and selectivity in metalloproteins: insights from computational studies. <i>Annual Review of Biophysics</i> , <b>2008</b> , 37, 97-116	21.1	177
91	Physical basis of structural and catalytic Zn-binding sites in proteins. <i>Journal of Molecular Biology</i> , <b>2008</b> , 379, 545-53	6.5	88
90	The importance of excluded solvent volume effects in computing hydration free energies. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 14863-8	3.4	16
89	Mononuclear versus binuclear metal-binding sites: metal-binding affinity and selectivity from PDB survey and DFT/CDM calculations. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3844-52	16.4	33
88	Reformulation of Maxwell's equations to incorporate near-solute solvent structure. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 10791-4	3.4	13
87	Common physical basis of macromolecule-binding sites in proteins. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 7078-87	8.7	19
86	Predicting RNA-binding sites from the protein structure based on electrostatics, evolution and geometry. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, e29	20.1	38
85	All-electron calculations of the nucleation structures in metal-induced zinc-finger folding: role of the Peptide backbone. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12497-504	16.4	20

84	Polarization-consistent versus correlation-consistent basis sets in predicting molecular and spectroscopic properties. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 1927-32	2.8	55
83	Predicting DNA-binding amino acid residues from electrostatic stabilization upon mutation to Asp/Glu and evolutionary conservation. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 67, 671-80 <sup>4-2</sup>	4.2	18
82	Discovering structural motifs using a structural alphabet: application to magnesium-binding sites. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 106	3.6	51
81	Mechanism of DNA-binding loss upon single-point mutation in p53. <i>Journal of Biosciences</i> , <b>2007</b> , 32, 827-39	3.9	17
80	Effect of carboxylate-binding mode on metal binding/selectivity and function in proteins. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 85-93	24.3	99
79	Factors governing the metal coordination number in isolated group IA and IIA metal hydrates. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 4811-9	5.1	42
78	Competition between protein ligands and cytoplasmic inorganic anions for the metal cation: a DFT/CDM study. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10541-8	16.4	11
77	A DFT/CDM Study of metal-carboxylate interactions in metalloproteins: factors governing the maximum number of metal-bound carboxylates. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1553-61	16.4	53
76	Empirical force fields for biologically active divalent metal cations in water. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 691-9	2.8	115
75	Factors governing the metal coordination number in metal complexes from Cambridge Structural Database analyses. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 1889-95	3.4	93
74	Quantifying polypeptide conformational space: sensitivity to conformation and ensemble definition. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16707-17	3.4	2
73	Toward absolute density of states calculations for proteins. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 12125-8	3.4	2
72	Computational studies of the coordination stereochemistry, bonding, and metal selectivity of mercury. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 452-62	2.8	41
71	Zn protein simulations including charge transfer and local polarization effects. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4921-9	16.4	116
70	Factors governing the substitution of La <sup>3+</sup> for Ca <sup>2+</sup> and Mg <sup>2+</sup> in metalloproteins: a DFT/CDM study. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4091-103	16.4	53
69	Differential effects of the Zn-His-Bkb vs Zn-His-[Asp/Glu] triad on Zn-core stability and reactivity. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11336-47	16.4	27
68	Monodentate versus Bidentate Carboxylate Binding in Magnesium and Calcium Proteins: What Are the Basic Principles?. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 4546-4557	3.4	100
67	Oxyanion selectivity in sulfate and molybdate transport proteins: an ab initio/CDM study. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10296-305	16.4	19

66	Factors governing the protonation state of Zn-bound histidine in proteins: a DFT/CDM study. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2602-12	16.4	42
65	Configurational Entropy of Proteins: Covariance Matrix versus Cumulative Distribution Calculations. <i>Journal of the Chinese Chemical Society</i> , <b>2004</b> , 51, 1209-1219	1.5	3
64	Comparative effects of human Ig alpha and Ig beta in inducing autoreactive antibodies against B cells in mice. <i>Journal of Immunology</i> , <b>2003</b> , 170, 1158-66	5.3	3
63	Principles governing Mg, Ca, and Zn binding and selectivity in proteins. <i>Chemical Reviews</i> , <b>2003</b> , 103, 773-88	68.1	373
62	A combined experimental and theoretical study of divalent metal ion selectivity and function in proteins: application to E. coli ribonuclease H1. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 9318-28	16.4	61
61	First-second shell interactions in metal binding sites in proteins: a PDB survey and DFT/CDM calculations. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3168-80	16.4	168
60	Metal Binding and Selectivity in Zinc Proteins. <i>Journal of the Chinese Chemical Society</i> , <b>2003</b> , 50, 1093-1102	10.5	28
59	On the charge and molecule based summations of solvent electrostatic potentials and the validity of electrostatic linear response in water. <i>Journal of Biological Physics</i> , <b>2002</b> , 28, 95-113	1.6	17
58	Nonconvergence of the Solute Potential in an Infinite Solvent and Its Implications in Continuum Models?. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12093-12096	3.4	12
57	Factors governing loss and rescue of DNA binding upon single and double mutations in the p53 core domain. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 1563-74	20.1	24
56	Long-Range Effects of Mutating R248 to Q/W in the p53 Core Domain. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 13047-13057	3.4	7
55	Representing an Infinite Solvent System with a Rectangular Finite System Using Image Charges. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2973-2982	3.4	26
54	Factors governing intrinsic chemical reactivity differences between clavulanic and penicillanic acids. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12042-53	16.4	7
53	Factors governing the protonation state of cysteines in proteins: an Ab initio/CDM study. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 6759-66	16.4	89
52	A fast method for predicting amino acid mutations that lead to unfolding. <i>Protein Engineering, Design and Selection</i> , <b>2001</b> , 14, 479-86	1.9	14
51	Preparing a human membrane and secreted protein-enriched cDNA library using PCR primers derived from a genomic database. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, E114	20.1	1
50	Metal Selectivity in Metalloproteins: $Zn^{2+}$ vs $Mg^{2+}$ . <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 4446-4453	3.4	63
49	Free energy decomposition of protein-protein interactions. <i>Biophysical Journal</i> , <b>2001</b> , 81, 737-50	2.9	97



48	Solvation free energies of polar molecular solutes: Application of the two-sphere Born radius in continuum models of solvation. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 889	3.9	18
47	Incorporating Nonlinear Solvent Response in Continuum Dielectric Models Using a Two-Sphere Description of the Born Radius. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 5030-5036	2.8	10
46	Modeling Zn <sup>2+</sup> -Cysteinate Complexes in Proteins. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10709-10714	3.4	42
45	Conformational analysis of long spacers in PROSITE patterns. <i>Journal of Molecular Biology</i> , <b>2000</b> , 299, 537-48	6.5	6
44	Tetrahedral vs Octahedral Zinc Complexes with Ligands of Biological Interest: A DFT/CDM Study. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11146-11153	16.4	174
43	Metal Binding in Proteins: The Effect of the Dielectric Medium. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 3692-3694	3.4	52
42	Design, synthesis, and SAR of novel carbapenem antibiotics with high stability to <i>Xanthomonas maltophilia</i> oxyiminocephalosporinase type II. <i>Journal of Medicinal Chemistry</i> , <b>2000</b> , 43, 3632-40	8.3	13
41	Ring Strain VS. Solvent Effects in Phosphate Base Hydrolysis. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>1999</b> , 144, 769-773	1	
40	A new interpretation of the effective Born radius from simulation and experiment. <i>Chemical Physics Letters</i> , <b>1999</b> , 310, 225-228	2.5	32
39	Exploring the dynamic information content of a protein NMR structure: comparison of a molecular dynamics simulation with the NMR and X-ray structures of <i>Escherichia coli</i> ribonuclease HI. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1999</b> , 36, 87-110	4.2	51
38	Theory of Ionic Hydration: Insights from Molecular Dynamics Simulations and Experiment. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 7958-7968	3.4	113
37	Competitive Binding in Magnesium Coordination Chemistry: Water versus Ligands of Biological Interest. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7665-7673	16.4	130
36	Incremental Binding Free Energies in Mg <sup>2+</sup> Complexes: A DFT Study. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 8093-8100	2.8	42
35	Ring Strain Energies from ab Initio Calculations. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 4450-4458	16.4	175
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