

Ulf Ryde

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1270556/publications.pdf>

Version: 2024-02-01

270
papers

18,359
citations

13099

68
h-index

17105

122
g-index

282
all docs

282
docs citations

282
times ranked

15047
citing authors

#	ARTICLE	IF	CITATIONS
1	The MM/PBSA and MM/GBSA methods to estimate ligand-binding affinities. <i>Expert Opinion on Drug Discovery</i> , 2015, 10, 449-461.	5.0	2,907
2	MOLCAS: a program package for computational chemistry. <i>Computational Materials Science</i> , 2003, 28, 222-239.	3.0	1,689
3	Comparison of methods for deriving atomic charges from the electrostatic potential and moments. <i>Journal of Computational Chemistry</i> , 1998, 19, 377-395.	3.3	334
4	Ligand Affinities Predicted with the MM/PBSA Method: Dependence on the Simulation Method and the Force Field. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6596-6606.	6.4	240
5	Structure, strain, and reorganization energy of blue copper models in the protein. <i>International Journal of Quantum Chemistry</i> , 2001, 81, 335-347.	2.0	229
6	Ligand-Binding Affinity Estimates Supported by Quantum-Mechanical Methods. <i>Chemical Reviews</i> , 2016, 116, 5520-5566.	47.7	216
7	Performance of density functionals for first row transition metal systems. <i>Journal of Chemical Physics</i> , 2007, 126, 014103.	3.0	210
8	Protein Flexibility and Conformational Entropy in Ligand Design Targeting the Carbohydrate Recognition Domain of Galectin-3. <i>Journal of the American Chemical Society</i> , 2010, 132, 14577-14589.	13.7	209
9	On the Convergence of QM/MM Energies. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 761-777.	5.3	185
10	The Cupric Geometry of Blue Copper Proteins is not Strained. <i>Journal of Molecular Biology</i> , 1996, 261, 586-596.	4.2	176
11	On the role of the axial ligand in heme proteins: a theoretical study. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 203-223.	2.6	176
12	The coordination of the catalytic zinc ion in alcohol dehydrogenase studied by combined quantum-chemical and molecular mechanics calculations. <i>Journal of Computer-Aided Molecular Design</i> , 1996, 10, 153-164.	2.9	171
13	How O ₂ Binds to Heme. <i>Journal of Biological Chemistry</i> , 2004, 279, 14561-14569.	3.4	170
14	Theoretical Prediction of the Co-C Bond Strength in Cobalamins. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7539-7545.	2.5	168
15	How to obtain statistically converged MM/GBSA results. <i>Journal of Computational Chemistry</i> , 2010, 31, 837-846.	3.3	167
16	The Normal-Mode Entropy in the MM/GBSA Method: Effect of System Truncation, Buffer Region, and Dielectric Constant. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2079-2088.	5.4	166
17	Relation between the Structure and Spectroscopic Properties of Blue Copper Proteins. <i>Journal of the American Chemical Society</i> , 1998, 120, 13156-13166.	13.7	158
18	Structures of the high-valent metal-ion haem-oxygen intermediates in peroxidases, oxygenases and catalases. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 460-476.	3.5	152

#	ARTICLE	IF	CITATIONS
19	The Carbohydrate-Binding Site in Galectin-3 Is Preorganized To Recognize a Sugarlike Framework of Oxygens: Ultra-High-Resolution Structures and Water Dynamics. <i>Biochemistry</i> , 2012, 51, 296-306.	2.5	137
20	Quantum Mechanical Free Energy Barrier for an Enzymatic Reaction. <i>Physical Review Letters</i> , 2005, 94, 138302.	7.8	136
21	A Comparison of the Inner-Sphere Reorganization Energies of Cytochromes, Iron-Sulfur Clusters, and Blue Copper Proteins. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5546-5552.	2.6	135
22	Metal Ion Enhanced Binding of AMD3100 to Asp262 in the CXCR4 Receptor. <i>Biochemistry</i> , 2003, 42, 710-717.	2.5	134
23	Accurate QM/MM Free Energy Calculations of Enzyme Reactions: Methylation by Catechol O-Methyltransferase. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 1240-1251.	5.3	133
24	An MM/3D-RISM Approach for Ligand Binding Affinities. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8505-8516.	2.6	129
25	Molecular dynamics simulations of alcohol dehydrogenase with a four- or five-coordinate catalytic zinc ion. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 21, 40-56.	2.6	124
26	Quantum Chemistry Can Locally Improve Protein Crystal Structures. <i>Journal of the American Chemical Society</i> , 2003, 125, 14232-14233.	13.7	124
27	An improved method to predict the entropy term with the MM/PBSA approach. <i>Journal of Computer-Aided Molecular Design</i> , 2009, 23, 63-71.	2.9	122
28	Quantum Refinement Does Not Support Dinuclear Copper Sites in Crystal Structures of Particulate Methane Monooxygenase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 162-166.	13.8	122
29	Prediction of Activation Energies for Hydrogen Abstraction by Cytochrome P450. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6489-6499.	6.4	120
30	How the Co-C Bond Is Cleaved in Coenzyme B ₁₂ Enzymes: A Theoretical Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 9117-9128.	13.7	118
31	Theoretical Study of the Electronic Spectrum of Plastocyanin. <i>Journal of the American Chemical Society</i> , 1997, 119, 218-226.	13.7	117
32	Carboxylate Binding Modes in Zinc Proteins: A Theoretical Study. <i>Biophysical Journal</i> , 1999, 77, 2777-2787.	0.5	115
33	A QM/MM Investigation of the Activation and Catalytic Mechanism of Fe-Only Hydrogenases. <i>Inorganic Chemistry</i> , 2007, 46, 5911-5921.	4.0	112
34	Computational modelling of oxygenation processes in enzymes and biomimetic model complexes. <i>Chemical Communications</i> , 2014, 50, 262-282.	4.1	110
35	Comparison of Methods to Obtain Force-Field Parameters for Metal Sites. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2452-2463.	5.3	108
36	Quantum Crystallography: Current Developments and Future Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, 10881-10905.	3.3	108

#	ARTICLE	IF	CITATIONS
37	Combined quantum and molecular mechanics calculations on metalloproteins. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 136-142.	6.1	106
38	Quantum chemical geometry optimizations in proteins using crystallographic raw data. <i>Journal of Computational Chemistry</i> , 2002, 23, 1058-1070.	3.3	104
39	On the significance of hydrogen bonds for the discrimination between CO and O ₂ by myoglobin. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 99-110.	2.6	101
40	How Accurate Can a Force Field Become? A Polarizable Multipole Model Combined with Fragment-wise Quantum-Mechanical Calculations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 617-627.	2.5	99
41	A fundamental view of enthalpy-entropy compensation. <i>MedChemComm</i> , 2014, 5, 1324-1336.	3.4	98
42	Inner-Sphere Reorganization Energy of Iron-Sulfur Clusters Studied with Theoretical Methods. <i>Inorganic Chemistry</i> , 2001, 40, 2509-2519.	4.0	97
43	O-binding to heme: electronic structure and spectrum of oxyheme, studied by multiconfigurational methods. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 45-54.	3.5	97
44	Geometry, Reduction Potential, and Reorganization Energy of the Binuclear CuASite, Studied by Density Functional Theory. <i>Journal of the American Chemical Society</i> , 2001, 123, 7866-7876.	13.7	96
45	On the role of strain in blue copper proteins. <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 565-574.	2.6	89
46	Interplay between Conformational Entropy and Solvation Entropy in Protein-Ligand Binding. <i>Journal of the American Chemical Society</i> , 2019, 141, 2012-2026.	13.7	89
47	Influence of the [2Fe] _H Subcluster Environment on the Properties of Key Intermediates in the Catalytic Cycle of [FeFe] Hydrogenases: Hints for the Rational Design of Synthetic Catalysts. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3503-3506.	13.8	86
48	Do Quantum Mechanical Energies Calculated for Small Models of Protein-Active Sites Converge?. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11793-11800.	2.5	86
49	Will molecular dynamics simulations of proteins ever reach equilibrium?. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8662.	2.8	85
50	On the role of Glu68 in alcohol dehydrogenase. <i>Protein Science</i> , 1995, 4, 1124-1132.	7.6	84
51	Quantum chemical calculations of the reorganization energy of blue-copper proteins. <i>Protein Science</i> , 1998, 7, 2659-2668.	7.6	84
52	Sulfoxide, Sulfur, and Nitrogen Oxidation and Dealkylation by Cytochrome P450. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1369-1377.	5.3	83
53	Ligand Affinities Estimated by Quantum Chemical Calculations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1726-1737.	5.3	81
54	Does DFT-D estimate accurate energies for the binding of ligands to metal complexes?. <i>Dalton Transactions</i> , 2011, 40, 11176.	3.3	81

#	ARTICLE	IF	CITATIONS
55	Redesign of the coenzyme specificity in L-Lactate dehydrogenase from <i>Bacillus stearothermophilus</i> using site-directed mutagenesis and media engineering. <i>Protein Engineering, Design and Selection</i> , 1999, 12, 851-856.	2.1	80
56	Accurate Reaction Energies in Proteins Obtained by Combining QM/MM and Large QM Calculations. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 640-649.	5.3	80
57	A Combined Quantum and Molecular Mechanical Study of the O ₂ Reductive Cleavage in the Catalytic Cycle of Multicopper Oxidases. <i>Inorganic Chemistry</i> , 2005, 44, 5612-5628.	4.0	79
58	The Structures of Frataxin Oligomers Reveal the Mechanism for the Delivery and Detoxification of Iron. <i>Structure</i> , 2006, 14, 1535-1546.	3.3	78
59	Comparison of end-point continuum solvation methods for the calculation of protein-ligand binding free energies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1326-1342.	2.6	78
60	Molecular mechanism of lytic polysaccharide monooxygenases. <i>Chemical Science</i> , 2018, 9, 3866-3880.	7.4	77
61	Comparison of MM/GBSA calculations based on explicit and implicit solvent simulations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7731.	2.8	76
62	Conformational entropy changes upon lactose binding to the carbohydrate recognition domain of galectin-3. <i>Journal of Biomolecular NMR</i> , 2009, 45, 157-169.	2.8	75
63	Effect of Geometry Optimizations on QM-Cluster and QM/MM Studies of Reaction Energies in Proteins. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4205-4214.	5.3	75
64	QM/MM Calculations on Proteins. <i>Methods in Enzymology</i> , 2016, 577, 119-158.	1.0	75
65	Quantum Refinement of [FeFe] Hydrogenase Indicates a Dithiomethylamine Ligand. <i>Journal of the American Chemical Society</i> , 2010, 132, 4512-4513.	13.7	73
66	The influence of axial ligands on the reduction potential of blue copper proteins. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 654-663.	2.6	72
67	Review: Studies of ferric heme proteins with highly anisotropic/highly axial low spin ($S = 1/2$) electron paramagnetic resonance signals with bis-histidine and histidine-methionine axial iron coordination. <i>Biopolymers</i> , 2009, 91, 1064-1082.	2.4	72
68	Binding Affinities of Factor Xa Inhibitors Estimated by Thermodynamic Integration and MM/GBSA. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 947-958.	5.4	72
69	Comparison of the Efficiency of the LIE and MM/GBSA Methods to Calculate Ligand-Binding Energies. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3768-3778.	5.3	71
70	On the Difference Between Additive and Subtractive QM/MM Calculations. <i>Frontiers in Chemistry</i> , 2018, 6, 89.	3.6	71
71	Free-energy perturbation and quantum mechanical study of SAMPL4 octa-acid host-guest binding energies. <i>Journal of Computer-Aided Molecular Design</i> , 2014, 28, 375-400.	2.9	70
72	How Many Conformations Need To Be Sampled To Obtain Converged QM/MM Energies? The Curse of Exponential Averaging. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5745-5752.	5.3	70

#	ARTICLE	IF	CITATIONS
73	Theoretical study of the discrimination between O ₂ and CO by myoglobin. <i>Journal of Inorganic Biochemistry</i> , 2002, 91, 101-115.	3.5	69
74	The importance of porphyrin distortions for the ferrochelatase reaction. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 273-282.	2.6	68
75	How accurate are continuum solvation models for drug-like molecules?. <i>Journal of Computer-Aided Molecular Design</i> , 2009, 23, 395-409.	2.9	68
76	Convergence of QM/MM free-energy perturbations based on molecular-mechanics or semiempirical simulations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12592.	2.8	68
77	Protein Influence on Electronic Spectra Modeled by Multipoles and Polarizabilities. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 649-658.	5.3	67
78	Comparison of the Chemical Properties of Iron and Cobalt Porphyrins and Corrins. <i>ChemBioChem</i> , 2003, 4, 413-424.	2.6	66
79	The axial N-base has minor influence on Co-C bond cleavage in cobalamins. <i>Computational and Theoretical Chemistry</i> , 2002, 585, 239-255.	1.5	64
80	Protonation States of Homocitrate and Nearby Residues in Nitrogenase Studied by Computational Methods and Quantum Refinement. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8242-8262.	2.6	62
81	Cobalamins uncovered by modern electronic structure calculations. <i>Coordination Chemistry Reviews</i> , 2009, 253, 769-778.	18.8	61
82	An automatic method to generate force-field parameters for hetero-compounds. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 274-289.	2.5	60
83	The role of axial ligands for the structure and function of chlorophylls. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 12, 49-61.	2.6	59
84	A comparison of different initialization protocols to obtain statistically independent molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2011, 32, 187-195.	3.3	59
85	A theoretical study of the copper-cysteine bond in blue copper proteins. <i>Theoretical Chemistry Accounts</i> , 2001, 105, 452-462.	1.4	58
86	Accurate calculations of geometries and singlet-triplet energy differences for active-site models of [NiFe] hydrogenase. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7927-7938.	2.8	58
87	The Protonation Status of Compound II in Myoglobin, Studied by a Combination of Experimental Data and Quantum Chemical Calculations: Quantum Refinement. <i>Biophysical Journal</i> , 2004, 87, 3437-3447.	0.5	56
88	Accurate Predictions of Nonpolar Solvation Free Energies Require Explicit Consideration of Binding-Site Hydration. <i>Journal of the American Chemical Society</i> , 2011, 133, 13081-13092.	13.7	56
89	Extremely large differences in DFT energies for nitrogenase models. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2480-2488.	2.8	56
90	Reaction Mechanism of Porphyrin Metallation Studied by Theoretical Methods. <i>Chemistry - A European Journal</i> , 2005, 11, 1549-1564.	3.3	55

#	ARTICLE	IF	CITATIONS
91	Accurate metal-site structures in proteins obtained by combining experimental data and quantum chemistry. Dalton Transactions, 2007, , 607-625.	3.3	55
92	A Synthetic Analogue of Rieske-Type [2Fe-2S] Clusters. Angewandte Chemie - International Edition, 2008, 47, 9537-9541.	13.8	55
93	Prediction of Activation Energies for Aromatic Oxidation by Cytochrome P450. Journal of Physical Chemistry A, 2008, 112, 13058-13065.	2.5	55
94	QM/MM-PBSA Method To Estimate Free Energies for Reactions in Proteins. Journal of Physical Chemistry B, 2008, 112, 12537-12548.	2.6	55
95	Reorganization Energy for Internal Electron Transfer in Multicopper Oxidases. Journal of Physical Chemistry B, 2011, 115, 13111-13126.	2.6	55
96	General Transition-State Force Field for Cytochrome P450 Hydroxylation. Journal of Chemical Theory and Computation, 2007, 3, 1765-1773.	5.3	54
97	A Large-Scale Test of Free-Energy Simulation Estimates of Protein-Ligand Binding Affinities. Journal of Chemical Information and Modeling, 2014, 54, 2794-2806.	5.4	54
98	Quantum refinement—a combination of quantum chemistry and protein crystallography. Computational and Theoretical Chemistry, 2003, 632, 259-275.	1.5	52
99	Combined computational and crystallographic study of the oxidised states of [NiFe] hydrogenase. Computational and Theoretical Chemistry, 2006, 770, 199-219.	1.5	52
100	Theoretical studies of the active-site structure, spectroscopic and thermodynamic properties, and reaction mechanism of multicopper oxidases. Coordination Chemistry Reviews, 2013, 257, 445-458.	18.8	52
101	Targeting the reactive intermediate in polysaccharide monooxygenases. Journal of Biological Inorganic Chemistry, 2017, 22, 1029-1037.	2.6	52
102	Protonation and Reduction of the FeMo Cluster in Nitrogenase Studied by Quantum Mechanics/Molecular Mechanics (QM/MM) Calculations. Journal of Chemical Theory and Computation, 2018, 14, 6653-6678.	5.3	52
103	Calculation of Protein-Ligand Interaction Energies by a Fragmentation Approach Combining High-Level Quantum Chemistry with Classical Many-Body Effects. Journal of Physical Chemistry B, 2009, 113, 11085-11094.	2.6	51
104	Targeting Intermediates of [FeFe]-Hydrogenase by CO and CN Vibrational Signatures. Inorganic Chemistry, 2011, 50, 3888-3900.	4.0	51
105	Conversion of Homocysteine to Methionine by Methionine Synthase: A Density Functional Study. Journal of the American Chemical Society, 2003, 125, 13970-13971.	13.7	50
106	The crystal structure of peroxymyoglobin generated through cryoradiolytic reduction of myoglobin compound III during data collection. Biochemical Journal, 2008, 412, 257-264.	3.7	50
107	On the Possibility of Uphill Intramolecular Electron Transfer in Multicopper Oxidases: Electrochemical and Quantum Chemical Study of Bilirubin Oxidase. Electroanalysis, 2012, 24, 1524-1540.	2.9	49
108	The coordination chemistry of the structural zinc ion in alcohol dehydrogenase studied by ab initio quantum chemical calculations. European Biophysics Journal, 1996, 24, 213.	2.2	48

#	ARTICLE	IF	CITATIONS
109	Metal binding to <i>Bacillus subtilis</i> ferrochelatase and interaction between metal sites. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 452-458.	2.6	48
110	Protonation status of metal-bound ligands can be determined by quantum refinement. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1539-1546.	3.5	47
111	Reaction Mechanism of Manganese Superoxide Dismutase Studied by Combined Quantum and Molecular Mechanical Calculations and Multiconfigurational Methods. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6074-6086.	2.6	47
112	Binding affinities in the SAMPL3 trypsin and host-guest blind tests estimated with the MM/PBSA and LIE methods. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 527-541.	2.9	46
113	Converging ligand-binding free energies obtained with free energy perturbations at the quantum mechanical level. <i>Journal of Computational Chemistry</i> , 2016, 37, 1589-1600.	3.3	46
114	Comparison of QM/MM Methods To Obtain Ligand-Binding Free Energies. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2245-2253.	5.3	45
115	Mechanism of hydrogen peroxide formation by lytic polysaccharide monoxygenase. <i>Chemical Science</i> , 2019, 10, 576-586.	7.4	45
116	Structural Insights into the Active-Ready Form of [FeFe]-Hydrogenase and Mechanistic Details of Its Inhibition by Carbon Monoxide. <i>Inorganic Chemistry</i> , 2007, 46, 7256-7258.	4.0	44
117	Structure of Reduced and Oxidized Manganese Superoxide Dismutase: A Combined Computational and Experimental Approach. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11511-11518.	2.6	43
118	Dynamics of Water Molecules in the Active-Site Cavity of Human Cytochromes P450. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5445-5457.	2.6	43
119	Protein strain in blue copper proteins studied by free energy perturbations. , 1999, 36, 157-174.		42
120	Multireference Ab Initio Calculations on Reaction Intermediates of the Multicopper Oxidases. <i>Inorganic Chemistry</i> , 2006, 45, 11051-11059.	4.0	42
121	The reaction mechanism of iron and manganese superoxide dismutases studied by theoretical calculations. <i>Journal of Computational Chemistry</i> , 2006, 27, 1398-1414.	3.3	42
122	Multireference Ab Initio Calculations of $\langle b \rangle g \langle /b \rangle$ tensors for Trinuclear Copper Clusters in Multicopper Oxidases. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7692-7702.	2.6	42
123	Large Density-Functional and Basis-Set Effects for the DMSO Reductase Catalyzed Oxo-Transfer Reaction. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1799-1807.	5.3	42
124	Influence of the protein and DFT method on the broken symmetry and spin states in nitrogenase. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25627.	2.0	42
125	Proton Transfer at Metal Sites in Proteins Studied by Quantum Mechanical Free-Energy Perturbations. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 985-1001.	5.3	40
126	Binding-affinity predictions of HSP90 in the D3R Grand Challenge 2015 with docking, MM/GBSA, QM/MM, and free-energy simulations. <i>Journal of Computer-Aided Molecular Design</i> , 2016, 30, 707-730.	2.9	40

#	ARTICLE	IF	CITATIONS
127	Protonation states of intermediates in the reaction mechanism of [NiFe] hydrogenase studied by computational methods. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 383-394.	2.6	40
128	Structural and Photoluminescence Properties of Excited State Intramolecular Proton Transfer Capable Compounds Potential Emissive and Electron Transport Materials. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7935-7942.	2.5	39
129	Fast generation of broken symmetry states in a large system including multiple iron-sulfur assemblies: Investigation of QM/MM energies, clusters charges, and spin populations. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 3949-3960.	2.0	39
130	Unraveling the similarity of the photoabsorption of deprotonated p-coumaric acid in the gas phase and within the photoactive yellow protein. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1585-1589.	2.8	39
131	Identification of the Peroxy Adduct in Multicopper Oxidases by a Combination of Computational Chemistry and Extended X-ray Absorption Fine-Structure Measurements. <i>Journal of the American Chemical Society</i> , 2007, 129, 726-727.	13.7	38
132	Starting-Condition Dependence of Order Parameters Derived from Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2176-2190.	5.3	38
133	Mechanistic and Physiological Implications of the Interplay among Iron-Sulfur Clusters in [FeFe]-Hydrogenases. A QM/MM Perspective. <i>Journal of the American Chemical Society</i> , 2011, 133, 18742-18749.	13.7	38
134	Reduction Potentials and Acidity Constants of Mn Superoxide Dismutase Calculated by QM/MM Free-Energy Methods. <i>ChemPhysChem</i> , 2011, 12, 3337-3347.	2.1	38
135	Binding affinities by alchemical perturbation using QM/MM with a large QM system and polarizable MM model. <i>Journal of Computational Chemistry</i> , 2015, 36, 2114-2124.	3.3	38
136	H ₂ binding to the active site of [NiFe] hydrogenase studied by multiconfigurational and coupled-cluster methods. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10590-10601.	2.8	38
137	Theoretical Study of the Structural and Spectroscopic Properties of Stellacyanin. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4638-4647.	2.6	37
138	The structure of sitting-atop complexes of metalloporphyrins studied by theoretical methods. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 878-895.	3.5	37
139	What Is the Structure of the E ₄ Intermediate in Nitrogenase?. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1936-1952.	5.3	37
140	A QM/MM study of the binding of RAPTA ligands to cathepsin B. <i>Journal of Computer-Aided Molecular Design</i> , 2011, 25, 729-742.	2.9	36
141	Large Equatorial Ligand Effects on C-H Bond Activation by Nonheme Iron(IV)-oxo Complexes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1493-1500.	2.6	35
142	Effect of explicit water molecules on ligand-binding affinities calculated with the MM/GBSA approach. <i>Journal of Molecular Modeling</i> , 2014, 20, 2273.	1.8	35
143	Functionally Relevant Interplay between the Fe ₄ S ₄ Cluster and CN ³⁻ Ligands in the Active Site of [FeFe]-Hydrogenases. <i>Journal of the American Chemical Society</i> , 2010, 132, 4992-4993.	13.7	34
144	Reaction mechanism of formate dehydrogenase studied by computational methods. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1243-1254.	2.6	34

#	ARTICLE	IF	CITATIONS
145	Comparison of overlap-based models for approximating the exchange-repulsion energy. <i>Journal of Chemical Physics</i> , 2006, 124, 244101.	3.0	33
146	Simulation of the isotropic EXAFS spectra for the S ₂ and S ₃ structures of the oxygen evolving complex in photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3979-3984.	7.1	32
147	Conformational Entropies and Order Parameters: Convergence, Reproducibility, and Transferability. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 432-438.	5.3	31
148	The coordination chemistry of the catalytic zinc ion in alcohol dehydrogenase studied by ab initio quantum chemical calculations. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 1229-1243.	2.0	30
149	Ab Initio Calculations of Electric Field Gradients in Cadmium Complexes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4803-4809.	2.9	30
150	Can the protonation state of histidine residues be determined from molecular dynamics simulations?. <i>Computational and Theoretical Chemistry</i> , 2012, 1000, 75-84.	2.5	30
151	Lactam Hydrolysis Catalyzed by Mononuclear Metallo- β -lactamases: A Density Functional Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2366-2375.	2.6	29
152	Importance of proximal hydrogen bonds in haem proteins. <i>Molecular Physics</i> , 2003, 101, 2003-2018.	1.7	29
153	Interpretation of EXAFS spectra for sitting-atop complexes with the help of computational methods. <i>Inorganica Chimica Acta</i> , 2006, 359, 1081-1092.	2.4	29
154	Protonation of the Proximal Histidine Ligand in Heme Peroxidases. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2501-2510.	2.6	29
155	Multiscale Modelling of Lytic Polysaccharide Monooxygenases. <i>ACS Omega</i> , 2017, 2, 536-545.	3.5	29
156	A semiempirical approach to ligand-binding affinities: Dependence on the Hamiltonian and corrections. <i>Journal of Computational Chemistry</i> , 2012, 33, 1179-1189.	3.3	28
157	Geometric and Electronic Structure of Co(II)-Substituted Azurin. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8375-8382.	2.6	27
158	Erratum to "O ₂ -binding to heme: electronic structure and spectrum of oxyheme, studied by multiconfigurational methods" [J. Inorg. Biochem. 99(1) (2004) 45-54]. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 978.	3.5	27
159	The Neutron Structure of Urate Oxidase Resolves a Long-Standing Mechanistic Conundrum and Reveals Unexpected Changes in Protonation. <i>PLoS ONE</i> , 2014, 9, e86651.	2.5	27
160	Transition-State Docking of Flunitrazepam and Progesterone in Cytochrome P450. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 673-681.	5.3	26
161	Nonpolar Solvation Free Energies of Protein-Ligand Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3558-3568.	5.3	26
162	Theoretical EXAFS studies of a model of the oxygen-evolving complex of photosystem II obtained with the quantum cluster approach. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 474-478.	2.0	26

#	ARTICLE	IF	CITATIONS
163	The structure and function of blue copper proteins. <i>Theoretical and Computational Chemistry</i> , 2001, 9, 1-55.	0.4	24
164	Theoretical study of structure of catalytic copper site in nitrite reductase. <i>International Journal of Quantum Chemistry</i> , 2005, 102, 520-541.	2.0	24
165	EXAFS structure refinement supplemented by computational chemistry. <i>Physical Review B</i> , 2006, 74, .	3.2	24
166	Prediction and Rationalization of the pH Dependence of the Activity and Stability of Family 11 Xylanases. <i>Biochemistry</i> , 2007, 46, 13581-13592.	2.5	24
167	Secondary Bonding Interactions in Biomimetic [2Fe ²⁺ S] Clusters. <i>Inorganic Chemistry</i> , 2008, 47, 1586-1596.	4.0	24
168	Catalytic Cycle of Multicopper Oxidases Studied by Combined Quantum- and Molecular-Mechanical Free-Energy Perturbation Methods. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8268-8284.	2.6	24
169	Structure and Energetics of Ligand-Fluorine Interactions with Galectin-3 Backbone and Side-Chain Amides: Insight into Solvation Effects and Multipolar Interactions. <i>ChemMedChem</i> , 2019, 14, 1528-1536.	3.2	24
170	Critical evaluation of a crystal structure of nitrogenase with bound N ₂ ligands. <i>Journal of Biological Inorganic Chemistry</i> , 2021, 26, 341-353.	2.6	24
171	On the Use of Interaction Entropy and Related Methods to Estimate Binding Entropies. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5379-5391.	5.3	24
172	Conformational dependence of charges in protein simulations. <i>Journal of Computational Chemistry</i> , 2009, 30, 750-760.	3.3	23
173	Which functional groups of the molybdopterin ligand should be considered when modeling the active sites of the molybdenum and tungsten cofactors? A density functional theory study. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1053-1064.	2.6	23
174	A quantum-mechanical study of the reaction mechanism of sulfite oxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1165-1179.	2.6	23
175	A Computational Comparison of Oxygen Atom Transfer Catalyzed by Dimethyl Sulfide Reductase with Mo and W. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3580-3589.	2.0	23
176	Relative Ligand-Binding Free Energies Calculated from Multiple Short QM/MM MD Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3228-3237.	5.3	23
177	Accuracy of typical approximations in classical models of intermolecular polarization. <i>Journal of Chemical Physics</i> , 2008, 128, 014102.	3.0	22
178	Reductive cleavage of the C-O bond in multicopper oxidases: a QM/MM and QM study. <i>Faraday Discussions</i> , 2011, 148, 41-53.	3.2	22
179	Multiscale Modeling of the Active Site of [Fe] Hydrogenase: The H ₂ Binding Site in Open and Closed Protein Conformations. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6246-6250.	13.8	22
180	QM/MM study of the reaction mechanism of sulfite oxidase. <i>Scientific Reports</i> , 2018, 8, 4684.	3.3	22

#	ARTICLE	IF	CITATIONS
181	NMR structure determination of proteins supplemented by quantum chemical calculations: Detailed structure of the Ca ²⁺ sites in the EGF34 fragment of protein S. <i>Journal of Biomolecular NMR</i> , 2005, 31, 97-114.	2.8	21
182	Estimates of ligand-binding affinities supported by quantum mechanical methods. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010, 2, 21-37.	3.6	21
183	Magnetic Properties of [FeFe]-Hydrogenases: A Theoretical Investigation Based on Extended QM and QM/MM Models of the H ₂ -Cluster and Its Surroundings. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1043-1049.	2.0	21
184	Amino Acid Oxidation of <i>Candida antarctica</i> Lipase B Studied by Molecular Dynamics Simulations and Site-Directed Mutagenesis. <i>Biochemistry</i> , 2013, 52, 1280-1289.	2.5	21
185	Theoretical ⁵⁷ Fe Mössbauer spectroscopy: isomer shifts of [Fe]-hydrogenase intermediates. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4853-4863.	2.8	21
186	Binding free energies in the SAMPL5 octa-acid host-guest challenge calculated with DFT-D3 and CCSD(T). <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 87-106.	2.9	21
187	Comparison of chemical properties of iron, cobalt, and nickel porphyrins, corrins, and hydrocorphins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2005, 09, 581-606.	0.8	20
188	Geometry and Electronic Structure of the P-Cluster in Nitrogenase Studied by Combined Quantum Mechanical and Molecular Mechanical Calculations and Quantum Refinement. <i>Inorganic Chemistry</i> , 2019, 58, 9672-9690.	4.0	20
189	Reaction Mechanism of [NiFe] Hydrogenase Studied by Computational Methods. <i>Inorganic Chemistry</i> , 2018, 57, 15289-15298.	4.0	19
190	Host-Guest Relative Binding Affinities at Density-Functional Theory Level from Semiempirical Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2659-2671.	5.3	19
191	Putative reaction mechanism of nitrogenase after dissociation of a sulfide ligand. <i>Journal of Catalysis</i> , 2020, 391, 247-259.	6.2	19
192	Implicit versus explicit solvent in free energy calculations of enzyme catalysis: Methyl transfer catalyzed by catechol O-methyltransferase. <i>Journal of Chemical Physics</i> , 2006, 124, 174503.	3.0	18
193	Improving the Efficiency of Protein-Ligand Binding Free-Energy Calculations by System Truncation. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1449-1458.	5.3	18
194	Coupled-Cluster Interaction Energies for 200-Atom Host-Guest Systems. <i>ChemPhysChem</i> , 2014, 15, 3270-3281.	2.1	18
195	Quantum Refinement Does Not Support Dinuclear Copper Sites in Crystal Structures of Particulate Methane Monooxygenase. <i>Angewandte Chemie</i> , 2018, 130, 168-172.	2.0	18
196	Is density functional theory accurate for lytic polysaccharide monooxygenase enzymes?. <i>Dalton Transactions</i> , 2020, 49, 1501-1512.	3.3	18
197	Does the crystal structure of vanadium nitrogenase contain a reaction intermediate? Evidence from quantum refinement. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 847-861.	2.6	18
198	QM/MM study of the insertion of metal ion into protoporphyrin IX by ferrochelatase. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1680-1686.	3.5	17

#	ARTICLE	IF	CITATIONS
199	Comparison of the Active-Site Design of Molybdenum Oxo-Transfer Enzymes by Quantum Mechanical Calculations. <i>Inorganic Chemistry</i> , 2014, 53, 11913-11924.	4.0	17
200	Exploration of H ₂ binding to the [NiFe]-hydrogenase active site with multiconfigurational density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 794-801.	2.8	17
201	Entropyâ€“Entropy Compensation between the Protein, Ligand, and Solvent Degrees of Freedom Fine-Tunes Affinity in Ligand Binding to Galectin-3C. <i>Jacs Au</i> , 2021, 1, 484-500.	7.9	17
202	A comparative reactivity study of microperoxidases based on hemin, mesohemin and deuterohemin. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 852-863.	3.5	16
203	The Influence of Xâ€“rays on the Structural Studies of Peroxideâ€“Derived Myoglobin Intermediates. <i>Chemistry and Biodiversity</i> , 2008, 5, 2067-2089.	2.1	16
204	A Five-Coordinate [2Feâ€“2S] Cluster. <i>Inorganic Chemistry</i> , 2010, 49, 5853-5858.	4.0	16
205	Isocyanide in Biochemistry? A Theoretical Investigation of the Electronic Effects and Energetics of Cyanide Ligand Protonation in [FeFe]-Hydrogenases. <i>Chemistry - A European Journal</i> , 2011, 17, 1954-1965.	3.3	16
206	Are crystallographic <i>B</i> -factors suitable for calculating protein conformational entropy?. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18149-18160.	2.8	16
207	N ₂ H ₂ binding to the nitrogenase FeMo cluster studied by QM/MM methods. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 521-540.	2.6	16
208	Assessing the stability of free-energy perturbation calculations by performing variations in the method. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 529-536.	2.9	15
209	Binding free energies in the SAMPL6 octa-acid hostâ€“guest challenge calculated with MM and QM methods. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 1027-1046.	2.9	15
210	A DFT investigation on structural and redox properties of a synthetic Fe ₆ S ₆ assembly closely related to the [FeFe]-hydrogenases active site. <i>Comptes Rendus Chimie</i> , 2008, 11, 834-841.	0.5	14
211	Does the DFT Self-Interaction Error Affect Energies Calculated in Proteins with Large QM Systems?. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5667-5679.	5.3	14
212	O ₂ Activation in Salicylate 1,2-Dioxygenase: A QM/MM Study Reveals the Role of His162. <i>Inorganic Chemistry</i> , 2016, 55, 11727-11735.	4.0	14
213	Substituted polyfluoroaryl interactions with an arginine side chain in galectin-3 are governed by steric-, desolvation and electronic conjugation effects. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1081-1089.	2.8	14
214	Why does sulfite reductase employ siroheme?. <i>Chemical Communications</i> , 2019, 55, 14047-14049.	4.1	14
215	Conformational Dependence of Isotropic Polarizabilities. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1404-1414.	5.3	13
216	Predicting Relative Binding Affinity Using Nonequilibrium QM/MM Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6613-6622.	5.3	13

#	ARTICLE	IF	CITATIONS
217	Refinement of protein structures using a combination of quantum-mechanical calculations with neutron and X-ray crystallographic data. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 368-380.	2.3	13
218	Insight into the reaction mechanism of lipoyl synthase: a QM/MM study. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 221-229.	2.6	12
219	Thermodynamically Favourable States in the Reaction of Nitrogenase without Dissociation of any Sulfide Ligand. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	12
220	Restrained point-charge models for disaccharides. <i>Journal of Computational Chemistry</i> , 2002, 23, 351-364.	3.3	11
221	A thiocarbonate sink on the enzymatic energy landscape of aerobic CO oxidation? Answers from DFT and QM/MM models of Mo Cu CO-dehydrogenases. <i>Journal of Catalysis</i> , 2019, 372, 201-205.	6.2	11
222	Water structure in solution and crystal molecular dynamics simulations compared to protein crystal structures. <i>RSC Advances</i> , 2020, 10, 8435-8443.	3.6	11
223	QM/MM Study of the Catalytic Reaction of Myrosinase; Importance of Assigning Proper Protonation States of Active-Site Residues. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1822-1841.	5.3	11
224	A combined computational and experimental investigation of the [2Fe ²⁺ 2S] cluster in biotin synthase. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 203-212.	2.6	10
225	Probing the Effects of One ⁺ Electron Reduction and Protonation on the Electronic Properties of the Fe ²⁺ S Clusters in the Active ⁺ Ready Form of [FeFe] ⁺ Hydrogenases. A QM/MM Investigation.. <i>ChemPhysChem</i> , 2011, 12, 3376-3382.	2.1	10
226	Transferability of conformational dependent charges from protein simulations. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1768-1785.	2.0	10
227	Higher Flexibility of Glu-172 Explains the Unusual Stereospecificity of Glyoxalase I. <i>Inorganic Chemistry</i> , 2018, 57, 4944-4958.	4.0	10
228	Binding affinities of the farnesoid X receptor in the D3R Grand Challenge 2 estimated by free-energy perturbation and docking. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 211-224.	2.9	10
229	fragHAR: towards <i>ab initio</i> quantum-crystallographic X-ray structure refinement for polypeptides and proteins. <i>IUCr</i> , 2020, 7, 158-165.	2.2	10
230	Arguments for a narrow species concept in <i>Rubus</i> sect. <i>Corylifolii</i> . <i>Nordic Journal of Botany</i> , 2011, 29, 708-721.	0.5	9
231	Catalytic mechanism of human glyoxalase I studied by quantum-mechanical cluster calculations. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 131, 18-30.	1.8	9
232	QM/MM Study of the Conversion of Oxophlorin into Verdoheme by Heme Oxygenase. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11427-11436.	2.6	9
233	A novel mechanism of heme degradation to biliverdin studied by QM/MM and QM calculations. <i>Dalton Transactions</i> , 2018, 47, 8283-8291.	3.3	9
234	Comparison of the accuracy of DFT methods for reactions with relevance to nitrogenase. <i>Electronic Structure</i> , 2021, 3, 034005.	2.8	9

#	ARTICLE	IF	CITATIONS
235	Unraveling the Reaction Mechanism of Mo/Cu CO Dehydrogenase Using QM/MM Calculations. ACS Catalysis, 2022, 12, 7336-7343.	11.2	9
236	Nuclear Quadrupole Interactions in Cadmium Complexes: Semiempirical and ab initio Calculations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1999, 54, 422-430.	1.5	8
237	Effect of covalent links on the structure, spectra, and redox properties of myeloperoxidase – A density functional study. Journal of Inorganic Biochemistry, 2008, 102, 1549-1557.	3.5	8
238	Understanding the Chemistry of Lead at a Molecular Level: The Pb(II) 6s6p Lone Pair Can Be Bisdirected in Proteins. Journal of Chemical Theory and Computation, 2013, 9, 2416-2424.	5.3	8
239	How are hydrogen bonds modified by metal binding?. Journal of Biological Inorganic Chemistry, 2013, 18, 499-522.	2.6	8
240	Combining crystallography with quantum mechanics. Current Opinion in Structural Biology, 2022, 72, 18-26.	5.7	8
241	Benchmark Study of Redox Potential Calculations for Iron–Sulfur Clusters in Proteins. Inorganic Chemistry, 2022, 61, 5991-6007.	4.0	8
242	Effect of the protein ligand in DMSO reductase studied by computational methods. Journal of Inorganic Biochemistry, 2017, 171, 45-51.	3.5	7
243	Quantum-refinement studies of the bidentate ligand of V–nitrogenase and the protonation state of CO-inhibited Mo–nitrogenase. Journal of Inorganic Biochemistry, 2021, 219, 111426.	3.5	7
244	Can MM/GBSA calculations be sped up by system truncation?. Journal of Computational Chemistry, 2018, 39, 361-372.	3.3	6
245	QM/MM study of the stereospecific proton exchange of glutathiohydroxyacetone by glyoxalase I. Results in Chemistry, 2019, 1, 100011.	2.0	6
246	Quantum Mechanics/Molecular Mechanics Study of the Reaction Mechanism of Glyoxalase I. Inorganic Chemistry, 2020, 59, 2594-2603.	4.0	6
247	Neutron structures of <i>Leishmania mexicana</i> triosephosphate isomerase in complex with reaction-intermediate mimics shed light on the proton-shuttling steps. IUCr, 2021, 8, 633-643.	2.2	6
248	Quantum refinement with multiple conformations: application to the P-cluster in nitrogenase. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1145-1156.	2.3	6
249	Theoretical Insights into the Aerobic Hydrogenase Activity of Molybdenum–Copper CO Dehydrogenase. Inorganics, 2019, 7, 135.	2.7	5
250	Structure, strain, and reorganization energy of blue copper models in the protein. International Journal of Quantum Chemistry, 2001, 81, 335-347.	2.0	5
251	Can Water Act as a Nucleophile in CO Oxidation Catalysed by Mo/Cu CO–Dehydrogenase? Answers from Theory. ChemPhysChem, 2022, 23, .	2.1	5
252	Importance of the iron–sulfur component and of the siroheme modification in the resting state of sulfite reductase. Journal of Inorganic Biochemistry, 2020, 203, 110928.	3.5	4

#	ARTICLE	IF	CITATIONS
253	QM/MM study of the binding of H ₂ to MoCu CO dehydrogenase: development and applications of improved H ₂ van der Waals parameters. <i>Journal of Molecular Modeling</i> , 2021, 27, 68.	1.8	4
254	Comparison of Grand Canonical and Conventional Molecular Dynamics Simulation Methods for Protein-Bound Water Networks. <i>ACS Physical Chemistry Au</i> , 2022, 2, 247-259.	4.0	4
255	Two-Substrate Glyoxalase I Mechanism: A Quantum Mechanics/Molecular Mechanics Study. <i>Inorganic Chemistry</i> , 2021, 60, 303-314.	4.0	3
256	Exploring ligand dynamics in protein crystal structures with ensemble refinement. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021, 77, 1099-1115.	2.3	3
257	Hybrids between <i>Rubus idaeus</i> and <i>Rubus sect. Corylifolii</i> and their relation to <i>R. prinosus</i> and <i>R. rosanthus</i> . <i>Nordic Journal of Botany</i> , 2021, 39, .	0.5	3
258	Comparison of methods for deriving atomic charges from the electrostatic potential and moments. , 1998, 19, 377.		3
259	Automated orientation of water molecules in neutron crystallographic structures of proteins. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 1025-1032.	2.3	3
260	QM/MM study of the conversion of biliverdin into verdoheme by heme oxygenase. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	2
261	Genetic analysis shows that <i>Rubus vikensis</i> a distinct species with a disjunct distribution. <i>Nordic Journal of Botany</i> , 2010, 28, 246-250.	0.5	1
262	Frontispiece: Quantum Crystallography: Current Developments and Future Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	1
263	Comparison of methods for deriving atomic charges from the electrostatic potential and moments. , 1998, 19, 377.		1
264	Comparison of methods for deriving atomic charges from the electrostatic potential and moments. <i>Journal of Computational Chemistry</i> , 1998, 19, 377.	3.3	1
265	Protein strain in blue copper proteins studied by free energy perturbations. , 1999, 36, 157.		1
266	Structure, strain, and reorganization energy of blue copper models in the protein. , 0, .		1
267	Computationally enhanced X-ray diffraction analysis of a gold(III) complex interacting with the human telomeric DNA G-quadruplex. Unravelling non-unique ligand positioning. <i>International Journal of Biological Macromolecules</i> , 2022, 211, 506-513.	7.5	1
268	Can System Truncation Speed up Ligand-Binding Calculations with Periodic Free-Energy Simulations?. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 2865-2873.	5.4	0
269	Can the results of quantum refinement be improved with a continuum-solvation model?. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 906-918.	1.1	0
270	A Comparison of Tetrapyrrole Cofactors in Nature and their Tuning by Axial Ligands. , 0, , 27-56.		0