

Ulf Ryde

List of Publications by Year in descending order

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270
papers

18,359
citations

15001

68
h-index

19470

122
g-index

282
all docs

282
docs citations

282
times ranked

16842
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining crystallography with quantum mechanics. <i>Current Opinion in Structural Biology</i> , 2022, 72, 18-26.	2.6	8
2	Thermodynamically Favourable States in the Reaction of Nitrogenase without Dissociation of any Sulfide Ligand. <i>Chemistry - A European Journal</i> , 2022, , .	1.7	12
3	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.	1.9	4
4	Can Water Act as a Nucleophile in CO Oxidation Catalysed by Mo/Cu COâ€Dehydrogenase? Answers from Theory. <i>ChemPhysChem</i> , 2022, 23, .	1.0	5
5	Benchmark Study of Redox Potential Calculations for Ironâ€Sulfur Clusters in Proteins. <i>Inorganic Chemistry</i> , 2022, 61, 5991-6007.	1.9	8
6	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.	3.6	1
7	Unraveling the Reaction Mechanism of Mo/Cu CO Dehydrogenase Using QM/MM Calculations. <i>ACS Catalysis</i> , 2022, 12, 7336-7343.	5.5	9
8	Two-Substrate Glyoxalase I Mechanism: A Quantum Mechanics/Molecular Mechanics Study. <i>Inorganic Chemistry</i> , 2021, 60, 303-314.	1.9	3
9	QM/MM study of the binding of H2 to MoCu CO dehydrogenase: development and applications of improved H2 van der Waals parameters. <i>Journal of Molecular Modeling</i> , 2021, 27, 68.	0.8	4
10	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.	2.3	11
11	Critical evaluation of a crystal structure of nitrogenase with bound N2 ligands. <i>Journal of Biological Inorganic Chemistry</i> , 2021, 26, 341-353.	1.1	24
12	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.	3.6	17
13	Neutron structures of <i>Leishmania mexicana</i> triosephosphate isomerase in complex with reaction-intermediate mimics shed light on the proton-shuttling steps. <i>IUCrJ</i> , 2021, 8, 633-643.	1.0	6
14	Quantum-refinement studies of the bidentate ligand of Vâ€nitrogenase and the protonation state of CO-inhibited Moâ€nitrogenase. <i>Journal of Inorganic Biochemistry</i> , 2021, 219, 111426.	1.5	7
15	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.	2.3	24
16	Exploring ligand dynamics in protein crystal structures with ensemble refinement. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021, 77, 1099-1115.	1.1	3
17	Hybrids between <i>Rubus idaeus</i> and <i>Rubus sect. Corylifolii</i> and their relation to <i>R. pruinosus</i> and <i>R. rosanthus</i> . <i>Nordic Journal of Botany</i> , 2021, 39, .	0.2	3
18	Comparison of the accuracy of DFT methods for reactions with relevance to nitrogenase. <i>Electronic Structure</i> , 2021, 3, 034005.	1.0	9

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19	Can the results of quantum refinement be improved with a continuum-solvation model?. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 906-918.	0.5	0
20	Is density functional theory accurate for lytic polysaccharide monooxygenase enzymes?. Dalton Transactions, 2020, 49, 1501-1512.	1.6	18
21	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.	1.5	4
22	Putative reaction mechanism of nitrogenase after dissociation of a sulfide ligand. Journal of Catalysis, 2020, 391, 247-259.	3.1	19
23	Does the crystal structure of vanadium nitrogenase contain a reaction intermediate? Evidence from quantum refinement. Journal of Biological Inorganic Chemistry, 2020, 25, 847-861.	1.1	18
24	What Is the Structure of the E ₄ Intermediate in Nitrogenase?. Journal of Chemical Theory and Computation, 2020, 16, 1936-1952.	2.3	37
25	Quantum Mechanics/Molecular Mechanics Study of the Reaction Mechanism of Glyoxalase I. Inorganic Chemistry, 2020, 59, 2594-2603.	1.9	6
26	Water structure in solution and crystal molecular dynamics simulations compared to protein crystal structures. RSC Advances, 2020, 10, 8435-8443.	1.7	11
27	N ₂ H ₂ binding to the nitrogenase FeMo cluster studied by QM/MM methods. Journal of Biological Inorganic Chemistry, 2020, 25, 521-540.	1.1	16
28	fragHAR: towards ab initio quantum-crystallographic X-ray structure refinement for polypeptides and proteins. IUCr, 2020, 7, 158-165.	1.0	10
29	Quantum refinement with multiple conformations: application to the P-cluster in nitrogenase. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1145-1156.	1.1	6
30	Automated orientation of water molecules in neutron crystallographic structures of proteins. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1025-1032.	1.1	3
31	Are crystallographic B-factors suitable for calculating protein conformational entropy?. Physical Chemistry Chemical Physics, 2019, 21, 18149-18160.	1.3	16
32	Geometry and Electronic Structure of the P-Cluster in Nitrogenase Studied by Combined Quantum Mechanical and Molecular Mechanical Calculations and Quantum Refinement. Inorganic Chemistry, 2019, 58, 9672-9690.	1.9	20
33	Structure and Energetics of Ligand-Fluorine Interactions with Galectin-3 Backbone and Side-Chain Amides: Insight into Solvation Effects and Multipolar Interactions. ChemMedChem, 2019, 14, 1528-1536.	1.6	24
34	Substituted polyfluoroaryl interactions with an arginine side chain in galectin-3 are governed by steric-, desolvation and electronic conjugation effects. Organic and Biomolecular Chemistry, 2019, 17, 1081-1089.	1.5	14
35	Mechanism of hydrogen peroxide formation by lytic polysaccharide monooxygenase. Chemical Science, 2019, 10, 576-586.	3.7	45
36	Extremely large differences in DFT energies for nitrogenase models. Physical Chemistry Chemical Physics, 2019, 21, 2480-2488.	1.3	56

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37	QM/MM study of the conversion of biliverdin into verdoheme by heme oxygenase. Theoretical Chemistry Accounts, 2019, 138, 1.	0.5	2
38	A thiocarbonate sink on the enzymatic energy landscape of aerobic CO oxidation? Answers from DFT and QM/MM models of Mo Cu CO-dehydrogenases. Journal of Catalysis, 2019, 372, 201-205.	3.1	11
39	Host-Guest Relative Binding Affinities at Density-Functional Theory Level from Semiempirical Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2019, 15, 2659-2671.	2.3	19
40	Why does sulfite reductase employ siroheme?. Chemical Communications, 2019, 55, 14047-14049.	2.2	14
41	QM/MM study of the stereospecific proton exchange of glutathiohydroxyacetone by glyoxalase I. Results in Chemistry, 2019, 1, 100011.	0.9	6
42	Theoretical Insights into the Aerobic Hydrogenase Activity of Molybdenum-Copper CO Dehydrogenase. Inorganics, 2019, 7, 135.	1.2	5
43	Interplay between Conformational Entropy and Solvation Entropy in Protein-Ligand Binding. Journal of the American Chemical Society, 2019, 141, 2012-2026.	6.6	89
44	Refinement of protein structures using a combination of quantum-mechanical calculations with neutron and X-ray crystallographic data. Acta Crystallographica Section D: Structural Biology, 2019, 75, 368-380.	1.1	13
45	Quantum Crystallography: Current Developments and Future Perspectives. Chemistry - A European Journal, 2018, 24, 10881-10905.	1.7	108
46	Can MM/GBSA calculations be sped up by system truncation?. Journal of Computational Chemistry, 2018, 39, 361-372.	1.5	6
47	Molecular mechanism of lytic polysaccharide monooxygenases. Chemical Science, 2018, 9, 3866-3880.	3.7	77
48	Assessing the stability of free-energy perturbation calculations by performing variations in the method. Journal of Computer-Aided Molecular Design, 2018, 32, 529-536.	1.3	15
49	Higher Flexibility of Glu-172 Explains the Unusual Stereospecificity of Glyoxalase I. Inorganic Chemistry, 2018, 57, 4944-4958.	1.9	10
50	Quantum Refinement Does Not Support Dinuclear Copper Sites in Crystal Structures of Particulate Methane Monooxygenase. Angewandte Chemie, 2018, 130, 168-172.	1.6	18
51	Influence of the protein and DFT method on the broken-symmetry and spin states in nitrogenase. International Journal of Quantum Chemistry, 2018, 118, e25627.	1.0	42
52	QM/MM study of the reaction mechanism of sulfite oxidase. Scientific Reports, 2018, 8, 4684.	1.6	22
53	Binding affinities of the farnesoid X receptor in the D3R Grand Challenge 2 estimated by free-energy perturbation and docking. Journal of Computer-Aided Molecular Design, 2018, 32, 211-224.	1.3	10
54	Exploration of H ₂ binding to the [NiFe]-hydrogenase active site with multiconfigurational density functional theory. Physical Chemistry Chemical Physics, 2018, 20, 794-801.	1.3	17

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55	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.	7.2	122
56	Reaction Mechanism of [NiFe] Hydrogenase Studied by Computational Methods. <i>Inorganic Chemistry</i> , 2018, 57, 15289-15298.	1.9	19
57	Predicting Relative Binding Affinity Using Nonequilibrium QM/MM Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6613-6622.	2.3	13
58	Protonation and Reduction of the FeMo Cluster in Nitrogenase Studied by Quantum Mechanics/Molecular Mechanics (QM/MM) Calculations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6653-6678.	2.3	52
59	Binding free energies in the SAMPL6 octa-acid host-guest challenge calculated with MM and QM methods. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 1027-1046.	1.3	15
60	Reaction mechanism of formate dehydrogenase studied by computational methods. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1243-1254.	1.1	34
61	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.	2.3	23
62	On the Difference Between Additive and Subtractive QM/MM Calculations. <i>Frontiers in Chemistry</i> , 2018, 6, 89.	1.8	71
63	Insight into the reaction mechanism of lipoyl synthase: a QM/MM study. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 221-229.	1.1	12
64	Frontispiece: Quantum Crystallography: Current Developments and Future Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	1
65	A novel mechanism of heme degradation to biliverdin studied by QM/MM and QM calculations. <i>Dalton Transactions</i> , 2018, 47, 8283-8291.	1.6	9
66	Effect of the protein ligand in DMSO reductase studied by computational methods. <i>Journal of Inorganic Biochemistry</i> , 2017, 171, 45-51.	1.5	7
67	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.	1.3	38
68	Multiscale Modelling of Lytic Polysaccharide Monooxygenases. <i>ACS Omega</i> , 2017, 2, 536-545.	1.6	29
69	Comparison of QM/MM Methods To Obtain Ligand-Binding Free Energies. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2245-2253.	2.3	45
70	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.	2.5	0
71	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.	2.3	70
72	Targeting the reactive intermediate in polysaccharide monooxygenases. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1029-1037.	1.1	52

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73	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.	1.2	62
74	QM/MM Study of the Conversion of Oxophlorin into Verdoheme by Heme Oxygenase. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11427-11436.	1.2	9
75	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.	1.3	21
76	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.	1.5	46
77	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
78	Ligand-Binding Affinity Estimates Supported by Quantum-Mechanical Methods. <i>Chemical Reviews</i> , 2016, 116, 5520-5566.	23.0	216
79	QM/MM Calculations on Proteins. <i>Methods in Enzymology</i> , 2016, 577, 119-158.	0.4	75
80	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.	1.3	40
81	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.	2.3	14
82	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.	1.9	14
83	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.	1.1	40
84	A Computational Comparison of Oxygen Atom Transfer Catalyzed by Dimethyl Sulfide Oxidoreductase with Mo and W. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3580-3589.	1.0	23
85	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.	1.5	38
86	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.	1.2	24
87	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.	3.3	32
88	The MM/PBSA and MM/GBSA methods to estimate ligand-binding affinities. <i>Expert Opinion on Drug Discovery</i> , 2015, 10, 449-461.	2.5	2,907
89	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.	7.2	22
90	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.	1.1	27

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91	Coupled Cluster Interaction Energies for 200-Atom Host-Guest Systems. <i>ChemPhysChem</i> , 2014, 15, 3270-3281.	1.0	18
92	Computational modelling of oxygenation processes in enzymes and biomimetic model complexes. <i>Chemical Communications</i> , 2014, 50, 262-282.	2.2	110
93	Comparison of the Active-Site Design of Molybdenum Oxo-Transfer Enzymes by Quantum Mechanical Calculations. <i>Inorganic Chemistry</i> , 2014, 53, 11913-11924.	1.9	17
94	Theoretical ⁵⁷ Fe Mössbauer spectroscopy: isomer shifts of [Fe]-hydrogenase intermediates. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4853-4863.	1.3	21
95	A Large-Scale Test of Free-Energy Simulation Estimates of Protein-Ligand Binding Affinities. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 2794-2806.	2.5	54
96	A fundamental view of enthalpy-entropy compensation. <i>MedChemComm</i> , 2014, 5, 1324-1336.	3.5	98
97	Conformational Entropies and Order Parameters: Convergence, Reproducibility, and Transferability. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 432-438.	2.3	31
98	A quantum-mechanical study of the reaction mechanism of sulfite oxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1165-1179.	1.1	23
99	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.	1.2	35
100	Effect of explicit water molecules on ligand-binding affinities calculated with the MM/GBSA approach. <i>Journal of Molecular Modeling</i> , 2014, 20, 2273.	0.8	35
101	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.	1.3	70
102	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.	1.3	58
103	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.	1.0	26
104	Comparison of MM/GBSA calculations based on explicit and implicit solvent simulations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7731.	1.3	76
105	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.	2.3	75
106	Theoretical studies of the active-site structure, spectroscopic and thermodynamic properties, and reaction mechanism of multicopper oxidases. <i>Coordination Chemistry Reviews</i> , 2013, 257, 445-458.	9.5	52
107	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.	1.2	21
108	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.	2.3	80

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109	Understanding the Chemistry of Lead at a Molecular Level: The Pb(II) 6s6p Lone Pair Can Be Bisdirected in Proteins. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2416-2424.	2.3	8
110	How are hydrogen bonds modified by metal binding?. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 499-522.	1.1	8
111	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.	2.3	42
112	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.	2.5	166
113	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.	1.2	137
114	Convergence of QM/MM free-energy perturbations based on molecular-mechanics or semiempirical simulations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12592.	1.3	68
115	Can the protonation state of histidine residues be determined from molecular dynamics simulations?. <i>Computational and Theoretical Chemistry</i> , 2012, 1000, 75-84.	1.1	30
116	Transferability of conformational dependent charges from protein simulations. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1768-1785.	1.0	10
117	Comparison of endâ€point continuumâ€solvation methods for the calculation of proteinâ€ligand binding free energies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1326-1342.	1.5	78
118	On the Possibility of Uphill Intramolecular Electron Transfer in Multicopper Oxidases: Electrochemical and Quantum Chemical Study of Bilirubin Oxidase. <i>Electroanalysis</i> , 2012, 24, 1524-1540.	1.5	49
119	Will molecular dynamics simulations of proteins ever reach equilibrium?. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8662.	1.3	85
120	Improving the Efficiency of Proteinâ€Ligand Binding Free-Energy Calculations by System Truncation. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1449-1458.	2.3	18
121	Binding affinities in the SAMPL3 trypsin and hostâ€guest blind tests estimated with the MM/PBSA and LIE methods. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 527-541.	1.3	46
122	A semiempirical approach to ligandâ€binding affinities: Dependence on the Hamiltonian and corrections. <i>Journal of Computational Chemistry</i> , 2012, 33, 1179-1189.	1.5	28
123	Fast generation of brokenâ€symmetry states in a large system including multiple ironâ€sulfur assemblies: Investigation of QM/MM energies, clusters charges, and spin populations. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 3949-3960.	1.0	39
124	Targeting Intermediates of [FeFe]-Hydrogenase by CO and CN Vibrational Signatures. <i>Inorganic Chemistry</i> , 2011, 50, 3888-3900.	1.9	51
125	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.	1.3	39
126	On the Convergence of QM/MM Energies. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 761-777.	2.3	185

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127	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.	2.5	72
128	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.	6.6	38
129	Conformational Dependence of Isotropic Polarizabilities. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1404-1414.	2.3	13
130	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.	2.3	71
131	Comparison of Methods to Obtain Force-Field Parameters for Metal Sites. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2452-2463.	2.3	108
132	Reductive cleavage of the O-O bond in multicopper oxidases: a QM/MM and QM study. <i>Faraday Discussions</i> , 2011, 148, 41-53.	1.6	22
133	Reorganization Energy for Internal Electron Transfer in Multicopper Oxidases. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13111-13126.	1.2	55
134	Does DFT-D estimate accurate energies for the binding of ligands to metal complexes?. <i>Dalton Transactions</i> , 2011, 40, 11176.	1.6	81
135	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.	6.6	56
136	Arguments for a narrow species concept in <i>Rubus</i> sect. <i>Corylifolii</i> . <i>Nordic Journal of Botany</i> , 2011, 29, 708-721.	0.2	9
137	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.	1.3	36
138	Magnetic Properties of [FeFe]-Hydrogenases: A Theoretical Investigation Based on Extended QM and QM/MM Models of the H-Cluster and Its Surroundings. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1043-1049.	1.0	21
139	Reduction Potentials and Acidity Constants of Mn Superoxide Dismutase Calculated by QM/MM Free-Energy Methods. <i>ChemPhysChem</i> , 2011, 12, 3337-3347.	1.0	38
140	Probing the Effects of One-Electron Reduction and Protonation on the Electronic Properties of the Fe-S Clusters in the Active-Ready Form of [FeFe]-Hydrogenases. A QM/MM Investigation. <i>ChemPhysChem</i> , 2011, 12, 3376-3382.	1.0	10
141	A comparison of different initialization protocols to obtain statistically independent molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2011, 32, 187-195.	1.5	59
142	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.	1.7	16
143	How to obtain statistically converged MM/GBSA results. <i>Journal of Computational Chemistry</i> , 2010, 31, 837-846.	1.5	167
144	A combined computational and experimental investigation of the [2Fe-2S] cluster in biotin synthase. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 203-212.	1.1	10

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145	Estimates of ligand-binding affinities supported by quantum mechanical methods. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010, 2, 21-37.	2.2	21
146	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.	6.6	209
147	Ligand Affinities Estimated by Quantum Chemical Calculations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1726-1737.	2.3	81
148	Nonpolar Solvation Free Energies of Protein-Ligand Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3558-3568.	2.3	26
149	Starting-Condition Dependence of Order Parameters Derived from Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2176-2190.	2.3	38
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