

Ursula Rthlisberger

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papers

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h-index

132
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278
ext. papers

21,412
ext. citations

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L-index

#	Paper	IF	Citations
262	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. <i>Nature Chemistry</i> , 2014 , 6, 242-7	17.6	3560
261	Entropic stabilization of mixed A-cation ABX ₃ metal halide perovskites for high performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 656-662	35.4	882
260	Pseudo-halide anion engineering for FAPbI perovskite solar cells. <i>Nature</i> , 2021 , 592, 381-385	50.4	814
259	A Hamiltonian electrostatic coupling scheme for hybrid CarBarrinello molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2002 , 116, 6941-6947	3.9	540
258	Ionic polarization-induced current-voltage hysteresis in CH ₃ NH ₃ PbX ₃ perovskite solar cells. <i>Nature Communications</i> , 2016 , 7, 10334	17.4	500
257	Optimization of effective atom centered potentials for london dispersion forces in density functional theory. <i>Physical Review Letters</i> , 2004 , 93, 153004	7.4	463
256	New paradigm in molecular engineering of sensitizers for solar cell applications. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5930-4	16.4	365
255	Structural and electronic properties of sodium microclusters (n=200) at low and high temperatures: New insights from ab initio molecular dynamics studies. <i>Journal of Chemical Physics</i> , 1991 , 94, 8129-8151	3.9	311
254	Trajectory surface hopping within linear response time-dependent density-functional theory. <i>Physical Review Letters</i> , 2007 , 98, 023001	7.4	303
253	Mixed Quantum Mechanical/Molecular Mechanical Molecular Dynamics Simulations of Biological Systems in Ground and Electronically Excited States. <i>Chemical Reviews</i> , 2015 , 115, 6217-63	68.1	277
252	Structure of nanoscale silicon clusters. <i>Physical Review Letters</i> , 1994 , 72, 665-668	7.4	262
251	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257
250	The role and perspective of ab initio molecular dynamics in the study of biological systems. <i>Accounts of Chemical Research</i> , 2002 , 35, 455-64	24.3	248
249	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. <i>Science Advances</i> , 2016 , 2, e1601156	14.3	238
248	Ligand substitutions between ruthenium-cymene compounds can control protein versus DNA targeting and anticancer activity. <i>Nature Communications</i> , 2014 , 5, 3462	17.4	227
247	Structure and Dynamics of Liquid Water from ab Initio Molecular Dynamics-Comparison of BLYP, PBE, and revPBE Density Functionals with and without van der Waals Corrections. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3902-10	6.4	207
246	Quantitative photo activated localization microscopy: unraveling the effects of photoblinking. <i>PLoS ONE</i> , 2011 , 6, e22678	3.7	202

245	Binding of Organometallic Ruthenium(II) and Osmium(II) Complexes to an Oligonucleotide: A Combined Mass Spectrometric and Theoretical Study <i>Organometallics</i> , 2005 , 24, 2114-2123	3.8	198
244	Sodium cluster ionisation potentials revisited: Higher-resolution measurements for Na _x (x. <i>Chemical Physics Letters</i> , 1988 , 143, 251-258	2.5	187
243	D-RESP: Dynamically Generated Electrostatic Potential Derived Charges from Quantum Mechanics/Molecular Mechanics Simulations. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7300-7307	3.4	174
242	Mixed time-dependent density-functional theory/classical trajectory surface hopping study of oxirane photochemistry. <i>Journal of Chemical Physics</i> , 2008 , 129, 124108	3.9	165
241	Importance of van der Waals interactions in liquid water. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11273-11281	3.1	164
240	Identification of clustering artifacts in photoactivated localization microscopy. <i>Nature Methods</i> , 2011 , 8, 527-8	21.6	162
239	Influence of Hydrogen-Bonding Substituents on the Cytotoxicity of RAPTA Compounds. <i>Organometallics</i> , 2006 , 25, 756-765	3.8	148
238	Acid-induced degradation of phosphorescent dopants for OLEDs and its application to the synthesis of tris-heteroleptic iridium(III) bis-cyclometalated complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 215-24	5.1	147
237	Trajectory-based nonadiabatic dynamics with time-dependent density functional theory. <i>ChemPhysChem</i> , 2013 , 14, 1314-40	3.2	143
236	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2733-2739	9.6	136
235	Thirteen-atom clusters: Equilibrium geometries, structural transformations, and trends in Na, Mg, Al, and Si. <i>Journal of Chemical Physics</i> , 1992 , 96, 1248-1256	3.9	131
234	Microsolvation effects on the excited-state dynamics of protonated tryptophan. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16938-43	16.4	130
233	Role of protein frame and solvent for the redox properties of azurin from <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19641-6	11.5	126
232	Molecular dynamics in electronically excited states using time-dependent density functional theory. <i>Molecular Physics</i> , 2005 , 103, 963-981	1.7	120
231	Drug resistance in HIV-1 protease: Flexibility-assisted mechanism of compensatory mutations. <i>Protein Science</i> , 2002 , 11, 2393-402	6.3	105
230	QM/MM Car-Parrinello molecular dynamics study of the solvent effects on the ground state and on the first excited singlet state of acetone in water. <i>ChemPhysChem</i> , 2003 , 4, 1177-82	3.2	105
229	Structure and Dynamics of Liquid Water from ab Initio Molecular Dynamics: Comparison of BLYP, PBE, and revPBE Density Functionals with and without van der Waals Corrections. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3902-3910	6.4	105
228	Variational optimization of effective atom centered potentials for molecular properties. <i>Journal of Chemical Physics</i> , 2005 , 122, 14113	3.9	104

227	Variational particle number approach for rational compound design. <i>Physical Review Letters</i> , 2005 , 95, 153002	7.4	103
226	Nonadiabatic coupling vectors within linear response time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2009 , 130, 124107	3.9	102
225	Early steps of the intramolecular signal transduction in rhodopsin explored by molecular dynamics simulations. <i>Biochemistry</i> , 2002 , 41, 10799-809	3.2	102
224	Cisplatin Binding to DNA Oligomers from Hybrid Car-Parrinello/Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2699-2707	3.4	101
223	Reaction Mechanism of HIV-1 Protease by Hybrid Car-Parrinello/Classical MD Simulations. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11139-11149	3.4	100
222	Charge migration and charge transfer in molecular systems. <i>Structural Dynamics</i> , 2017 , 4, 061508	3.2	98
221	Influence of halogen atoms on a homologous series of bis-cyclometalated iridium(III) complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 799-811	5.1	97
220	Stabilization of the Perovskite Phase of Formamidinium Lead Triiodide by Methylammonium, Cs, and/or Rb Doping. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1191-1196	6.4	96
219	Water-assisted reaction mechanism of monozinc beta-lactamases. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12661-8	16.4	92
218	Valence and conduction band tuning in halide perovskites for solar cell applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15997-16002	13	90
217	Nonadiabatic coupling vectors for excited states within time-dependent density functional theory in the Tamm-Dancoff approximation and beyond. <i>Journal of Chemical Physics</i> , 2010 , 133, 194104	3.9	90
216	DNA structural distortions induced by ruthenium-arene anticancer compounds. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10921-8	16.4	88
215	A molecular spring for vision. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15328-9	16.4	88
214	Ab initio molecular dynamics simulation of liquid hydrogen fluoride. <i>Journal of Chemical Physics</i> , 1997 , 106, 4658-4664	3.9	87
213	Nonadiabatic molecular dynamics with solvent effects: A LR-TDDFT QM/MM study of ruthenium (II) tris (bipyridine) in water. <i>Chemical Physics</i> , 2011 , 391, 101-109	2.3	85
212	Fighting Cancer with Transition Metal Complexes: From Naked DNA to Protein and Chromatin Targeting Strategies. <i>ChemMedChem</i> , 2016 , 11, 1199-210	3.7	85
211	Polarization effects and charge transfer in the KcsA potassium channel. <i>Biophysical Chemistry</i> , 2006 , 124, 292-301	3.5	78
210	Automated Parametrization of Biomolecular Force Fields from Quantum Mechanics/Molecular Mechanics (QM/MM) Simulations through Force Matching. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 628-39	6.4	74

209	On nonadiabatic coupling vectors in time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2009 , 131, 196101	3.9	73
208	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19980-19991	16.4	72
207	Rhodopsin Absorption from First Principles: Bypassing Common Pitfalls. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 2441-54	6.4	71
206	Evolutionarily conserved functional mechanics across pepsin-like and retroviral aspartic proteases. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3734-42	16.4	71
205	pKa Estimation of Ruthenium(II)Arene PTA Complexes and their Hydrolysis Products via a DFT/Continuum Electrostatics Approach. <i>Organometallics</i> , 2007 , 26, 3969-3975	3.8	70
204	Canonical Adiabatic Free Energy Sampling (CAFES): A Novel Method for the Exploration of Free Energy Surfaces. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 203-208	3.4	68
203	A QM/MM investigation of thymine dimer radical anion splitting catalyzed by DNA photolyase. <i>ChemPhysChem</i> , 2009 , 10, 400-10	3.2	67
202	Studies of glutathione transferase P1-1 bound to a platinum(IV)-based anticancer compound reveal the molecular basis of its activation. <i>Chemistry - A European Journal</i> , 2011 , 17, 7806-16	4.8	66
201	Weakly Bonded Complexes of Aliphatic and Aromatic Carbon Compounds Described with Dispersion Corrected Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1673-9	6.4	64
200	Predictive Determination of Band Gaps of Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5507-5512	6.4	63
199	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17659-17669	16.4	63
198	Solvent and protein effects on the structure and dynamics of the rhodopsin chromophore. <i>ChemPhysChem</i> , 2005 , 6, 1836-47	3.2	62
197	The Molecular Mechanism of the Catalase-like Activity in Horseradish Peroxidase. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11170-8	16.4	61
196	Trajectory-based solution of the nonadiabatic quantum dynamics equations: an on-the-fly approach for molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3231-6	3.6	61
195	Predicting noncovalent interactions between aromatic biomolecules with London-dispersion-corrected DFT. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 14346-54	3.4	61
194	Nanocomposites Containing Neutral Blue Emitting Cyclometalated Iridium(III) Emitters for Oxygen Sensing. <i>Chemistry of Materials</i> , 2012 , 24, 2330-2338	9.6	60
193	Electron localization dynamics in the triplet excited state of [Ru(bpy) ₃] ²⁺ in aqueous solution. <i>Chemistry - A European Journal</i> , 2010 , 16, 5889-94	4.8	59
192	Computational study of thymine dimer radical anion splitting in the self-repair process of duplex DNA. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3443-50	16.4	59

191	Formation of Boronate Ester Polymers with Efficient Intrastrand Charge-Transfer Transitions by Three-Component Reactions. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 5177-5181	2.3	59
190	Cold-ion spectroscopy reveals the intrinsic structure of a decapeptide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5383-6	16.4	58
189	Insights into intrastrand cross-link lesions of DNA from QM/MM molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2111-9	16.4	57
188	Combined QM/MM and classical molecular dynamics study of [Ru(bpy) ₃] ²⁺ in water. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7737-44	3.4	57
187	Non-adiabatic dynamics using time-dependent density functional theory: Assessing the coupling strengths. <i>Computational and Theoretical Chemistry</i> , 2009 , 914, 22-29		56
186	Tuning the Efficacy of Ruthenium(II)-Arene (RAPTA) Antitumor Compounds with Fluorinated Arene Ligands. <i>Organometallics</i> , 2009 , 28, 5061-5071	3.8	56
185	Describing weak interactions of biomolecules with dispersion-corrected density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2730-4	3.6	56
184	Directed evolution of the suicide protein O ⁶ -alkylguanine-DNA alkyltransferase for increased reactivity results in an alkylated protein with exceptional stability. <i>Biochemistry</i> , 2012 , 51, 986-94	3.2	55
183	Coordination numbers of K(+) and Na(+) Ions inside the selectivity filter of the KcsA potassium channel: insights from first principles molecular dynamics. <i>Biophysical Journal</i> , 2010 , 98, L47-9	2.9	55
182	Hydrogen bonding described using dispersion-corrected density functional theory. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4726-32	3.4	55
181	Allosteric cross-talk in chromatin can mediate drug-drug synergy. <i>Nature Communications</i> , 2017 , 8, 14860	7.4	54
180	Hybrid QM/MM Car-Parrinello Simulations of Catalytic and Enzymatic Reactions. <i>Chimia</i> , 2002 , 56, 13-19	1.3	53
179	Who Activates the Nucleophile in Ribozyme Catalysis? An Answer from the Splicing Mechanism of Group II Introns. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10374-7	16.4	52
178	Nuclear Magnetic Resonance Chemical Shifts from Hybrid DFT QM/MM Calculations. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2807-2815	3.4	52
177	The torsional potential of perfluoro n-alkanes: A density functional study. <i>Journal of Chemical Physics</i> , 1996 , 104, 3692-3700	3.9	48
176	The Structure of the Protonated Serine Octamer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7554-7560	16.4	47
175	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2642-2648	9.6	47
174	Hydroxide and proton migration in aquaporins. <i>Biophysical Journal</i> , 2005 , 89, 1744-59	2.9	47

173	Charge transfer relaxation in donor-acceptor type conjugated materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2308	7.1	46
172	Reactions of alkynes with [RuCl(cyclopentadienyl)] complexes: the important first steps. <i>Chemistry - A European Journal</i> , 2010 , 16, 8400-9	4.8	46
171	Mixed quantum-classical dynamics with time-dependent external fields: A time-dependent density-functional-theory approach. <i>Physical Review A</i> , 2010 , 81,	2.6	45
170	Synthesis, characterization and ab initio investigation of a panchromatic ullazine-porphyrin photosensitizer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2332-2339	13	44
169	Characterization of the Dizinc Analogue of the Synthetic Diiron Protein DF1 Using ab Initio and Hybrid Quantum/Classical Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4182-4188	3.4	40
168	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4691-4697	16.4	40
167	All-atom simulations disentangle the functional dynamics underlying gene maturation in the intron lariat spliceosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6584-6589	11.5	39
166	A Variational Definition of Electrostatic Potential Derived Charges. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7963-7968	3.4	39
165	Ditantalum Hydride Complexes with Bridging (2,6-iPr ₂ C ₆ H ₃)NSiHPh Silanimine Ligands Resulting from PhSiH ₃ -Imido Ligand Coupling. A Combined Spectroscopic and Theoretical Investigation. <i>Organometallics</i> , 2000 , 19, 3830-3841	3.8	39
164	Development of Site-Specific Mg(2+)-RNA Force Field Parameters: A Dream or Reality? Guidelines from Combined Molecular Dynamics and Quantum Mechanics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 340-352	6.4	38
163	Origin of the spectral shifts among the early intermediates of the rhodopsin photocycle. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3842-51	16.4	38
162	Effect of graphene oxide nanosheets on visible light-assisted antibacterial activity of vertically-aligned copper oxide nanowire arrays. <i>Journal of Colloid and Interface Science</i> , 2018 , 521, 119-131	9.3	37
161	Structure of Solid Poly(tetrafluoroethylene): A Computer Simulation Study of Chain Orientational, Translational, and Conformational Disorder. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2745-2749	3.4	37
160	Direct observation of an equilibrium between two anion-cation orientations in olefin Pt(II) complex ion pairs by HOESY NMR spectroscopy. <i>New Journal of Chemistry</i> , 2003 , 27, 455-458	3.6	37
159	Optical spectra of Cu(II)-azurin by hybrid TDDFT-molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10248-52	3.4	36
158	Na ₆ Pb: a bimetallic cluster of striking stability. <i>Chemical Physics Letters</i> , 1995 , 237, 334-338	2.5	36
157	CuAl Spinel as a Highly Active and Stable Catalyst for the Reverse Water Gas Shift Reaction. <i>ACS Catalysis</i> , 2019 , 9, 6243-6251	13.1	35
156	Accurate DFT Descriptions for Weak Interactions of Molecules Containing Sulfur. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 23-8	6.4	35

155	A comparative theoretical study of dipeptide solvation in water. <i>Journal of Computational Chemistry</i> , 2006 , 27, 672-84	3.5	35
154	Dialkyl Effect on Enantioselectivity: π -Stacking as a Structural Feature in P,N Complexes of Palladium(II). <i>Organometallics</i> , 2002 , 21, 3033-3041	3.8	35
153	Conformational and orientational order and disorder in solid polytetrafluoroethylene. <i>Molecular Physics</i> , 1999 , 97, 355-373	1.7	35
152	Formamidinium-Based Dion-Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2003428	15.6	34
151	Predicting novel binding modes of agonists to β -adrenergic receptors using all-atom molecular dynamics simulations. <i>PLoS Computational Biology</i> , 2011 , 7, e1001053	5	33
150	NMR solvent shifts of adenine in aqueous solution from hybrid QM/MM molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5225-32	3.4	33
149	Probing the electronic and geometric structure of ferric and ferrous myoglobins in physiological solutions by Fe K-edge absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1617-31	3.6	32
148	Molecular simulations of ion channels: a quantum chemist's perspective. <i>Journal of General Physiology</i> , 2010 , 135, 549-54	3.4	32
147	Binding of organometallic ruthenium(II) anticancer compounds to nucleobases: a computational study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11888-97	2.8	32
146	The protonation state of the Glu-71/Asp-80 residues in the KcsA potassium channel: a first-principles QM/MM molecular dynamics study. <i>Biophysical Journal</i> , 2007 , 93, 2315-24	2.9	32
145	Anandamide hydrolysis in FAAH reveals a dual strategy for efficient enzyme-assisted amide bond cleavage via nitrogen inversion. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 789-801	3.4	31
144	Quantum Mechanical/Molecular Mechanical (QM/MM) Car-Parrinello Simulations in Excited States. <i>Chimia</i> , 2005 , 59, 493-498	1.3	31
143	Chiral Palladium(II)Bis(trichlorosilyl) Complexes. Synthesis, Structure, and Combined QM/MM Computational Studies. <i>Organometallics</i> , 2000 , 19, 2144-2152	3.8	31
142	The Role of π -Stacking Interactions in Square Planar Palladium Complexes. Combined Quantum Mechanics/Molecular Mechanics QM/MM Studies. <i>Organometallics</i> , 2001 , 20, 4178-4184	3.8	31
141	In Situ Mapping of the Molecular Arrangement of Amphiphilic Dye Molecules at the TiO ₂ Surface of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10834-42	9.5	30
140	Computational insights into function and inhibition of fatty acid amide hydrolase. <i>European Journal of Medicinal Chemistry</i> , 2015 , 91, 15-26	6.8	30
139	A vibronic coupling hamiltonian to describe the ultrafast excited state dynamics of a Cu(I)-phenanthroline complex. <i>Chimia</i> , 2014 , 68, 227-30	1.3	30
138	Integrating computational methods to retrofit enzymes to synthetic pathways. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 572-82	4.9	30

137	A conserved protonation-induced switch can trigger "ionic-lock" formation in adrenergic receptors. <i>Journal of Molecular Biology</i> , 2010 , 397, 1339-49	6.5	30
136	Parameterization of azole-bridged dinuclear platinum anticancer drugs via a QM/MM force matching procedure. <i>Journal of Computational Chemistry</i> , 2008 , 29, 38-49	3.5	30
135	Ab initio molecular dynamics studies of a synthetic biomimetic model of galactose oxidase. <i>International Journal of Quantum Chemistry</i> , 1999 , 73, 209-218	2.1	30
134	Enantioselective Palladium-Catalyzed Hydrosilylation of Styrene: Detailed Reaction Mechanism from First-Principles and Hybrid QM/MM Molecular Dynamics Simulations. <i>Organometallics</i> , 2004 , 23, 3218-3227	3.8	29
133	Oxidation of Nitrite by Peroxynitrous Acid. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1763-1769	2.8	29
132	Rational Design of Organo-Ruthenium Anticancer Compounds. <i>Chimia</i> , 2005 , 59, 81-84	1.3	29
131	Ruddlesden-Popper Phases of Methylammonium-Based Two-Dimensional Perovskites with 5-Ammonium Valeric Acid AVAMA Pb I with n = 1, 2, and 3. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3543-3549	6.4	28
130	Computational Characterization of the Dependence of Halide Perovskite Effective Masses on Chemical Composition and Structure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23886-23895	3.8	28
129	Keys to Lipid Selection in Fatty Acid Amide Hydrolase Catalysis: Structural Flexibility, Gating Residues and Multiple Binding Pockets. <i>PLoS Computational Biology</i> , 2015 , 11, e1004231	5	28
128	Efficient multidimensional free energy calculations for ab initio molecular dynamics using classical bias potentials. <i>Journal of Chemical Physics</i> , 2000 , 113, 4863	3.9	27
127	On the proton transfer mechanism in ammonia-bridged 7-hydroxyquinoline: a TDDFT molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 4549-55	3.6	26
126	Influence of Long-Range Electrostatic Treatments on the Folding of the N-Terminal H4 Histone Tail Peptide. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 246-50	6.4	26
125	Unusual Ar-H/Rh-H J(HH) NMR coupling in complexes of rhodium(III): experimental evidence and theoretical support for an eta ¹ -arene structure. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12492-502	16.4	26
124	Metal clusters with impurities: NanMg (n=69, 18). <i>Chemical Physics Letters</i> , 1992 , 198, 478-482	2.5	26
123	Nanoscale Phase Segregation in Supramolecular Templating for Hybrid Perovskite Photovoltaics from NMR Crystallography. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1529-1538	16.4	26
122	Ab initio molecular dynamics simulations of the gas-phase reaction of hydroxyl radical with nitrogen dioxide radical. <i>Chemical Physics Letters</i> , 1998 , 297, 205-210	2.5	25
121	Duocarmycins binding to DNA investigated by molecular simulation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3647-60	3.4	25
120	Essential role of oxygen vacancies of Cu-Al and Co-Al spinel oxides in their catalytic activity for the reverse water gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 266, 118669	21.8	24

119	In situ parameterisation of SCC-DFTB repulsive potentials by iterative Boltzmann inversion. <i>Molecular Physics</i> , 2013 , 111, 3595-3607	1.7	24
118	Structural and Energetic Properties of Organometallic Ruthenium(II) Diamine Anticancer Compounds and Their Interaction with Nucleobases. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1212-22	6.4	24
117	Green oxidation catalysts: computational design of high-efficiency models of galactose oxidase. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3286-9	16.4	24
116	Atomistic Mechanism of the Nucleation of Methylammonium Lead Iodide Perovskite from Solution. <i>Chemistry of Materials</i> , 2020 , 32, 529-536	9.6	24
115	Does Proton Conduction in the Voltage-Gated H Channel hHv1 Involve Grothuss-Like Hopping via Acidic Residues?. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3340-3351	3.4	23
114	Role of environment for catalysis of the DNA repair enzyme MutY. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8608-16	16.4	23
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