

Ursula Rthlisberger

List of Publications by Year in Descending Order

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

262
papers

18,994
citations

63
h-index

132
g-index

278
ext. papers

21,412
ext. citations

7.3
avg, IF

6.88
L-index

#	Paper	IF	Citations
262	Recent Advances in First-Principles Based Molecular Dynamics.. <i>Accounts of Chemical Research</i> , 2022 ,	24.3	3
261	A universal co-solvent dilution strategy enables facile and cost-effective fabrication of perovskite photovoltaics.. <i>Nature Communications</i> , 2022 , 13, 89	17.4	14
260	A multiple time step algorithm for trajectory surface hopping simulations.. <i>Journal of Chemical Physics</i> , 2022 , 156, 034107	3.9	2
259	A theoretical perspective of the ultrafast transient absorption dynamics of CsPbBr ₃ .. <i>Journal of Computational Chemistry</i> , 2022 ,	3.5	1
258	Bismuthene as a versatile photocatalyst operating under variable conditions for the photoredox C-H bond functionalization. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120957	21.8	1
257	Reversible Pressure-Dependent Mechanochromism of Dion-Jacobson and Ruddlesden-Popper Layered Hybrid Perovskites.. <i>Advanced Materials</i> , 2022 , e2108720	24	2
256	Atom-by-Atom Synthesis of Multiatom-Supported Catalytic Clusters by Liquid-Phase Atomic Layer Deposition. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3455-3465	8.3	0
255	Pseudo-halide anion engineering for FAPbI ₃ perovskite solar cells. <i>Nature</i> , 2021 , 592, 381-385	50.4	814
254	A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure FAPbI ₃ . <i>Science Advances</i> , 2021 , 7,	14.3	17
253	Expanding the boundaries of ligand-target modeling by exascale calculations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1535	7.9	2
252	Organic Spacers in 2D Perovskites: General Trends and Structure-Property Relationships from Computational Studies. <i>Helvetica Chimica Acta</i> , 2021 , 104, e2000232	2	3
251	Multimodal host-guest complexation for efficient and stable perovskite photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3383	17.4	17
250	Gβ inhibition mechanism of ATP-bound adenylyl cyclase type 5. <i>PLoS ONE</i> , 2021 , 16, e0245197	3.7	2
249	Molecular Origin of the Asymmetric Photoluminescence Spectra of CsPbBr ₃ at Low Temperature. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2699-2704	6.4	7
248	Naphthalenediimide/Formamidinium-Based Low-Dimensional Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 6412-6420	9.6	2
247	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
246	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2021 , 14, 5552-5562	35.4	20

245	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
244	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
243	Atomistic Origins of the Limited Phase Stability of Cs+-Rich FAXCs(1-x)PbI3 Mixtures. <i>Chemistry of Materials</i> , 2020 , 32, 2605-2614	9.6	14
242	MiMiC: Multiscale Modeling in Computational Chemistry. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 45	5.6	3
241	Molecular Basis of CLC Antiporter Inhibition by Fluoride. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7254-7258	16.4	10
240	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257
239	Biomolecular Simulation: A Perspective from High Performance Computing. <i>Israel Journal of Chemistry</i> , 2020 , 60, 694-704	3.4	0
238	From a week to less than a day: Speedup and scaling of coordinate-scaled exact exchange calculations in plane waves. <i>Computer Physics Communications</i> , 2020 , 247, 106943	4.2	3
237	Atomistic Mechanism of the Nucleation of Methylammonium Lead Iodide Perovskite from Solution. <i>Chemistry of Materials</i> , 2020 , 32, 529-536	9.6	24
236	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4691-4697	16.4	40
235	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie</i> , 2020 , 132, 4721-4727	3.6	
234	Accuracy of Molecular Simulation-Based Predictions of Values: A Metadynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6373-6381	6.4	14
233	Formamidinium-Based Dion-Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2003428	15.6	34
232	Structural and Photophysical Templating of Conjugated Polyelectrolytes with Single-Stranded DNA. <i>Chemistry of Materials</i> , 2020 , 32, 7347-7362	9.6	1
231	Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17732-17740	13	7
230	Redox Properties of Native and Damaged DNA from Mixed Quantum Mechanical/Molecular Mechanics Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6690-6701	6.4	8
229	Multidisciplinary Preclinical Investigations on Three Oxamniquine Analogues as New Drug Candidates for Schistosomiasis*. <i>Chemistry - A European Journal</i> , 2020 , 26, 15232-15241	4.8	1
228	Why choosing the right partner is important: stabilization of ternary CsGUAFAFAPbI perovskites. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 20880-20890	3.6	2

227	Efficient Treatment of Correlation Energies at the Basis-Set Limit by Monte Carlo Summation of Continuum States. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6550-6559	6.4	1
226	Extreme Scalability of DFT-Based QM/MM MD Simulations Using MiMiC. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5601-5613	6.4	20
225	Ultrafast nuclear dynamics of the acetylene cation CH and its impact on the infrared probe pulse induced C-H bond breaking efficiency. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18380-18385	3.6	0
224	Association of Both Inhibitory and Stimulatory G β Subunits Implies Adenylyl Cyclase 5 Deactivation. <i>Biochemistry</i> , 2019 , 58, 4317-4324	3.2	6
223	Vertical Ionization Energies and Electron Affinities of Native and Damaged DNA Bases, Nucleotides, and Pairs from Density Functional Theory Calculations: Model Assessment and Implications for DNA Damage Recognition and Repair. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 2049-2052	6.4	11
222	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
221	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
220	MiMiC: A Novel Framework for Multiscale Modeling in Computational Chemistry. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3810-3823	6.4	18
219	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
218	Regulation of adenylyl cyclase 5 in striatal neurons confers the ability to detect coincident neuromodulatory signals. <i>PLoS Computational Biology</i> , 2019 , 15, e1007382	5	9
217	Shedding Light on the Basis Set Dependence of the Minnesota Functionals: Differences Between Plane Waves, Slater Functions, and Gaussians. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 557-571	6.4	5
216	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
215	Plane-Wave Implementation and Performance of Γ -a-Carte Coulomb-Attenuated Exchange-Correlation Functionals for Predicting Optical Excitation Energies in Some Notorious Cases. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 3184-3195	6.4	8
214	A Versatile Multiple Time Step Scheme for Efficient ab Initio Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 2834-2842	6.4	15
213	The Structure of the Protonated Serine Octamer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7554-7560	16.4	47
212	Genetic Algorithm Based Design and Experimental Characterization of a Highly Thermostable Metalloprotein. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4517-4521	16.4	10
211	Exploiting Coordinate Scaling Relations To Accelerate Exact Exchange Calculations. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3886-3890	6.4	4
210	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

209	Emergence of hidden phases of methylammonium lead iodide (CH ₃ NH ₃ PbI ₃) upon compression. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
208	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
207	Allosteric cross-talk in chromatin can mediate drug-drug synergy. <i>Nature Communications</i> , 2017 , 8, 14860	7.4	54
206	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
205	Effect of N-Terminal Myristoylation on the Active Conformation of GβGTP. <i>Biochemistry</i> , 2017 , 56, 271-280	9.2	14
204	Predictive Determination of Band Gaps of Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5507-5512	6.4	63
203	Can Biomimetic Zinc Compounds Assist a (3 + 2) Cycloaddition Reaction? A Theoretical Perspective. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 6382-6390	6.4	
202	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
201	How Rhodopsin Tunes the Equilibrium between Protonated and Deprotonated Forms of the Retinal Chromophore. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4524-4534	6.4	8
200	Does Proton Conduction in the Voltage-Gated H Channel hHv1 Involve Grothhuss-Like Hopping via Acidic Residues?. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3340-3351	3.4	23
199	Nonadiabatic effects in electronic and nuclear dynamics. <i>Structural Dynamics</i> , 2017 , 4, 061510	3.2	22
198	Charge migration and charge transfer in molecular systems. <i>Structural Dynamics</i> , 2017 , 4, 061508	3.2	98
197	Ultrafast dynamics induced by the interaction of molecules with electromagnetic fields: Several quantum, semiclassical, and classical approaches. <i>Structural Dynamics</i> , 2017 , 4, 061509	3.2	3
196	Charge separation and carrier dynamics in donor-acceptor heterojunction photovoltaic systems. <i>Structural Dynamics</i> , 2017 , 4, 061503	3.2	8
195	Implications of short time scale dynamics on long time processes. <i>Structural Dynamics</i> , 2017 , 4, 061507	3.2	18
194	Exploring the inhibition mechanism of adenylyl cyclase type 5 by n-terminal myristoylated Gβ1. <i>PLoS Computational Biology</i> , 2017 , 13, e1005673	5	11
193	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
192	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. <i>Science Advances</i> , 2016 , 2, e1601156	14.3	238

191	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
190	An Organometallic Compound which Exhibits a DNA Topology-Dependent One-Stranded Intercalation Mode. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7441-4	16.4	19
189	Synthesis, characterization and ab initio investigation of a panchromatic ullazine β porphyrin photosensitizer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2332-2339	13	44
188	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
187	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
186	An Organometallic Compound which Exhibits a DNA Topology-Dependent One-Stranded Intercalation Mode. <i>Angewandte Chemie</i> , 2016 , 128, 7567-7570	3.6	
185	Ultrafast Relaxation Dynamics of the Ethylene Cation C(2)H(4) ⁺ . <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1901-6	6.4	15
184	Genetic-Algorithm-Based Optimization of a Peptidic Scaffold for Sequestration and Hydration of CO. <i>ChemPhysChem</i> , 2016 , 17, 3831-3835	3.2	2
183	Extended Intermolecular Interactions Governing Photocurrent-Voltage Relations in Ternary Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3936-3944	6.4	9
182	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
181	Cryogenic Spectroscopy and Quantum Molecular Dynamics Determine the Structure of Cyclic Intermediates Involved in Peptide Sequence Scrambling. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2524-9	6.4	3
180	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
179	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
178	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
177	Local Control Theory in Trajectory Surface Hopping Dynamics Applied to the Excited-State Proton Transfer of 4-Hydroxyacridine. <i>ChemPhysChem</i> , 2015 , 16, 2127-33	3.2	8
176	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
175	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
174	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

173	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
172	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
171	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
170	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
169	Generalized QM/MM Force Matching Approach Applied to the 11-cis Protonated Schiff Base Chromophore of Rhodopsin. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 412-22	6.4	19
168	Photophysics and photochemistry of a DNA-protein cross-linking model: a synergistic approach combining experiments and theory. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4983-92	3.4	12
167	Assigning the EPR fine structure parameters of the Mn(II) centers in <i>Bacillus subtilis</i> oxalate decarboxylase by site-directed mutagenesis and DFT/MM calculations. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2313-23	16.4	17
166	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
165	Study of the redox properties of singlet and triplet Tris(2,2'-bipyridine)ruthenium(II) ([Ru(bpy) ₃] ²⁺) in aqueous solution by full quantum and mixed quantum/classical molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3950-9	3.4	13
164	Lessons from nature: computational design of biomimetic compounds and processes. <i>Chimia</i> , 2014 , 68, 642-7	1.3	3
163	Assessing the performance of computational methods for the prediction of the ground state structure of a cyclic decapeptide. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 808-814	2.1	12
162	Rhodopsin Absorption from First Principles: Bypassing Common Pitfalls. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 2441-54	6.4	71
161	Nonadiabatic ab initio molecular dynamics using linear-response time-dependent density functional theory. <i>Open Physics</i> , 2013 , 11,	1.3	4
160	Photodynamics of Lys ⁺ -Trp protein motifs: hydrogen bonds ensure photostability. <i>Faraday Discussions</i> , 2013 , 163, 189-203; discussion 243-75	3.6	6
159	In situ parameterisation of SCC-DFTB repulsive potentials by iterative Boltzmann inversion. <i>Molecular Physics</i> , 2013 , 111, 3595-3607	1.7	24
158	Wagging the Tail: Essential Role of Substrate Flexibility in FAAH Catalysis. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1202-13	6.4	19
157	Intricacies of Describing Weak Interactions Involving Halogen Atoms within Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 955-64	6.4	21
156	Charge transfer relaxation in donor-acceptor type conjugated materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2308	7.1	46

155	Mechanism to trigger unfolding in O(6) -alkylguanine-DNA alkyltransferase. <i>ChemBioChem</i> , 2013 , 14, 703-10	3.8	5
154	Trajectory-based nonadiabatic dynamics with time-dependent density functional theory. <i>ChemPhysChem</i> , 2013 , 14, 1314-40	3.2	143
153	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2733-2739	9.6	136
152	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2642-2648	9.6	47
151	Two misfolding routes for the prion protein around pH 4.5. <i>PLoS Computational Biology</i> , 2013 , 9, e1003057		18
150	Local control theory using trajectory surface hopping and linear-response time-dependent density functional theory. <i>Chimia</i> , 2013 , 67, 218-21	1.3	6
149	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 8893-8897	3.6	8
148	Integrating computational methods to retrofit enzymes to synthetic pathways. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 572-82	4.9	30
147	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
146	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
145	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
144	Simulations of X-ray absorption spectra: the effect of the solvent. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9444-50	3.6	20
143	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
142	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
141	Nanocomposites Containing Neutral Blue Emitting Cyclometalated Iridium(III) Emitters for Oxygen Sensing. <i>Chemistry of Materials</i> , 2012 , 24, 2330-2338	9.6	60
140	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
139	A Simple Approach to Room Temperature Phosphorescent Allenylidene Complexes. <i>Angewandte Chemie</i> , 2012 , 124, 8154-8157	3.6	3
138	A simple approach to room temperature phosphorescent allenylidene complexes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8030-3	16.4	18

137	Ultrafast anisotropic x-ray scattering in the condensed phase. <i>New Journal of Physics</i> , 2012 , 14, 113002	2.9	10
136	Excited state dynamics with quantum trajectories. <i>Chimia</i> , 2012 , 66, 174-7	1.3	4
135	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
134	Identification of clustering artifacts in photoactivated localization microscopy. <i>Nature Methods</i> , 2011 , 8, 527-8	21.6	162
133	Secondary Structure Assignment of Amyloid- β Peptide Using Chemical Shifts. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 1552-63	6.4	13
132	Quantitative photo activated localization microscopy: unraveling the effects of photoblinking. <i>PLoS ONE</i> , 2011 , 6, e22678	3.7	202
131	Mixed quantum mechanical/molecular mechanical (QM/MM) simulations of adiabatic and nonadiabatic ultrafast phenomena. <i>Chimia</i> , 2011 , 65, 330-3	1.3	5
130	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
129	Cold-ion spectroscopy reveals the intrinsic structure of a decapeptide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5383-6	16.4	58
128	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
127	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
126	Pushing the frontiers of first-principles based computer simulations of chemical and biological systems. <i>Chimia</i> , 2011 , 65, 667-71	1.3	16
125	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
124	Hybrid QM/MM Simulations of Enzyme-Catalyzed DNA Repair Reactions		2
123	Molecular simulations of ion channels: a quantum chemist's perspective. <i>Journal of General Physiology</i> , 2010 , 135, 549-54	3.4	32
122	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
121	Low Inhibiting Power of N α -CO Based Peptidomimetic Compounds against HIV-1 Protease: Insights from a QM/MM Study. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 1369-1379	6.4	8
120	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

119	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
118	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
117	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
116	Reactions of alkynes with [RuCl(cyclopentadienyl)] complexes: the important first steps. <i>Chemistry - A European Journal</i> , 2010 , 16, 8400-9	4.8	46
115	On nonadiabatic coupling vectors in time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2009 , 131, 196101	3.9	73
114	A QM/MM investigation of thymine dimer radical anion splitting catalyzed by DNA photolyase. <i>ChemPhysChem</i> , 2009 , 10, 400-10	3.2	67
113	Non-adiabatic dynamics using time-dependent density functional theory: Assessing the coupling strengths. <i>Computational and Theoretical Chemistry</i> , 2009 , 914, 22-29		56
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