

Sebastian Ehlert

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.

284 papers	76,395 citations	69 h-index	276 g-index
312 ext. papers	92,830 ext. citations	7.4 avg, IF	9.1 L-index

#	Paper	IF	Citations
284	The long-awaited synthesis and self-assembly of a small rigid -symmetric trilactam.. <i>Chemical Communications</i> , 2022 ,	5.8	1
283	The State of Fortran. <i>Computing in Science and Engineering</i> , 2022 , 1-1	1.5	0
282	Benchmark Study on the Calculation of Sn NMR Chemical Shifts.. <i>Inorganic Chemistry</i> , 2022 , 61, 3903-3917.	7.1	1
281	Dispersion corrected rSCAN based global hybrid functionals: rSCANh, rSCAN0, and rSCAN50.. <i>Journal of Chemical Physics</i> , 2022 , 156, 134105	3.9	4
280	Hydrogen atom transfer rates from Tp-containing metal-hydrides to trityl radicals. <i>Canadian Journal of Chemistry</i> , 2021 , 99, 216-220	0.9	1
279	Ligand Protonation at Carbon, not Nitrogen, during H Production with Amine-Rich Iron Electrocatalysts. <i>Inorganic Chemistry</i> , 2021 , 60, 17407-17413	5.1	0
278	Nanoscale π -conjugated ladders. <i>Nature Communications</i> , 2021 , 12, 6614	17.4	2
277	Computer-aided simulation of infrared spectra of ethanol conformations in gas, liquid and in CCl solution. <i>Journal of Computational Chemistry</i> , 2021 ,	3.5	4
276	Quantum Chemistry Common Driver and Databases (QCDB) and Quantum Chemistry Engine (QCEngine): Automation and interoperability among computational chemistry programs. <i>Journal of Chemical Physics</i> , 2021 , 155, 204801	3.9	3
275	HFIP-Assisted Single C-F Bond Activation of Trifluoromethyl Ketones using Visible-Light Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	8
274	Selective Catalytic Frustrated Lewis Pair Hydrogenation of CO in the Presence of Silylhalides. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25771-25775	16.4	2
273	Automated Quantum Chemistry-Based Calculation of Optical Rotation for Large Flexible Molecules. <i>Journal of Organic Chemistry</i> , 2021 , 86, 15522-15531	4.2	3
272	Boron-Catalyzed Hydroarylation of 1,3-Dienes with Arylamines. <i>Organic Letters</i> , 2021 , 23, 8952-8957	6.2	3
271	Chiral Dibenzopentalene-Based Conjugated Nanohoops through Stereoselective Synthesis. <i>Angewandte Chemie</i> , 2021 , 133, 10775-10784	3.6	1
270	Chiral Dibenzopentalene-Based Conjugated Nanohoops through Stereoselective Synthesis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10680-10689	16.4	9
269	Efficient Quantum Chemical Calculation of Structure Ensembles and Free Energies for Nonrigid Molecules. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4039-4054	2.8	32
268	Perspective on Simplified Quantum Chemistry Methods for Excited States and Response Properties. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 3841-3851	2.8	5

267	Comment on "The Nature of Chalcogen-Bonding-Type Tellurium-Nitrogen Interactions": Fixing the Description of Finite-Temperature Effects Restores the Agreement Between Experiment and Theory. <i>Angewandte Chemie</i> , 2021 , 133, 13252-13257	3.6	2
266	Titanocene-Catalyzed [2+2] Cycloaddition of Bisenones and Comparison with Photoredox Catalysis and Established Methods. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14339-14344	16.4	4
265	Predicting the Mass Spectra of Environmental Pollutants Using Computational Chemistry: A Case Study and Critical Evaluation. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1508-1518	3.5	4
264	Titanocene-Catalyzed [2+2] Cycloaddition of Bisenones and Comparison with Photoredox Catalysis and Established Methods. <i>Angewandte Chemie</i> , 2021 , 133, 14460-14465	3.6	1
263	Comment on "The Nature of Chalcogen-Bonding-Type Tellurium-Nitrogen Interactions": Fixing the Description of Finite-Temperature Effects Restores the Agreement Between Experiment and Theory. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13144-13149	16.4	4
262	Efficient Quantum-Chemical Calculations of Acid Dissociation Constants from Free-Energy Relationships. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 5681-5692	2.8	5
261	LiAlH ₄ -catalyzed Imine Hydrogenation with Dihydrogen: New DFT Mechanistic Insights. <i>ChemCatChem</i> , 2021 , 13, 3401-3404	5.2	2
260	Robust and Efficient Implicit Solvation Model for Fast Semiempirical Methods. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 4250-4261	6.4	31
259	From QCEIMS to QCxMS: A Tool to Routinely Calculate CID Mass Spectra Using Molecular Dynamics. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1735-1751	3.5	7
258	Facile Synthesis of Cyanide and Isocyanides from CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16965-16969	16.4	4
257	Frustrated Lewis-Pair Neighbors at the Xanthene Framework: Epimerization at Phosphorus and Cooperative Formation of Macrocyclic Adduct Structures. <i>Chemistry - A European Journal</i> , 2021 , 27, 12104-12114	4.8	9
256	Revisiting conformations of methyl lactate in water and methanol. <i>Journal of Chemical Physics</i> , 2021 , 155, 024507	3.9	6
255	[Cl@SiH]: Parent Siladodecahedrane with Endohedral Chloride Ion. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10865-10871	16.4	4
254	A Primary Acyl Phosphine Stabilized by a Phosphonium Ylide. <i>Angewandte Chemie</i> , 2021 , 133, 18695-18698	3.8	1
253	A Primary Acyl Phosphine Stabilized by a Phosphonium Ylide. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18547-18551	16.4	2
252	Extended tight-binding quantum chemistry methods. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1493	7.9	149
251	Mechanistic Insights for Dimethyl Sulfoxide Catalyzed Aromatic Chlorination Reactions. <i>ChemCatChem</i> , 2021 , 13, 207-211	5.2	2
250	Quantification of Noncovalent Interactions in Azide-Pnictogen, -Chalcogen, and -Halogen Contacts. <i>Chemistry - A European Journal</i> , 2021 , 27, 4627-4639	4.8	11

249	Sensory Perception of Non-Deuterated and Deuterated Organic Compounds. <i>Chemistry - A European Journal</i> , 2021 , 27, 1046-1056	4.8	1
248	Theoretical study on conformational energies of transition metal complexes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 287-299	3.6	24
247	Oxidation Under Reductive Conditions: From Benzylic Ethers to Acetals with Perfect Atom-Economy by Titanocene(III) Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5482-5488	16.4	8
246	Oxidation Under Reductive Conditions: From Benzylic Ethers to Acetals with Perfect Atom-Economy by Titanocene(III) Catalysis. <i>Angewandte Chemie</i> , 2021 , 133, 5542-5548	3.6	5
245	Comprehensive Benchmark Study on the Calculation of Si NMR Chemical Shifts. <i>Inorganic Chemistry</i> , 2021 , 60, 272-285	5.1	9
244	Calculation of absolute molecular entropies and heat capacities made simple. <i>Chemical Science</i> , 2021 , 12, 6551-6568	9.4	17
243	Benchmarking London dispersion corrected density functional theory for noncovalent ion- π interactions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11635-11648	3.6	7
242	Lithium Dicyclohexylamide in Transition-Metal-Free Fischer-Tropsch Chemistry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 634-638	16.4	22
241	The power of trichlorosilylation: isolable trisilylated allyl anions, allyl radicals, and allenyl anions. <i>Chemical Science</i> , 2021 , 12, 12419-12428	9.4	0
240	Mechanistic Insights for Nitromethane Activation into Reactive Nitrogenating Reagents. <i>ChemCatChem</i> , 2021 , 13, 2132-2137	5.2	2
239	Ox-SLIM: Synthesis of and Site-Specific Labelling with a Highly Hydrophilic Trityl Spin Label. <i>Chemistry - A European Journal</i> , 2021 , 27, 5292-5297	4.8	13
238	Single-Point Hessian Calculations for Improved Vibrational Frequencies and Rigid-Rotor-Harmonic-Oscillator Thermodynamics. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 1701-1714	6.4	20
237	rSCAN-3c: A "Swiss army knife" composite electronic-structure method. <i>Journal of Chemical Physics</i> , 2021 , 154, 064103	3.9	65
236	rSCAN-D4: Dispersion corrected meta-generalized gradient approximation for general chemical applications. <i>Journal of Chemical Physics</i> , 2021 , 154, 061101	3.9	22
235	Mechanistic Insights for Acid-catalyzed Rearrangement of Quinoxalin-2-one with Diamine and Enamine. <i>ChemCatChem</i> , 2021 , 13, 1503-1508	5.2	2
234	High-Throughput Non-targeted Chemical Structure Identification Using Gas-Phase Infrared Spectra. <i>Analytical Chemistry</i> , 2021 , 93, 10688-10696	7.8	
233	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021 , 155, 084801	3.9	115
232	PCM-ROKS for the Description of Charge-Transfer States in Solution: Singlet-Triplet Gaps with Chemical Accuracy from Open-Shell Kohn-Sham Reaction-Field Calculations. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8470-8480	6.4	7

231	Calculation of improved enthalpy and entropy of vaporization by a modified partition function in quantum cluster equilibrium theory. <i>Journal of Chemical Physics</i> , 2021 , 155, 104101	3.9	1
230	Reactions of a Dilithiomethane with CO and N O: An Avenue to an Anionic Ketene and a Hexafunctionalized Benzene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25281-25285	16.4	4
229	Assessing Density Functional Theory for Chemically Relevant Open-Shell Transition Metal Reactions. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6134-6151	6.4	19
228	Steric Influence on Reactions of Benzyl Potassium Species with CO. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3640-3644	4.5	1
227	All-Atom Quantum Mechanical Calculation of the Second-Harmonic Generation of Fluorescent Proteins. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9684-9690	6.4	2
226	Hydrogenation of Secondary Amides using Phosphane Oxide and Frustrated Lewis Pair Catalysis. <i>Chemistry - A European Journal</i> , 2021 , 27, 14179-14183	4.8	5
225	Quantum Chemical Calculation and Evaluation of Partition Coefficients for Classical and Emerging Environmentally Relevant Organic Compounds.. <i>Environmental Science & Technology</i> , 2021 ,	10.3	2
224	Designing a Solution-Stable Distannene: The Decisive Role of London Dispersion Effects in the Structure and Properties of {Sn(CH ₂ 4,6-Cy)} (Cy = Cyclohexyl).. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21478-21483	16.4	2
223	Robust Atomistic Modeling of Materials, Organometallic, and Biochemical Systems. <i>Angewandte Chemie</i> , 2020 , 132, 15795-15803	3.6	20
222	The first microsolvation step for furans: New experiments and benchmarking strategies. <i>Journal of Chemical Physics</i> , 2020 , 152, 164303	3.9	14
221	Building up Strain in One Step: Synthesis of an Edge-Fused Double Silacyclobutene from an Extensively Trichlorosilylated Butadiene Dianion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16181-16187	16.4	3
220	BNB-Doped Phenalenyls: Modular Synthesis, Optoelectronic Properties, and One-Electron Reduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11072-11083	16.4	28
219	Building up Strain in One Step: Synthesis of an Edge-Fused Double Silacyclobutene from an Extensively Trichlorosilylated Butadiene Dianion. <i>Angewandte Chemie</i> , 2020 , 132, 16315-16321	3.6	1
218	Dynamic Structural Effects on the Second-Harmonic Generation of Tryptophane-Rich Peptides and Gramicidin A. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2568-2578	3.4	8
217	Extension and evaluation of the D4 London-dispersion model for periodic systems. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8499-8512	3.6	42
216	DFTB+, a software package for efficient approximate density functional theory based atomistic simulations. <i>Journal of Chemical Physics</i> , 2020 , 152, 124101	3.9	210
215	Fast and Accurate Quantum Chemical Modeling of Infrared Spectra of Condensed-Phase Systems. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6664-6670	3.4	10
214	Räktitelbild: Heterobifunctional Rotaxanes for Asymmetric Catalysis (Angew. Chem. 13/2020). <i>Angewandte Chemie</i> , 2020 , 132, 5446-5446	3.6	

213	Semiautomated Transition State Localization for Organometallic Complexes with Semiempirical Quantum Chemical Methods. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2002-2012	6.4	32
212	Quantum Chemical Calculation of Molecular and Periodic Peptide and Protein Structures. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3636-3646	3.4	17
211	Exploration of the Solid-State Sorption Properties of Shape-Persistent Macrocyclic Nanocarbons as Bulk Materials and Small Aggregates. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8763-8775	16.4	39
210	Robust Atomistic Modeling of Materials, Organometallic, and Biochemical Systems. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15665-15673	16.4	93
209	Automated exploration of the low-energy chemical space with fast quantum chemical methods. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7169-7192	3.6	327
208	Influencing the Self-Sorting Behavior of [2.2]Paracyclophane-Based Ligands by Introducing Isostructural Binding Motifs. <i>Chemistry - A European Journal</i> , 2020 , 26, 3335-3347	4.8	9
207	Heterobifunctional Rotaxanes for Asymmetric Catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 5140-5145	3.6	9
206	Heterobifunctional Rotaxanes for Asymmetric Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5102-5107	16.4	28
205	Comprehensive Assessment of GFN Tight-Binding and Composite Density Functional Theory Methods for Calculating Gas-Phase Infrared Spectra. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7044-7060	6.4	12
204	Mechanistic Insights for Aniline-Catalyzed Halogenation Reactions. <i>ChemCatChem</i> , 2020 , 12, 5369-5373	5.2	1
203	Efficient Calculation of Small Molecule Binding in Metal-Organic Frameworks and Porous Organic Cages. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27529-27541	3.8	13
202	A Unified Strategy for the Chemically Intuitive Interpretation of Molecular Optical Response Properties. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7709-7720	6.4	5
201	Benchmark Study of Electrochemical Redox Potentials Calculated with Semiempirical and DFT Methods. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7166-7176	2.8	15
200	Efficient Computation of Free Energy Contributions for Association Reactions of Large Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6606-6611	6.4	27
199	Modeling of spin-spin distance distributions for nitroxide labeled biomacromolecules. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 24282-24290	3.6	16
198	Mechanistic Insights for Iodane Mediated Aromatic Halogenation Reactions. <i>ChemCatChem</i> , 2020 , 12, 6186-6190	5.2	1
197	Simplified time-dependent density functional theory (sTD-DFT) for molecular optical rotation. <i>Journal of Chemical Physics</i> , 2020 , 153, 084116	3.9	10
196	Frustrated Lewis Pair Catalyzed Reduction of Carbon Dioxide Using Hydroboranes: New DFT Mechanistic Insights. <i>ChemCatChem</i> , 2020 , 12, 3656-3660	5.2	6

195	Calculation of Electron Ionization Mass Spectra with Semiempirical GFNn-xTB Methods. <i>ACS Omega</i> , 2019 , 4, 15120-15133	3.9	17
194	Folding of unstructured peptoids and formation of hetero-bimetallic peptoid complexes upon side-chain-to-metal coordination. <i>Chemical Science</i> , 2019 , 10, 620-632	9.4	18
193	Synthesis of μ -Oxo-Bridged Iron(III) Tetraphenylporphyrin-Spacer-Nitroxide Dimers and their Structural and Dynamics Characterization by using EPR and MD Simulations. <i>Chemistry - A European Journal</i> , 2019 , 25, 2586-2596	4.8	9
192	TEMPO-Mediated Catalysis of the Sterically Hindered Hydrogen Atom Transfer Reaction between (CPh)Cr(CO)H and a Trityl Radical. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1882-1886	16.4	16
191	A Simplified Spin-Flip Time-Dependent Density Functional Theory Approach for the Electronic Excitation Spectra of Very Large Diradicals. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5815-5825	2.8	9
190	Structure Optimisation of Large Transition-Metal Complexes with Extended Tight-Binding Methods. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11078-11087	16.4	38
189	Structure Optimisation of Large Transition-Metal Complexes with Extended Tight-Binding Methods. <i>Angewandte Chemie</i> , 2019 , 131, 11195-11204	3.6	13
188	Structural and Conformational Studies on Carboxamides of 5,6-Diaminouracils-Precursors of Biologically Active Xanthine Derivatives. <i>Molecules</i> , 2019 , 24,	4.8	1
187	Borane-Catalyzed Hydrogenation of Tertiary Amides Activated by Oxalyl Chloride: DFT Mechanistic Insights. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4609-4612	3.2	5
186	Exploring the chemical nature of super-heavy main-group elements by means of efficient plane-wave density-functional theory. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18048-18058	3.6	15
185	Pulsed EPR Dipolar Spectroscopy under the Breakdown of the High-Field Approximation: The High-Spin Iron(III) Case. <i>Chemistry - A European Journal</i> , 2019 , 25, 8820-8828	4.8	8
184	A generally applicable atomic-charge dependent London dispersion correction. <i>Journal of Chemical Physics</i> , 2019 , 150, 154122	3.9	300
183	Cooperative Organocatalysis: A Systematic Investigation of Covalently Linked Organophosphoric Acids for the Stereoselective Transfer Hydrogenation of Quinolines. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 5190-5195	3.2	6
182	Nonlinear-response properties in a simplified time-dependent density functional theory (sTD-DFT) framework: Evaluation of excited-state absorption spectra. <i>Journal of Chemical Physics</i> , 2019 , 150, 094112	3.9	15
181	Fast Quantum Chemical Simulations of Infrared Spectra of Organic Compounds with the B97-3c Composite Method. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 3802-3808	2.8	13
180	Exploration of Chemical Compound, Conformer, and Reaction Space with Meta-Dynamics Simulations Based on Tight-Binding Quantum Chemical Calculations. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 2847-2862	6.4	240
179	The Chiral Trimer and a Metastable Chiral Dimer of Achiral Hexafluoroisopropanol: A Multi-Messenger Study. <i>Angewandte Chemie</i> , 2019 , 131, 5134-5138	3.6	15
178	GFN2-xTB-An Accurate and Broadly Parametrized Self-Consistent Tight-Binding Quantum Chemical Method with Multipole Electrostatics and Density-Dependent Dispersion Contributions. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1652-1671	6.4	717

177	Extension of the element parameter set for ultra-fast excitation spectra calculation (sTDA-xTB). <i>Molecular Physics</i> , 2019 , 117, 1104-1116	1.7	3
176	Isolation and Computational Studies of a Series of Terphenyl Substituted Diplumbynes with Ligand Dependent Lead-Lead Multiple-Bonding Character. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14370-14383	16.4	12
175	Pulsed EPR Dipolar Spectroscopy on Spin Pairs with one Highly Anisotropic Spin Center: The Low-Spin Fe Case. <i>Chemistry - A European Journal</i> , 2019 , 25, 14388-14398	4.8	14
174	Are Fully Conjugated Expanded Indenofluorenes Analogues and Diindeno[1,2-b]thiophene Derivatives Diradicals? A Simplified (Spin-Flip) Time-Dependent Density Functional Theory [(SF)-sTD-DFT] Study. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9828-9839	2.8	5
173	Boron Lewis Acid-Catalyzed Regioselective Hydrothiolation of Conjugated Dienes with Thiols. <i>ACS Catalysis</i> , 2019 , 9, 11627-11633	13.1	11
172	Catalytic Difunctionalization of Unactivated Alkenes with Unreactive Hexamethyldisilane through Regeneration of Silylium Ions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17307-17311	16.4	18
171	Efficient structural and energetic screening of fullerene encapsulation in a large supramolecular double decker macrocycle. <i>Journal of the Serbian Chemical Society</i> , 2019 , 84, 837-844	0.9	8
170	Reduction of Phosphine Oxide by Using Chlorination Reagents and Dihydrogen: DFT Mechanistic Insights. <i>Chemistry - A European Journal</i> , 2019 , 25, 4670-4672	4.8	11
169	The Chiral Trimer and a Metastable Chiral Dimer of Achiral Hexafluoroisopropanol: A Multi-Messenger Study. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5080-5084	16.4	30
168	Understanding and Quantifying London Dispersion Effects in Organometallic Complexes. <i>Accounts of Chemical Research</i> , 2019 , 52, 258-266	24.3	69
167	Aggregation Behavior of a Six-Membered Cyclic Frustrated Phosphane/Borane Lewis Pair: Formation of a Supramolecular Cyclooctameric Macrocyclic Ring System. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 882-886	16.4	20
166	Frustrated Lewis Pair Catalyzed Hydrogenation of Amides: Halides as Active Lewis Base in the Metal-Free Hydrogen Activation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 159-162	16.4	44
165	Finding the best density functional approximation to describe interaction energies and structures of ionic liquids in molecular dynamics studies. <i>Journal of Chemical Physics</i> , 2018 , 148, 193835	3.9	23
164	Donor-acceptor interactions between cyclic trinuclear pyridinate gold(i)-complexes and electron-poor guests: nature and energetics of guest-binding and templating on graphite. <i>Chemical Science</i> , 2018 , 9, 3477-3483	9.4	15
163	Solid state frustrated Lewis pair chemistry. <i>Chemical Science</i> , 2018 , 9, 4859-4865	9.4	24
162	B97-3c: A revised low-cost variant of the B97-D density functional method. <i>Journal of Chemical Physics</i> , 2018 , 148, 064104	3.9	221
161	The furan microsolvation blind challenge for quantum chemical methods: First steps. <i>Journal of Chemical Physics</i> , 2018 , 148, 014301	3.9	34
160	Comprehensive Thermochemical Benchmark Set of Realistic Closed-Shell Metal Organic Reactions. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 2596-2608	6.4	122

159	Counterintuitive Interligand Angles in the Diaryls E{C ₆ H ₃ -2,6-(C ₆ H ₂ -2,4,6-iPr ₃) ₂ } ₂ (E = Ge, Sn, or Pb) and Related Species: The Role of London Dispersion Forces. <i>Organometallics</i> , 2018 , 37, 2075-2085	3.8	18
158	A diuranium carbide cluster stabilized inside a C fullerene cage. <i>Nature Communications</i> , 2018 , 9, 2753	17.4	47
157	Exhaustively Trichlorosilylated C and C Building Blocks: Beyond the Müller-Rochow Direct Process. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9696-9708	16.4	12
156	Nonlinear-response properties in a simplified time-dependent density functional theory (sTD-DFT) framework: Evaluation of the first hyperpolarizability. <i>Journal of Chemical Physics</i> , 2018 , 149, 024108	3.9	28
155	Electrophilic Formylation of Arenes by Silylium Ion Mediated Activation of Carbon Monoxide. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8301-8305	16.4	28
154	High accuracy quantum-chemistry-based calculation and blind prediction of macroscopic pK _a values in the context of the SAMPL6 challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2018 , 32, 1139-1149	4.2	31
153	Synthesis of 1,3-Amino Alcohols by Hydroxy-Directed Aziridination and Aziridine Hydrosilylation. <i>Angewandte Chemie</i> , 2018 , 130, 13716-13720	3.6	3
152	Synthesis of 1,3-Amino Alcohols by Hydroxy-Directed Aziridination and Aziridine Hydrosilylation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13528-13532	16.4	13
151	Formation of macrocyclic ring systems by carbonylation of trifunctional P/B/B frustrated Lewis pairs. <i>Chemical Science</i> , 2018 , 9, 1544-1550	9.4	25
150	Computational Chemistry: The Fate of Current Methods and Future Challenges. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4170-4176	16.4	85
149	Raising the Bar in Aromatic Donor-Acceptor Interactions with Cyclic Trinuclear Gold(I) Complexes as Strong π -Donors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17932-17944	16.4	29
148	Electrophilic Phosphonium Cation-Mediated Phosphane Oxide Reduction Using Oxalyl Chloride and Hydrogen. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15253-15256	16.4	20
147	Borane-Catalyzed Synthesis of Quinolines Bearing Tetrasubstituted Stereocenters by Hydride Abstraction-Induced Electrocyclization. <i>Chemistry - A European Journal</i> , 2018 , 24, 16287-16291	4.8	35
146	Towards full Quantum-Mechanics-based Protein-Ligand Binding Affinities. <i>ChemPhysChem</i> , 2017 , 18, 898-905	3.2	35
145	Benzimidazolylquinoxalines: novel fluorophores with tuneable sensitivity to solvent effects. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6095-6104	3.6	10
144	Intermolecular Redox-Neutral Amine C-H Functionalization Induced by the Strong Boron Lewis Acid B(C ₆ F ₅) ₃ in the Frustrated Lewis Pair Regime. <i>Chemistry - A European Journal</i> , 2017 , 23, 4723-4729	4.8	23
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