

Henry F Schaefer

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.

1,004
papers

50,170
citations

103
h-index

188
g-index

1,026
ext. papers

52,901
ext. citations

4.6
avg, IF

7.41
L-index

#	Paper	IF	Citations
1004	Fermi.jl: A Modern Design for Quantum Chemistry.. <i>Journal of Chemical Theory and Computation</i> , 2022 ,	6.4	3
1003	Hydrogen bonding as a probe of electron density Variations: Substituted pyridines. <i>Chemical Physics Letters</i> , 2022 , 791, 139378	2.5	1
1002	A Cationic Magnesium-Based Dithiolene Radical. <i>Organometallics</i> , 2022 , 41, 527-531	3.8	
1001	An Undergraduate Chemistry Lab Exploring Computational Cost and Accuracy: Methane Combustion Energy. <i>Journal of Chemical Education</i> , 2022 , 99, 1479-1487	2.4	
1000	Mini-Review on Structure-Reactivity Relationship for Aromatic Molecules: Recent Advances.. <i>ACS Omega</i> , 2022 , 7, 8199-8208	3.9	0
999	Cumulants as the variables of density cumulant theory: A path to Hermitian triples.. <i>Journal of Chemical Physics</i> , 2021 , 155, 244105	3.9	
998	Substituent Effects on Alumanyl Anions and Derived Systems: A High-Level Theory. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 10379-10391	2.8	1
997	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
996	Potential energy profile for the Cl + (HO) -HCl + (HO)OH reaction. A CCSD(T) study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26837-26842	3.6	1
995	Kinetic Stability of Pentazole. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 9092-9098	2.8	0
994	Contrasting the Mechanism of H Activation by Monomeric and Potassium-Stabilized Dimeric Al Complexes: Do Potassium Atoms Exert any Cooperative Effect?. <i>Chemistry - A European Journal</i> , 2021 , 27, 17369-17378	4.8	2
993	Binuclear Cobalt Paddlewheel-Type Complexes: Relating Metal-Metal Bond Lengths to Formal Bond Orders. <i>Inorganic Chemistry</i> , 2021 , 60, 584-596	5.1	2
992	Heteroatom (N, P, As, Sb, Bi) Effects on the Resonance-Stabilized 2-, 3-, and 4-Picolyl Radicals. <i>Inorganic Chemistry</i> , 2021 , 60, 5860-5867	5.1	1
991	Arbitrary-Order Derivatives of Quantum Chemical Methods via Automatic Differentiation. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3232-3239	6.4	8
990	Highly Strained Pn(CH) (Pn = N, P, As, Sb, Bi) Tetrahedranes: Theoretical Characterization. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2612-2621	2.8	1
989	Carbonylic-Carbon-Centered Mechanism for Catalytic β Methylation. <i>Organometallics</i> , 2021 , 40, 2420-2429	3.8	2
988	Automated theoretical chemical kinetics: Predicting the kinetics for the initial stages of pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 375-384	5.9	7

987	Reaction mechanisms of a cyclic ether intermediate: Ethyloxirane. <i>International Journal of Chemical Kinetics</i> , 2021 , 53, 43-59	1.4	6
986	Isomer-dependent reaction mechanisms of cyclic ether intermediates: cis-2,3-dimethyloxirane and trans-2,3-dimethyloxirane. <i>International Journal of Chemical Kinetics</i> , 2021 , 53, 127-145	1.4	6
985	Coupled Cluster Externally Corrected by Adaptive Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 182-190	6.4	7
984	The HOX ⁺ SO (X=F, Cl, Br, I) Binary Complexes: Implications for Atmospheric Chemistry. <i>ChemPhysChem</i> , 2021 , 22, 112-126	3.2	
983	Fluorine Migration from Carbon to Iron and Fluorine-Iron Dative Bonds in Octafluorocyclohexadiene Iron Carbonyl Chemistry. <i>Organometallics</i> , 2021 , 40, 397-407	3.8	1
982	Catalyzed reaction of isocyanates (RNCO) with water. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18535-18546	3.5	16
981	Synthesis of Methanesulfonic Acid Directly from Methane: The Cation Mechanism or the Radical Mechanism?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6486-6491	6.4	0
980	Lantern-Type Divanadium Complexes with Bridging Ligands: Short Metal-Metal Bonds with High Multiple Bond Orders. <i>ChemPhysChem</i> , 2021 , 22, 2014-2024	3.2	1
979	Group 15 and 16 Nitrene-Like Pnictinidenes. <i>Chemistry - A European Journal</i> , 2021 , 27, 14461-14471	4.8	1
978	Carbene-Stabilized Dithiolene (L0) Zwitterions. <i>Angewandte Chemie</i> , 2021 , 133, 22888	3.6	
977	Carbene-Stabilized Dithiolene (L) Zwitterions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22706-22710	6.2	10
976	Energetics and kinetics of various cyano radical hydrogen abstractions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3389-3400	3.6	1
975	Carbene-mediated synthesis of a germanium tris(dithiolene)dianion. <i>Chemical Communications</i> , 2021 , 57, 2543-2546	5.8	2
974	Assessing the orbital-optimized unitary Ansatz for density cumulant theory. <i>Journal of Chemical Physics</i> , 2020 , 153, 244102	3.9	2
973	Carbene-Stabilized Disilicon as a Silicon-Transfer Agent: Synthesis of a Dianionic Silicon Tris(dithiolene) Complex. <i>Angewandte Chemie</i> , 2020 , 132, 8949-8952	3.6	2
972	C5 Metalation of Imidazole-Based Monothiolates en Route to Selenothiolates. <i>Organometallics</i> , 2020 , 39, 4178-4182	3.8	1
971	Psi4 1.4: Open-source software for high-throughput quantum chemistry. <i>Journal of Chemical Physics</i> , 2020 , 152, 184108	3.9	158
970	Binding modes of cabazitaxel with the different human β -tubulin isotypes: DFT and MD studies. <i>Journal of Molecular Modeling</i> , 2020 , 26, 162	2	5

969	Unusual Structures of the Parent Molecules Diarsene, Distibene, and Dibismuthene: Toward Their Observation. <i>Chemistry - A European Journal</i> , 2020 , 26, 14159-14166	4.8	1
968	Unusual effects of the bulky 1-norbornyl group in cobalt carbonyl chemistry: low-energy structures with agostic hydrogen atoms. <i>New Journal of Chemistry</i> , 2020 , 44, 8986-8995	3.6	
967	Carbene-Stabilized Disilicon as a Silicon-Transfer Agent: Synthesis of a Dianionic Silicon Tris(dithiolene) Complex. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8864-8867	16.4	10
966	Reduction of Dinitrogen via 2,3'-Bipyridine-Mediated Tetraboration. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6244-6250	16.4	12
965	Perfluoroolefin complexes versus perfluorometallacycles and perfluorocarbene complexes in cyclopentadienylcobalt chemistry. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7616-7624	3.6	1
964	Energetics and mechanisms for the acetonyl radical + O reaction: An important system for atmospheric and combustion chemistry. <i>Journal of Chemical Physics</i> , 2020 , 152, 114301	3.9	4
963	Increasing the Ligand Field Strength in Butadiene Open Sandwich Compounds from the First to the Second Row Transition Metals. <i>ChemistrySelect</i> , 2020 , 5, 6350-6359	1.8	
962	Substituted -Benzynes: Properties of the Triple Bond. <i>Journal of Organic Chemistry</i> , 2020 , 85, 9905-9914	4.2	2
961	Conclusive determination of ethynyl radical hydrogen abstraction energetics and kinetics*. <i>Molecular Physics</i> , 2020 , 118, e1769214	1.7	5
960	Formation of Formic Acid Derivatives through Activation and Hydroboration of CO by Low-Valent Group 14 (Si, Ge, Sn, Pb) Catalysts. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1121-1133	2.8	10
959	Assessing the Viability of the Methylsulfinyl Radical-Ozone Reaction. <i>ChemPhysChem</i> , 2020 , 21, 1289-1294	3.4	1
958	Is silver a mere terminal oxidant in palladium catalyzed C-H bond activation reactions?. <i>Chemical Science</i> , 2020 , 11, 208-216	9.4	29
957	Sulfurous and sulfonic acids: Predicting the infrared spectrum and setting the surface straight. <i>Journal of Chemical Physics</i> , 2020 , 152, 024302	3.9	4
956	A Stable Naked Dithiolene Radical Anion and Synergic THF Ring-Opening. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17301-17305	16.4	6
955	Agostic Hydrogens in 1-Norbornyl Metal Cyclopentadienyl Structures. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 4180-4188	2.3	
954	Dibridged, Monobridged, Vinylidene-Like, and Linear Structures for the Alkaline Earth Dihydrides BeH, MgH, CaH, SrH, and BaH. Proposals for Observations. <i>Inorganic Chemistry</i> , 2020 , 59, 10404-10408	5.1	2
953	Comparative Study of the Thermal Stabilities of the Experimentally Known High-Valent Fe(IV) Compounds Fe(1-norbornyl) and Fe(cyclohexyl). <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6867-6876	2.8	2
952	High level investigation of the catalytic effect of water on formic acid decomposition and isomerization. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 25638-25651	3.6	2

951	The atmospheric importance of methylamine additions to Criegee intermediates. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22555-22566	3.6	1
950	Reduced Density Matrix Cumulants: The Combinatorics of Size-Consistency and Generalized Normal Ordering. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6150-6164	6.4	6
949	Vibrational analysis of the ubiquitous interstellar molecule cyclopropenylidene (c-C ₃ H ₂): the importance of numerical stability. <i>Molecular Physics</i> , 2020 , 118, e1589007	1.7	4
948	The water trimer reaction OH + (HO) ₂ + HO. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9767-9774	3.7	0
947	Riddles of the structure and vibrational dynamics of HO resolved near the ab initio limit. <i>Journal of Chemical Physics</i> , 2019 , 151, 094304	3.9	8
946	PES-Learn: An Open-Source Software Package for the Automated Generation of Machine Learning Models of Molecular Potential Energy Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4386-4398	6.4	26
945	Tris(butadiene) Metal Complexes of the First-Row Transition Metals versus Coupling of Butadiene to Eight- and Twelve-Carbon Hydrocarbon Chains. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5542-5554	2.8	2
944	Substituent effects on the aromaticity of benzene-An approach based on interaction coordinates. <i>Journal of Chemical Physics</i> , 2019 , 150, 214108	3.9	5
943	Lewis base-complexed magnesium dithiolenes. <i>Chemical Communications</i> , 2019 , 55, 8087-8089	5.8	9
942	tert-Butyl peroxy radical: ground and first excited state energetics and fundamental frequencies. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9747-9758	3.6	4
941	Convergent energies and anharmonic vibrational spectra of CaH and CaH constitutional isomers. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10914-10922	3.6	3
940	Designing new Togni reagents by computation. <i>Chemical Communications</i> , 2019 , 55, 5667-5670	5.8	7
939	Higher spin states in some low-energy bis(tetramethyl-1,2-diaza-3,5-diboroly) sandwich compounds of the first row transition metals: boraza analogues of the metallocenes. <i>New Journal of Chemistry</i> , 2019 , 43, 4497-4505	3.6	1
938	Multi-fidelity Gaussian process modeling for chemical energy surfaces. <i>Chemical Physics Letters: X</i> , 2019 , 3, 100022	2	9
937	Ethyl + O in Helium Nanodroplets: Infrared Spectroscopy of the Ethylperoxy Radical. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 3558-3568	2.8	12
936	Alternative modes of bonding of C ₄ F ₈ units in mononuclear and binuclear iron carbonyl complexes. <i>New Journal of Chemistry</i> , 2019 , 43, 6932-6942	3.6	1
935	Cyclobutynes: Minimum or Transition State?. <i>Journal of Organic Chemistry</i> , 2019 , 84, 5548-5553	4.2	3
934	Redox chemistry of an anionic dithiolene radical. <i>Dalton Transactions</i> , 2019 , 48, 3543-3546	4.3	9

- 933 Decomposition of the electronic activity in competing [5,6] and [6,6] cycloaddition reactions between C and cyclopentadiene. *Physical Chemistry Chemical Physics*, **2019**, 21, 5039-5048 3.6 7
- 932 A remarkable case of basis set dependence: the false convergence patterns of the methyl anion**
A contribution to the Special Issue in Memory of Professor Dieter Cremer. View all notes. *Molecular Physics*, **2019**, 117, 1069-1077 1.7 3
- 931 The addition of methanol to Criegee intermediates. *Physical Chemistry Chemical Physics*, **2019**, 21, 17760-17771 3.1 8
- 930 Unsaturation in binuclear iron carbonyl complexes of the split (3 + 2) five-electron donor hydrocarbon ligand bicyclo[3.2.1]octa-2,6-dien-4-yl: Role of agostic hydrogen atoms. *International Journal of Quantum Chemistry*, **2019**, 119, e26010 2.1
- 929 Janus: An Extensible Open-Source Software Package for Adaptive QM/MM Methods. *Journal of Chemical Theory and Computation*, **2019**, 15, 4362-4373 6.4 4
- 928 Dispersion Effects in Stabilizing Organometallic Compounds: Tetra-1-norbornyl Derivatives of the First-Row Transition Metals as Exceptional Examples. *Journal of Physical Chemistry A*, **2019**, 123, 9514-9519 2.8 6
- 927 Characterization of the 2-methylvinoxy radical + O reaction: A focal point analysis and composite multireference study. *Journal of Chemical Physics*, **2019**, 151, 124302 3.9 8
- 926 Unusual π -Coordinated Alkyne and Alkene Complexes. *Chemistry - A European Journal*, **2019**, 25, 15628-15633 4.3 4
- 925 π -Hydrogen Bonding Probes Chemical Reactivity: Bromination of a CC Double Bond and Electrophilic Aromatic Benzoylation. *ChemistrySelect*, **2019**, 4, 10934-10942 1.8 0
- 924 A comparison between hydrogen and halogen bonding: the hypohalous acid-water dimers, HOXHO (X = F, Cl, Br). *Physical Chemistry Chemical Physics*, **2019**, 21, 6160-6170 3.6 22
- 923 Important features of the potential energy surface of the methylamine plus O(D) reaction. *Physical Chemistry Chemical Physics*, **2019**, 21, 24194-24205 3.6 2
- 922 Relatives of cyanomethylene: replacement of the divalent carbon by B, N, Al, Si, P, Ga, Ge, and As. *Physical Chemistry Chemical Physics*, **2019**, 21, 26438-26452 3.6 2
- 921 Labile Imidazolium Cyclopentadienides. *Organometallics*, **2019**, 38, 4578-4584 3.8 4
- 920 The Nature of Lithium Bonding in C₂H₂Li₂, C₆Li₆, and Lithium Halide Dimers. *Organometallics*, **2019**, 38, 4708-4716 3.8 0
- 919 The conformational preferences of polychlorocyclohexanes. *New Journal of Chemistry*, **2019**, 43, 18546-18558 3.5 1
- 918 Stabilizing Borinium Cations [X-B-X] through Conjugation and Hyperconjugation Effects. *Inorganic Chemistry*, **2019**, 58, 243-249 5.1 1
- 917 π -Hydrogen Bonding Probes the Reactivity of Aromatic Compounds: Nitration of Substituted Benzenes. *Journal of Physical Chemistry A*, **2019**, 123, 1069-1076 2.8 5
- 916 Hydrogen Abstraction Reaction HSe + OH \rightarrow H₂O + SeH: Comparison with the Analogous Hydrogen Sulfide and Water Reactions. *Inorganic Chemistry*, **2019**, 58, 2069-2079 5.1 1

915	The reaction of alkyl hydropersulfides (RSSH, R = CH and Bu) with HS in the gas phase and in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 537-545	3.6	2
914	Re-examining ammonia addition to the Criegee intermediate: converging to chemical accuracy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7479-7491	3.6	28
913	Carbon-Hydrogen Activation in Zerovalent Bis(1,5-cyclooctadiene) Complexes of the First Row Transition Metals: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3280-3286	2.8	1
912	The multichannel n-propyl + O ₂ reaction surface: Definitive theory on a model hydrocarbon oxidation mechanism. <i>Journal of Chemical Physics</i> , 2018 , 148, 094303	3.9	11
911	Geometric Energy Derivatives at the Complete Basis Set Limit: Application to the Equilibrium Structure and Molecular Force Field of Formaldehyde. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1333-1350	6.4	25
910	Spin-Orbit Coupling via Four-Component Multireference Methods: Benchmarking on p-Block Elements and Tentative Recommendations. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1235-1246	6.4	6
909	The Structure and Cl-O Dissociation Energy of the CLOO Radical: Finally, the Right Answers for the Right Reason. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 2604-2610	2.8	4
908	CO ₂ Reduction Pathways on MnBr(N-C)(CO) ₃ Electrocatalysts. <i>Organometallics</i> , 2018 , 37, 337-342	3.8	16
907	Butadiene as a ligand in open sandwich compounds. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5683-5691	3.6	3
906	Alkali-Metal Trihalides: MX Ion Pair or MX-X Complex?. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 3339-3353	3.3	5
905	Conformers, properties, and docking mechanism of the anticancer drug docetaxel: DFT and molecular dynamics studies. <i>Journal of Computational Chemistry</i> , 2018 , 39, 889-900	3.5	8
904	Reinterpreting the infrared spectrum of H + HCN: Methylene amidogen radical and its coproducts. <i>Journal of Chemical Physics</i> , 2018 , 148, 014305	3.9	5
903	Quantitative Theoretical Predictions and Qualitative Bonding Analysis of the Divinylborinium System and Its Al, Ga, In, and Tl Congeners. <i>Inorganic Chemistry</i> , 2018 , 57, 7851-7859	5.1	1
902	Quantification of Aromaticity of Heterocyclic Systems Using Interaction Coordinates. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 6953-6960	2.8	16
901	Prototypical Transition-Metal Carbenes, (CO)Cr η^5 CH, (CO)Fe η^5 CH, (CO)Ni η^5 CH, (CO)Mo η^5 CH, (CO)Ru η^5 CH, (CO)Pd η^5 CH, (CO)W η^5 CH, (CO)Os η^5 CH, and (CO)Pt η^5 CH: Challenge to Experiment. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 6570-6577	2.8	2
900	Metal-Substrate Cooperation Mechanism for Dehydrogenative Amidation Catalyzed by a PNN-Ru Catalyst. <i>Inorganic Chemistry</i> , 2018 , 57, 8778-8787	5.1	15
899	Student-Friendly Guide to Molecular Integrals. <i>Journal of Chemical Education</i> , 2018 , 95, 1572-1578	2.4	0
898	Stable Boron Dithiolene Radicals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7865-7868	16.4	17

897	Using an iterative eigensolver and intertwined rank reduction to compute vibrational spectra of molecules with more than a dozen atoms: Uracil and naphthalene. <i>Journal of Chemical Physics</i> , 2018 , 149, 064108	3.9	20
896	Astrophysical sulfur in diffuse and dark clouds: The fundamental vibrational frequencies and spectroscopic constants of hydrogen sulfide cation (H ₂ S ⁺). <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 3483-3490	4.3	5
895	The bismuth tetramer Bi ₄ : the key to experimental observation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 21881-21889	3.6	2
894	Hyperconjugative effects in hydrogen bonding: Theory and experiment. <i>Journal of Computational Chemistry</i> , 2018 , 39, 527-534	3.5	4
893	The non-covalently bound SOHO system, including an interpretation of the differences between SOHO and OHO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28840-28847	3.6	3
892	Mechanisms of the Ethynyl Radical Reaction with Molecular Oxygen. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9498-9511	2.8	4
891	Metal-Metal (MM) Bond Distances and Bond Orders in Binuclear Metal Complexes of the First Row Transition Metals Titanium Through Zinc. <i>Chemical Reviews</i> , 2018 , 118, 11626-11706	68.1	69
890	Fundamental Vibrational Analyses of the HCN Monomer, Dimer and Associated Isotopologues. <i>ChemPhysChem</i> , 2018 , 19, 3257	3.2	3
889	Reinterpretation of the electronic absorption spectrum of the methylene amidogen radical (HCN). <i>Journal of Chemical Physics</i> , 2018 , 149, 094302	3.9	1
888	Noncovalent Interactions between Molecular Hydrogen and the Alkali Fluorides: H-H...F-M (M = Li, Na, K, Rb, Cs). High Level Theoretical Predictions and SAPT Analysis. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 5118-5127	6.4	1
887	Psi4NumPy: An Interactive Quantum Chemistry Programming Environment for Reference Implementations and Rapid Development. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 3504-3511	6.4	72
886	Stable Boron Dithiolene Radicals. <i>Angewandte Chemie</i> , 2018 , 130, 7991-7994	3.6	5
885	High-level theoretical characterization of the vinoxy radical (CHCHO) + O reaction. <i>Journal of Chemical Physics</i> , 2018 , 148, 184308	3.9	14
884	Nucleophilic Influences and Origin of the S ₂ Allylic Effect. <i>Chemistry - A European Journal</i> , 2018 , 24, 11637-11648	3.7	1
883	Vibrational frequencies, structures, and energetics of the highly challenging alkali metal trifluorides MF (M = Li, Na, K, Rb, and Cs). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18986-18994	3.6	7
882	Prediction and Characterization of Alkaline-Earth (M=Be, Mg, Ca, Sr, and Ba) Metallocyclopentadienes and Relevant Derivatives. <i>ChemistrySelect</i> , 2017 , 2, 1442-1453	1.8	7
881	Thioformaldehyde S-Sulfide, Sulfur Analogue of the Criegee Intermediate: Structures, Energetics, and Rovibrational Analysis. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 998-1006	2.8	4
880	Structural Distortions Accompanying Noncovalent Interactions: Methane-Water, the Simplest C-H Hydrogen Bond. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1478-1485	6.4	9

- 879 A Stable Anionic Dithiolene Radical. *Journal of the American Chemical Society*, **2017**, 139, 6859-6862 16.4 35
- 878 Psi4 1.1: An Open-Source Electronic Structure Program Emphasizing Automation, Advanced Libraries, and Interoperability. *Journal of Chemical Theory and Computation*, **2017**, 13, 3185-3197 6.4 733
- 877 Positional selectivity in the interaction of toluene with nitronium ion. *Molecular Physics*, **2017**, 115, 2782-2788 2
- 876 The fate of the tert-butyl radical in low-temperature autoignition reactions. *Journal of Chemical Physics*, **2017**, 146, 194304 3.9 9
- 875 The water dimer reaction $\text{OH} + (\text{HO})_2 \rightarrow (\text{HO})_2\text{-OH} + \text{HO}$. *Physical Chemistry Chemical Physics*, **2017**, 19, 18279-18287 3.1 8287
- 874 Ethylperoxy radical: approaching spectroscopic accuracy via coupled-cluster theory. *Physical Chemistry Chemical Physics*, **2017**, 19, 15715-15723 3.6 3
- 873 Structures of dimetallocenes $\text{M}_2(\text{C}_5\text{H}_5)_2$ (M = Zn, Cu, Ni, Co, Fe) and their perfluorinated derivatives. *New Journal of Chemistry*, **2017**, 41, 5924-5933 3.6 1
- 872 Metal-metal bonding in biscycloheptatrienyl dimetal compounds of the second-row transition metals. *International Journal of Quantum Chemistry*, **2017**, 117, e25374 2.1
- 871 Phosgene at the complete basis set limit of CCSDT(Q): Molecular structure and rovibrational analysis. *Chemical Physics Letters*, **2017**, 683, 12-17 2.5 4
- 870 Applying a Smolyak collocation method to Cl_2CO . *Molecular Physics*, **2017**, 115, 1775-1785 1.7 13
- 869 Enhanced Relative Stability of Metallabenzenes versus Metallocenes upon Ring Perfluorination: Nickel, Palladium, and Platinum Systems. *European Journal of Inorganic Chemistry*, **2017**, 2017, 4714-4722 2.3 1
- 868 Facile Conversion of Bis-Silylene to Cyclic Silylene Isomers: Unexpected C-N and C-H Bond Cleavage. *Journal of the American Chemical Society*, **2017**, 139, 16109-16112 16.4 14
- 867 C-H...O Hydrogen Bonding. The Prototypical Methane-Formaldehyde System: A Critical Assessment. *Journal of Chemical Theory and Computation*, **2017**, 13, 5379-5395 6.4 14
- 866 Stabilizing a different cyclooctatetraene stereoisomer. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 9803-9808 11.5 17
- 865 Radicals derived from acetaldehyde and vinyl alcohol. *Physical Chemistry Chemical Physics*, **2017**, 19, 27235-27247 3.5 27247
- 864 Fast construction of the exchange operator in an atom-centred basis with concentric atomic density fitting. *Molecular Physics*, **2017**, 115, 2065-2076 1.7 5
- 863 Quantification of Hydrogen Bond Strength Based on Interaction Coordinates: A New Approach. *Journal of Physical Chemistry A*, **2017**, 121, 6090-6103 2.8 23
- 862 Analytic Energy Gradients for Variational Two-Electron Reduced-Density-Matrix-Driven Complete Active Space Self-Consistent Field Theory. *Journal of Chemical Theory and Computation*, **2017**, 13, 4113-4122 6.4 11

861	Binuclear Cyclopentadienylmetal Methylene Sulfur Dioxide Complexes of Rhodium and Iridium Related to a Photochromic Metal Dithionite Complex. <i>Inorganic Chemistry</i> , 2017 , 56, 14486-14493	5.1	2
860	A Twist of the Twist Mechanism, 2-Iodoxybenzoic Acid (IBX)-Mediated Oxidation of Alcohol Revisited: Theory and Experiment. <i>Organic Letters</i> , 2017 , 19, 6502-6505	6.2	29
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3	Theoretical methods and their application to ketenes and allenes ¹⁻⁴⁴		3
2	Subtle basis set effects on hydrogen bonded systems		1
1	Excited electronic states of carbon disulphide		2