

Christian Ochsenfeld

List of Publications by Citations

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188
papers

12,694
citations

52
h-index

110
g-index

208
ext. papers

14,418
ext. citations

7
avg. IF

6.39
L-index

#	Paper	IF	Citations
188	Advances in methods and algorithms in a modern quantum chemistry program package. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3172-91	3.6	2371
187	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015 , 113, 184-215	1.7	2068
186	A tunable azine covalent organic framework platform for visible light-induced hydrogen generation. <i>Nature Communications</i> , 2015 , 6, 8508	17.4	702
185	Q-Chem 2.0: a high-performance ab initio electronic structure program package. <i>Journal of Computational Chemistry</i> , 2000 , 21, 1532-1548	3.5	588
184	Linear and sublinear scaling formation of Hartree-Fock-type exchange matrices. <i>Journal of Chemical Physics</i> , 1998 , 109, 1663-1669	3.9	277
183	Exploiting Noncovalent Interactions in an Imine-Based Covalent Organic Framework for Quercetin Delivery. <i>Advanced Materials</i> , 2016 , 28, 8749-8754	24	224
182	H Evolution with Covalent Organic Framework Photocatalysts. <i>ACS Energy Letters</i> , 2018 , 3, 400-409	20.1	208
181	Single-Site Photocatalytic H Evolution from Covalent Organic Frameworks with Molecular Cobaloxime Co-Catalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16228-16234	16.4	195
180	Topochemical conversion of an imine- into a thiazole-linked covalent organic framework enabling real-time structure analysis. <i>Nature Communications</i> , 2018 , 9, 2600	17.4	138
179	Sustained Solar H Evolution from a Thiazolo[5,4-]thiazole-Bridged Covalent Organic Framework and Nickel-Thiolate Cluster in Water. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11082-11092	16.4	137
178	Tunable Water and CO ₂ Sorption Properties in Isostructural Azine-Based Covalent Organic Frameworks through Polarity Engineering. <i>Chemistry of Materials</i> , 2015 , 27, 7874-7881	9.6	136
177	Structure assignment in the solid state by the coupling of quantum chemical calculations with NMR experiments: a columnar hexabenzocoronene derivative. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2597-606	16.4	136
176	A combined experimental and theoretical study on the formation of interstellar C ₃ H isomers. <i>Science</i> , 1996 , 274, 1508-11	33.3	133
175	Linear-scaling atomic orbital-based second-order Møller-Plesset perturbation theory by rigorous integral screening criteria. <i>Journal of Chemical Physics</i> , 2009 , 130, 064107	3.9	122
174	Ab initio NMR spectra for molecular systems with a thousand and more atoms: a linear-scaling method. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4485-9	16.4	119
173	Benchmarking Hydrogen and Carbon NMR Chemical Shifts at HF, DFT, and MP2 Levels. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 572-8	6.4	118
172	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

171	Effects of terminal functional groups on the stability of the polyproline II structure: a combined experimental and theoretical study. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15474-82	16.4	108
170	A reformulation of the coupled perturbed self-consistent field equations entirely within a local atomic orbital density matrix-based scheme. <i>Chemical Physics Letters</i> , 1997 , 270, 399-405	2.5	104
169	Rigorous integral screening for electron correlation methods. <i>Journal of Chemical Physics</i> , 2005 , 123, 184102	3.9	103
168	A coupled-cluster ab initio study of triplet C ₃ H ₂ and the neutral-neutral reaction to interstellar C ₃ H. <i>Journal of Chemical Physics</i> , 1997 , 106, 4141-4151	3.9	102
167	Molecular tweezer and clip in aqueous solution: unexpected self-assembly, powerful host-guest complex formation, quantum chemical ¹ H NMR shift calculation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4831-41	16.4	100
166	Tailor-Made Photoconductive Pyrene-Based Covalent Organic Frameworks for Visible-Light Driven Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703278	21.8	100
165	The "azido gauche effect"-implications for the conformation of azidoproline. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14697-703	16.4	98
164	Convergence of Electronic Structure with the Size of the QM Region: Example of QM/MM NMR Shieldings. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2260-71	6.4	95
163	Tuning the cis/trans conformer ratio of Xaa-Pro amide bonds by intramolecular hydrogen bonds: the effect on PPII helix stability. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6324-7	16.4	94
162	Combined crossed molecular beams and abinitio investigation of the formation of carbon-bearing molecules in the interstellar medium via neutral-neutral reactions. <i>Faraday Discussions</i> , 1998 , 109, 183-204	3.6	91
161	Pre-selective screening for matrix elements in linear-scaling exact exchange calculations. <i>Journal of Chemical Physics</i> , 2013 , 138, 134114	3.9	86
160	A convergence study of QM/MM isomerization energies with the selected size of the QM region for peptidic systems. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11734-41	2.8	86
159	Structure and Dynamics of the Host-Guest Complex of a Molecular Tweezer: Coupling Synthesis, Solid-State NMR, and Quantum-Chemical Calculations. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 717-720	16.4	85
158	Locality and Sparsity of Ab Initio One-Particle Density Matrices and Localized Orbitals. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 2215-2222	2.8	83
157	Linear-scaling method for calculating nuclear magnetic resonance chemical shifts using gauge-including atomic orbitals within Hartree-Fock and density-functional theory. <i>Journal of Chemical Physics</i> , 2007 , 127, 054103	3.9	81
156	Crossed-beam reaction of carbon atoms with hydrocarbon molecules. III: Chemical dynamics of propynylidyne (l-C ₃ H;X 2J) and cyclopropynylidyne (c-C ₃ H;X 2B2) formation from reaction of C(3Pj) with acetylene, C ₂ H ₂ (X 1g+). <i>Journal of Chemical Physics</i> , 1997 , 106, 1729-1741	3.9	79
155	Linear-scaling self-consistent field methods for large molecules. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2013 , 3, 614-636	7.9	78
154	Structural Insights into Poly(Heptazine Imides): A Light-Storing Carbon Nitride Material for Dark Photocatalysis. <i>Chemistry of Materials</i> , 2019 , 31, 7478-7486	9.6	75

153	Preselective Screening for Linear-Scaling Exact Exchange-Gradient Calculations for Graphics Processing Units and General Strong-Scaling Massively Parallel Calculations. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 918-22	6.4	73
152	Deamination, oxidation, and C-C bond cleavage reactivity of 5-hydroxymethylcytosine, 5-formylcytosine, and 5-carboxycytosine. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14593-9	16.4	73
151	Linear scaling exchange gradients for Hartree-Fock and hybrid density functional theory. <i>Chemical Physics Letters</i> , 2000 , 327, 216-223	2.5	72
150	Tighter multipole-based integral estimates and parallel implementation of linear-scaling AO-MP2 theory. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3335-44	3.6	71
149	Helical packing of discotic hexaphenyl hexa-peri-hexabenzocoronenes: theory and experiment. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7481-7	3.4	71
148	Structure-property-activity relationships in a pyridine containing azine-linked covalent organic framework for photocatalytic hydrogen evolution. <i>Faraday Discussions</i> , 2017 , 201, 247-264	3.6	70
147	Ab initio studies of small sodium-sodium halide clusters, Na_nCl_n and $\text{Na}_n\text{Cl}_{n-1}$ ($n \leq 8$). <i>Journal of Chemical Physics</i> , 1992 , 97, 2553-2560	3.9	70
146	Linear-Scaling Methods in Quantum Chemistry. <i>Reviews in Computational Chemistry</i> , 2007 , 1-82		69
145	Multipole-based integral estimates for the rigorous description of distance dependence in two-electron integrals. <i>Journal of Chemical Physics</i> , 2005 , 123, 184101	3.9	65
144	Distance-dependent Schwarz-based integral estimates for two-electron integrals: reliable tightness vs. rigorous upper bounds. <i>Journal of Chemical Physics</i> , 2012 , 136, 144107	3.9	63
143	Efficient distance-including integral screening in linear-scaling Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2013 , 138, 014101	3.9	61
142	An ab initio investigation of clusters Na_nCl_n . <i>Journal of Chemical Physics</i> , 1992 , 97, 3487-3497	3.9	59
141	Ionothermal Synthesis of Imide-Linked Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15750-15758	16.4	57
140	Rational Design of Covalent Cobaloxime-Covalent Organic Framework Hybrids for Enhanced Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12146-12156	16.4	57
139	An atomic orbital-based reformulation of energy gradients in second-order Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2008 , 128, 154101	3.9	57
138	Computational Design and Synthesis of a Deeply Red-Shifted and Bistable Azobenzene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6538-6547	16.4	54
137	Communication: An effective linear-scaling atomic-orbital reformulation of the random-phase approximation using a contracted double-Laplace transformation. <i>Journal of Chemical Physics</i> , 2016 , 144, 031101	3.9	54
136	Influence of Coupling and Embedding Schemes on QM Size Convergence in QM/MM Approaches for the Example of a Proton Transfer in DNA. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1102-1107 ⁵²	6.4	52

135	A density matrix-based method for the linear-scaling calculation of dynamic second- and third-order properties at the Hartree-Fock and Kohn-Sham density functional theory levels. <i>Journal of Chemical Physics</i> , 2007 , 127, 204103	3.9	52
134	Selective complexation of N-alkylpyridinium salts: binding of NAD ⁺ in water. <i>Chemistry - A European Journal</i> , 2005 , 11, 477-94	4.8	52
133	A study of a molecular tweezer host-guest system by a combination of quantum-chemical calculations and solid-state NMR experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2002 , 22, 128-53	3.1	50
132	Cholesky-decomposed density MP2 with density fitting: accurate MP2 and double-hybrid DFT energies for large systems. <i>Journal of Chemical Physics</i> , 2014 , 140, 224112	3.9	48
131	Efficient linear-scaling calculation of response properties: density matrix-based Laplace-transformed coupled-perturbed self-consistent field theory. <i>Journal of Chemical Physics</i> , 2008 , 128, 221102	3.9	48
130	Structure of molecular tweezer complexes in the solid state: NMR experiments, X-ray investigations, and quantum chemical calculations. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1293-303	16.4	48
129	Molecular tweezers with varying anions: a comparative study. <i>Journal of Organic Chemistry</i> , 2013 , 78, 6721-34	4.2	47
128	An arginine switch in the species B adenovirus knob determines high-affinity engagement of cellular receptor CD46. <i>Journal of Virology</i> , 2009 , 83, 673-86	6.6	47
127	Cholesky-decomposed densities in Laplace-based second-order Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2009 , 130, 204112	3.9	46
126	Hybrid CPU/GPU Integral Engine for Strong-Scaling Ab Initio Methods. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3153-3159	6.4	45
125	An ab initio treatment of the electronic absorption spectra of excess-electron alkali halide clusters $\text{Na}_{n+1}\text{Cl}_n$ up to $\text{Na}_{18}\text{Cl}_{17}$. <i>Journal of Chemical Physics</i> , 1995 , 103, 7401-7407	3.9	45
124	Molecular Insights into Carbon Dioxide Sorption in Hydrazone-Based Covalent Organic Frameworks with Tertiary Amine Moieties. <i>Chemistry of Materials</i> , 2019 , 31, 1946-1955	9.6	44
123	An ab initio investigation of structure and energetics of clusters K_nCl_n and Li_nF_n . <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 34-47		42
122	An ab initio study of the relation between NMR chemical shifts and solid-state structures: hexabenzocoronene derivatives. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 2153-2159	3.6	41
121	Sub-stoichiometric 2D covalent organic frameworks from tri- and tetratopic linkers. <i>Nature Communications</i> , 2019 , 10, 2689	17.4	40
120	Nuclei-selected NMR shielding calculations: a sublinear-scaling quantum-chemical method. <i>Journal of Chemical Physics</i> , 2011 , 134, 074102	3.9	40
119	Excess-electron alkali halide clusters $\text{K}_{n+1}\text{Cl}_n$ and $\text{Li}_{n+1}\text{F}_n$: A theoretical study. <i>Journal of Chemical Physics</i> , 1994 , 101, 5977-5986	3.9	40
118	A Linear-Scaling MP2 Method for Large Molecules by Rigorous Integral-Screening Criteria. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010 , 224, 397-412	3.1	39

117	Ribose-protonated DNA base excision repair: a combined theoretical and experimental study. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10044-8	16.4	34
116	Importance of dipole moments and ambient polarity for the conformation of Xaa-Pro moieties - a combined experimental and theoretical study. <i>Chemical Science</i> , 2015 , 6, 6725-6730	9.4	34
115	Linear-scaling Cholesky decomposition. <i>Journal of Computational Chemistry</i> , 2008 , 29, 1004-10	3.5	34
114	Vanishing-Overhead Linear-Scaling Random Phase Approximation by Cholesky Decomposition and an Attenuated Coulomb-Metric. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1647-1655	6.4	32
113	Communication: A reduced scaling J-engine based reformulation of SOS-MP2 using graphics processing units. <i>Journal of Chemical Physics</i> , 2014 , 141, 051106	3.9	32
112	The formation of HCS and HCSH molecules and their role in the collision of comet Shoemaker-Levy 9 with Jupiter. <i>Science</i> , 1998 , 279, 1181-4	33.3	32
111	Coupled-cluster ab initio investigation of singlet/triplet CH ₂ S isomers and the reaction of atomic carbon with hydrogen sulfide to HCS/HSC. <i>Journal of Chemical Physics</i> , 1999 , 110, 9982-9988	3.9	30
110	Fourier transform millimeter-wave spectroscopy of the HCS radical in the 2A [?] ground electronic state. <i>Journal of Chemical Physics</i> , 1998 , 108, 8859-8863	3.9	28
109	Tuning the cis/trans Conformer Ratio of Xaa-Pro Amide Bonds by Intramolecular Hydrogen Bonds: The Effect on PPII Helix Stability. <i>Angewandte Chemie</i> , 2010 , 122, 6468-6471	3.6	27
108	Ab initio investigation of structure and inversion barrier of triisopropylamine and related amines and phosphines. <i>Theoretica Chimica Acta</i> , 1992 , 82, 271-284		26
107	A linear- and sublinear-scaling method for calculating NMR shieldings in atomic orbital-based second-order Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2013 , 138, 174104	3.9	25
106	Crossed-beam reaction of carbon atoms with sulfur containing molecules. I. Chemical dynamics of thioformyl (HCS X2A [?]) formation from reaction of C(3P _j) with hydrogen sulfide, H ₂ S(X1A1). <i>Journal of Chemical Physics</i> , 1999 , 110, 2391-2403	3.9	25
105	Highly Efficient, Linear-Scaling Seminumerical Exact-Exchange Method for Graphic Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 1456-1468	6.4	23
104	Amine-Linked Covalent Organic Frameworks as a Platform for Postsynthetic Structure Interconversion and Pore-Wall Modification. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3430-3438	16.4	23
103	Structural, Biochemical, and Computational Studies Reveal the Mechanism of Selective Aldehyde Dehydrogenase 1A1 Inhibition by Cytotoxic Duocarmycin Analogues. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13550-4	16.4	22
102	Quantum-chemical and combined quantum-chemical/molecular-mechanical studies on the stabilization of a twin arginine pair in adenovirus Ad11. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9951-5	16.4	22
101	Thin-film properties of DNA and RNA bases: a combined experimental and theoretical study. <i>ChemPhysChem</i> , 2008 , 9, 740-7	3.2	22
100	Molecular recognition in molecular tweezers systems: quantum-chemical calculation of NMR chemical shifts. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 4552-62	3.6	21

99	Neutral-Neutral Reactions in the Interstellar Medium. II. Isotope Effects in the Formation of Linear and Cyclic C ₃ H and C ₃ D Radicals in Interstellar Environments. <i>Astrophysical Journal</i> , 1999 , 510, 784-788	4.7	21
98	Interfacial Engineering for Improved Photocatalysis in a Charge Storing 2D Carbon Nitride: Melamine Functionalized Poly(heptazine imide). <i>Advanced Energy Materials</i> , 2021 , 11, 2003016	21.8	21
97	Unraveling the Base Excision Repair Mechanism of Human DNA Glycosylase. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9824-31	16.4	20
96	Theoretical Treatment of Sodium Chloride Clusters. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992 , 96, 1287-1294		20
95	Efficient and Linear-Scaling Seminumerical Method for Local Hybrid Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 3451-3458	6.4	19
94	Efficient calculation of beyond RPA correlation energies in the dielectric matrix formalism. <i>Journal of Chemical Physics</i> , 2018 , 148, 204104	3.9	19
93	Linear-scaling symmetry-adapted perturbation theory with scaled dispersion. <i>Journal of Chemical Physics</i> , 2013 , 139, 184104	3.9	18
92	Hierarchical self-assembly of aminopyrazole peptides into nanorosettes in water. <i>Journal of the American Chemical Society</i> , 2008 , 130, 586-91	16.4	18
91	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2102468	15.6	18
90	pH-Responsive Aminoproline-Containing Collagen Triple Helices. <i>Chemistry - A European Journal</i> , 2017 , 23, 7938-7944	4.8	17
89	Accurate and Efficient Parallel Implementation of an Effective Linear-Scaling Direct Random Phase Approximation Method. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 2505-2515	6.4	17
88	Sensitivity of ab Initio vs Empirical Methods in Computing Structural Effects on NMR Chemical Shifts for the Example of Peptides. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 122-33	6.4	17
87	A base-independent repair mechanism for DNA glycosylase--no discrimination within the active site. <i>Scientific Reports</i> , 2015 , 5, 10369	4.9	17
86	Fast evaluation of a linear number of local exchange matrices. <i>Chemical Physics Letters</i> , 2002 , 358, 43-50	2.5	17
85	A reduced-scaling density matrix-based method for the computation of the vibrational Hessian matrix at the self-consistent field level. <i>Journal of Chemical Physics</i> , 2015 , 142, 094101	3.9	16
84	[P3Se4](+): A Binary Phosphorus-Selenium Cation. <i>Chemistry - A European Journal</i> , 2015 , 21, 9697-712	4.8	15
83	Quantum-chemical simulation of solid-state NMR spectra: the example of a molecular tweezer host-guest complex. <i>Molecular Physics</i> , 2010 , 108, 333-342	1.7	15
82	C-H...O Hydrogen Bonding. The Prototypical Methane-Formaldehyde System: A Critical Assessment. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5379-5395	6.4	14

81	A combined experimental and theoretical study of the pH-dependent binding mode of NAD ⁺ by water-soluble molecular clips. <i>Journal of Physical Organic Chemistry</i> , 2009 , 22, 779-790	2.1	14
80	Why Proline? Influence of Ring-Size on the Collagen Triple Helix. <i>Organic Letters</i> , 2020 , 22, 348-351	6.2	13
79	Employing OpenCL to Accelerate Ab Initio Calculations on Graphics Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 2712-2716	6.4	12
78	Efficient and Accurate Born-Oppenheimer Molecular Dynamics for Large Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5479-5485	6.4	12
77	Effect of DNA Environment on Electronically Excited States of Methylene Blue Evaluated by a Three-Layered QM/QM/MM ONIOM Scheme. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 4298-4308 ¹²	6.4	12
76	Low-Scaling Self-Consistent Minimization of a Density Matrix Based Random Phase Approximation Method in the Atomic Orbital Space. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4468-4477	6.4	12
75	Effect of including torsional parameters for histidine-metal interactions in classical force fields for metalloproteins. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 13106-11	3.4	12
74	Ab Initio NMR Spectra for Molecular Systems with a Thousand and More Atoms: A Linear-Scaling Method. <i>Angewandte Chemie</i> , 2004 , 116, 4585-4589	3.6	12
73	Integral partition bounds for fast and effective screening of general one-, two-, and many-electron integrals. <i>Journal of Chemical Physics</i> , 2019 , 150, 044101	3.9	11
72	Density matrix-based variational quantum Monte Carlo providing an asymptotically linear scaling behavior for the local energy. <i>Physical Review B</i> , 2007 , 75,	3.3	11
71	Struktur und Dynamik des Wirt-Gast-Komplexes einer molekularen Pinzette: Synthese, Festkörper-NMR-Spektroskopie und quantenchemische Rechnungen. <i>Angewandte Chemie</i> , 2001 , 113, 740-743	3.6	11
70	An improved molecular partitioning scheme for numerical quadratures in density functional theory. <i>Journal of Chemical Physics</i> , 2018 , 149, 204111	3.9	11
69	Total synthesis of the proposed structure of trichodermatide A. <i>Journal of Organic Chemistry</i> , 2014 , 79, 9812-7	4.2	10
68	Low-scaling first-order properties within second-order Müller-Plesset perturbation theory using Cholesky decomposed density matrices. <i>Journal of Chemical Physics</i> , 2017 , 147, 024101	3.9	10
67	Spin component-scaled second-order Müller-Plesset perturbation theory for calculating NMR shieldings. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 37-44	6.4	10
66	Conductivity mechanism in ionic 2D carbon nitrides: from hydrated ion motion to enhanced photocatalysis. <i>Advanced Materials</i> , 2021 , e2107061	24	10
65	Communication: Almost error-free resolution-of-the-identity correlation methods by null space removal of the particle-hole interactions. <i>Journal of Chemical Physics</i> , 2017 , 146, 211106	3.9	9
64	Intermolecular (119)Sn,(31)P Through-Space Spin-Spin Coupling in a Solid Bivalent Tin Phosphido Complex. <i>Inorganic Chemistry</i> , 2016 , 55, 4669-75	5.1	9

63	Low-scaling analytical gradients for the direct random phase approximation using an atomic orbital formalism. <i>Journal of Chemical Physics</i> , 2018 , 149, 244111	3.9	9
62	Distance-including rigorous upper bounds and tight estimates for two-electron integrals over long- and short-range operators. <i>Journal of Chemical Physics</i> , 2017 , 147, 144101	3.9	8
61	Ionothermal Synthesis of Imide-Linked Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2020 , 132, 15880-15888	3.6	8
60	Range-Separated Density-Functional Theory in Combination with the Random Phase Approximation: An Accuracy Benchmark. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2985-2994	6.4	8
59	Base-Independent DNA Base-Excision Repair of 8-Oxoguanine. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4522-4526	16.4	8
58	Efficient Reduced-Scaling Second-Order Møller-Plesset Perturbation Theory with Cholesky-Decomposed Densities and an Attenuated Coulomb Metric. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6856-6868	6.4	8
57	Finding Reactive Configurations: A Machine Learning Approach for Estimating Energy Barriers Applied to Sirtuin 5. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6660-6667	6.4	8
56	Highly Efficient Resolution-of-Identity Density Functional Theory Calculations on Central and Graphics Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 1512-1521	6.4	8
55	Nuclear Magnetic Shieldings of Stacked Aromatic and Antiaromatic Molecules. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1952-1962	6.4	7
54	Calculated Nuclear Magnetic Resonance Spectra of Polytwistane and Related Hydrocarbon Nanorods. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 1020-6	6.4	7
53	A rigorous and optimized strategy for the evaluation of the Boys function kernel in molecular electronic structure theory. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1390-8	3.5	7
52	Short-range second order screened exchange correction to RPA correlation energies. <i>Journal of Chemical Physics</i> , 2017 , 147, 204107	3.9	7
51	Quantum-Chemical and Combined Quantum-Chemical/Molecular-Mechanical Studies on the Stabilization of a Twin Arginine Pair in Adenovirus Ad11. <i>Angewandte Chemie</i> , 2010 , 122, 10147-10151	3.6	7
50	Adding electron-nuclear cusps to Gaussian basis functions for molecular quantum Monte Carlo calculations. <i>Physical Review B</i> , 2007 , 76,	3.3	7
49	Wasserstoffbrückenbindungen mit Cyanidionen? Die Strukturen von 1,3-Diisopropyl-4,5-dimethylimidazoliumcyanid und 1-Isopropyl-3,4,5-trimethylimidazoliumcyanid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 2268-2275	1.3	7
48	An Ab Initio Study of Alkali Halide Clusters with an Alkali Excess: M13X12, [M13X12] ⁺ , [M14X12] ⁺ , [M14X12] ²⁺ , and [M23X22] ⁺ . <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1995 , 99, 1191-1196		7
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