

Rodney J Bartlett

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.

587
papers

52,921
citations

105
h-index

212
g-index

606
ext. papers

55,548
ext. citations

3.9
avg, IF

7.81
L-index

#	Paper	IF	Citations
587	Benchmarking isotropic hyperfine coupling constants using (QTP) DFT functionals and coupled cluster theory.. <i>Journal of Chemical Physics</i> , 2022 , 156, 094107	3.9	0
586	The Devil's Triangle of Kohn-Sham density functional theory and excited states. <i>Journal of Chemical Physics</i> , 2021 , 154, 074106	3.9	6
585	Equation of motion coupled-cluster study of core excitation spectra II: Beyond the dipole approximation. <i>Journal of Chemical Physics</i> , 2021 , 155, 094103	3.9	2
584	Basis Sets for Correlated Methods. <i>Lecture Notes in Quantum Chemistry II</i> , 2021 , 129-155	0.6	
583	Advanced concepts in electronic structure (ACES) software programs. <i>Journal of Chemical Physics</i> , 2020 , 152, 184105	3.9	12
582	A route to improving RPA excitation energies through its connection to equation-of-motion coupled cluster theory. <i>Journal of Chemical Physics</i> , 2020 , 153, 234101	3.9	4
581	Index of multi-determinantal and multi-reference character in coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2020 , 153, 234103	3.9	5
580	Spin-orbit split ionized and electron-attached states using explicitly-correlated equation-of-motion coupled-cluster singles and doubles eigenvectors. <i>Chemical Physics Letters</i> , 2019 , 730, 372-377	2.5	3
579	Vertical valence ionization potential benchmarks from equation-of-motion coupled cluster theory and QTP functionals. <i>Journal of Chemical Physics</i> , 2019 , 150, 074108	3.9	25
578	Behind the success of modified coupled-cluster methods: addition by subtraction. <i>Molecular Physics</i> , 2019 , 117, 2201-2216	1.7	5
577	Adventures in DFT by a wavefunction theorist. <i>Journal of Chemical Physics</i> , 2019 , 151, 160901	3.9	16
576	Equation of motion coupled-cluster for core excitation spectra: Two complementary approaches. <i>Journal of Chemical Physics</i> , 2019 , 151, 164117	3.9	17
575	Similarity-transformed equation-of-motion coupled-cluster singles and doubles method with spin-orbit effects for excited states. <i>Journal of Chemical Physics</i> , 2019 , 151, 134110	3.9	7
574	Perturbation Improved Natural Linear-Scaled Coupled-Cluster Method and Its Application to Conformational Analysis. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 371-381	2.8	1
573	Explicitly-correlated double ionization potentials and double electron attachment equation-of-motion coupled cluster methods. <i>Chemical Physics Letters</i> , 2018 , 692, 191-195	2.5	8
572	Reference dependence of the two-determinant coupled-cluster method for triplet and open-shell singlet states of biradical molecules. <i>Journal of Chemical Physics</i> , 2018 , 148, 164102	3.9	2
571	Vibrational Characterization of Radical Ion Adducts between Imidazole and CO. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3805-3810	2.8	3

570	Spin-orbit splitted excited states using explicitly-correlated equation-of-motion coupled-cluster singles and doubles eigenvectors. <i>Chemical Physics Letters</i> , 2018 , 698, 171-175	2.5	3
569	Non-empirical exchange-correlation parameterizations based on exact conditions from correlated orbital theory. <i>Journal of Chemical Physics</i> , 2018 , 148, 184106	3.9	17
568	Valence and charge-transfer optical properties for some SiC (m, n) clusters: Comparing TD-DFT, complete-basis-limit EOMCC, and benchmarks from spectroscopy. <i>Journal of Chemical Physics</i> , 2018 , 148, 174309	3.9	1
567	Accurate computation of X-ray absorption spectra with ionization potential optimized global hybrid functional. <i>Journal of Chemical Physics</i> , 2018 , 149, 064111	3.9	15
566	Coupled-cluster based basis sets for valence correlation calculations. New primitives, frozen atomic natural orbitals, and basis sets from double to hextuple zeta for atoms H, He, and B-Ne. <i>Journal of Chemical Physics</i> , 2018 , 149, 064105	3.9	3
565	Rigorous and Empirical Approaches to Correlated Single-Particle Theories 2018 , 1-20		1
564	Low scaling EOM-CCSD and EOM-MBPT(2) method with natural transition orbitals. <i>Journal of Chemical Physics</i> , 2018 , 149, 184103	3.9	8
563	Communication: Can excitation energies be obtained from orbital energies in a correlated orbital theory?. <i>Journal of Chemical Physics</i> , 2018 , 149, 131101	3.9	23
562	Communication: Coupled cluster and many-body perturbation theory for fractional charges and spins. <i>Journal of Chemical Physics</i> , 2018 , 148, 221103	3.9	10
561	Explicitly-correlated coupled cluster method for long-range dispersion coefficients. <i>Chemical Physics Letters</i> , 2017 , 672, 133-136	2.5	2
560	Excited states from modified coupled cluster methods: Are they any better than EOM CCSD?. <i>Journal of Chemical Physics</i> , 2017 , 146, 144104	3.9	26
559	Does the ionization potential condition employed in QTP functionals mitigate the self-interaction error?. <i>Journal of Chemical Physics</i> , 2017 , 146, 034102	3.9	20
558	Towards core-excitation spectra in attosecond spectroscopy: A coupled-cluster study of ClF. <i>Chemical Physics Letters</i> , 2017 , 683, 68-75	2.5	11
557	Elementary reaction profile and chemical kinetics study of [C(1D)](3P) + SiH4 with the CCSD(T) method. <i>Chemical Physics Letters</i> , 2017 , 680, 61-68	2.5	2
556	Automatic generation of reaction energy databases from highly accurate atomization energy benchmark sets. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9798-9805	3.6	23
555	The power of exact conditions in electronic structure theory. <i>Chemical Physics Letters</i> , 2017 , 669, 54-70	2.5	27
554	A note on the accuracy of KS-DFT densities. <i>Journal of Chemical Physics</i> , 2017 , 147, 204103	3.9	18
553	Single-reference coupled cluster theory for multi-reference problems. <i>Journal of Chemical Physics</i> , 2017 , 147, 184101	3.9	19

552	Excitation energies with spin-orbit couplings using equation-of-motion coupled-cluster singles and doubles eigenvectors. <i>Journal of Chemical Physics</i> , 2017 , 147, 164118	3.9	11
551	Determination of consistent semiempirical one-centre integrals based on coupled-cluster theory. <i>Molecular Physics</i> , 2017 , 115, 538-544	1.7	5
550	Aces4: A Platform for Computational Chemistry Calculations with Extremely Large Block-Sparse Arrays 2017 ,		1
549	Gas phase RDX decomposition pathways using coupled cluster theory. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26069-26077	3.6	21
548	Predictive coupled-cluster isomer orderings for some $SinCm$ ($m, n \leq 2$) clusters: A pragmatic comparison between DFT and complete basis limit coupled-cluster benchmarks. <i>Journal of Chemical Physics</i> , 2016 , 145, 024312	3.9	9
547	Ionization potential optimized double-hybrid density functional approximations. <i>Journal of Chemical Physics</i> , 2016 , 145, 104106	3.9	16
546	Increasing the applicability of density functional theory. V. X-ray absorption spectra with ionization potential corrected exchange and correlation potentials. <i>Journal of Chemical Physics</i> , 2016 , 145, 034108	3.9	20
545	Electric multipole moments calculation with explicitly correlated coupled-cluster wavefunctions. <i>Journal of Chemical Physics</i> , 2016 , 144, 234107	3.9	5
544	The QTP family of consistent functionals and potentials in Kohn-Sham density functional theory. <i>Journal of Chemical Physics</i> , 2016 , 145, 034107	3.9	55
543	Explicitly correlated coupled-cluster theory for static polarizabilities. <i>Journal of Chemical Physics</i> , 2016 , 145, 134104	3.9	5
542	Assessing the distinguishable cluster approximation based on the triple bond-breaking in the nitrogen molecule. <i>Journal of Chemical Physics</i> , 2016 , 144, 124117	3.9	15
541	Coupled-cluster based basis sets for valence correlation calculations. <i>Journal of Chemical Physics</i> , 2016 , 144, 104106	3.9	10
540	Facile C(sp ²)-C(sp ²) bond cleavage in oxalic acid-derived radicals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3248-52	16.4	10
539	The benzene radical anion: A computationally demanding prototype for aromatic anions. <i>Journal of Chemical Physics</i> , 2015 , 142, 204304	3.9	18
538	Coupled cluster geometries and energies of C ₂₀ carbon cluster isomers [A new benchmark study. <i>Chemical Physics Letters</i> , 2015 , 629, 76-80	2.5	24
537	Spectroscopic analysis of diphosphatriazolate anion (P ₂ N ₃) ⁻ by coupled-cluster methods as a step toward N ₅ . <i>Chemical Physics Letters</i> , 2015 , 640, 68-71	2.5	6
536	Molecular cluster perturbation theory. I. Formalism. <i>Molecular Physics</i> , 2015 , 113, 3459-3470	1.7	5
535	Explicitly correlated similarity transformed equation-of-motion coupled-cluster method. <i>Journal of Chemical Physics</i> , 2015 , 143, 074111	3.9	11

534	Approximating electronically excited states with equation-of-motion linear coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2015 , 143, 164103	3.9	17
533	Algebraic connectivity analysis in molecular electronic structure theory II: total exponential formulation of second-quantised correlated methods. <i>Molecular Physics</i> , 2014 , 112, 213-260	1.7	8
532	Gas-Phase Synthesis of Boronlallene (HCCCH(BO)) under Single Collision Conditions: A Crossed Molecular Beams and Computational Study. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 3810-3819	2.8	6
531	Equation-of-motion coupled cluster method for ionized states with partial inclusion of connected triples: Assessment of the accuracy in regular and explicitly-correlated approaches. <i>Chemical Physics Letters</i> , 2014 , 610-611, 173-178	2.5	3
530	Transition metal atomic multiplet states through the lens of single-reference coupled-cluster and the equation-of-motion coupled-cluster methods. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	9
529	At what chain length do unbranched alkanes prefer folded conformations?. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 1706-12	2.8	50
528	Singlet-triplet separations of di-radicals treated by the DEA/DIP-EOM-CCSD methods. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	20
527	Relaxed active space: fixing tailored-CC with high order coupled cluster. II. <i>Journal of Chemical Physics</i> , 2014 , 140, 064113	3.9	19
526	Complex absorbing potential based equation-of-motion coupled cluster method for the potential energy curve of CO ⁻ anion. <i>Journal of Chemical Physics</i> , 2014 , 141, 164113	3.9	16
525	Correlation correction to configuration interaction singles from coupled cluster perturbation theory. <i>Journal of Chemical Physics</i> , 2014 , 140, 234108	3.9	3
524	Monte Carlo configuration interaction with perturbation corrections for dissociation energies of first row diatomic molecules: C ₂ , N ₂ , O ₂ , CO, and NO. <i>Journal of Chemical Physics</i> , 2014 , 140, 084114	3.9	19
523	Increasing the applicability of density functional theory. IV. Consequences of ionization-potential improved exchange-correlation potentials. <i>Journal of Chemical Physics</i> , 2014 , 140, 18A534	3.9	56
522	Theoretical study of low-lying excited states of HSX (X = F, Cl, Br, I). <i>Chemical Physics Letters</i> , 2014 , 602, 34-39	2.5	1
521	Geometric Metastability in Molecules as a Way to Enhance Energy Storage. <i>Advances in Quantum Chemistry</i> , 2014 , 69, 147-170	1.4	2
520	Pragmatic ab initio prediction of enthalpies of formation for large molecules: accuracy of MP2 geometries and frequencies using CCSD(T) correlation energies. <i>Journal of Molecular Modeling</i> , 2013 , 19, 2821-4	2	
519	The great diversity of HMX conformers: probing the potential energy surface using CCSD(T). <i>Journal of Physical Chemistry A</i> , 2013 , 117, 3467-74	2.8	12
518	Benchmarking for perturbative triple-excitations in EE-EOM-CC methods. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2569-79	2.8	51
517	Benchmark studies on the building blocks of DNA. 3. Watson-Crick and stacked base pairs. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 3149-57	2.8	35

516	Potential energy curves via double electron-attachment calculations: dissociation of alkali metal dimers. <i>Journal of Chemical Physics</i> , 2013 , 138, 194103	3.9	36
515	A crossed molecular beam and ab-initio investigation of the reaction of boron monoxide (BO; X2 Σ) with methylacetylene (CH ₃ CCH; X1A1): competing atomic hydrogen and methyl loss pathways. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 11794-807	2.8	13
514	Infinite order relaxation effects for core ionization energies with a variational coupled cluster ansatz. <i>Chemical Physics Letters</i> , 2013 , 555, 235-238	2.5	12
513	Increasing the applicability of DFT I: Non-variational correlation corrections from Hartree-Fock DFT for predicting transition states. <i>Chemical Physics Letters</i> , 2012 , 524, 10-15	2.5	61
512	The equation-of-motion coupled cluster method for triple electron attached states. <i>Journal of Chemical Physics</i> , 2012 , 137, 174102	3.9	21
511	Conformers of CL-20 explosive and ab initio refinement using perturbation theory: implications to detonation mechanisms. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 12129-35	2.8	18
510	Relaxed active space: fixing tailored-CC with high order coupled cluster. I. <i>Journal of Chemical Physics</i> , 2012 , 137, 214103	3.9	23
509	Benchmark studies on the building blocks of DNA. 2. Effect of biological environment on the electronic excitation spectrum of nucleobases. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 8851-60	2.8	31
508	Benchmark studies on the building blocks of DNA. 1. Superiority of coupled cluster methods in describing the excited states of nucleobases in the Franck-Condon region. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 6702-10	2.8	80
507	Increasing the applicability of density functional theory. III. Do consistent Kohn-Sham density functional methods exist?. <i>Journal of Chemical Physics</i> , 2012 , 137, 134102	3.9	31
506	Coupled-cluster theory and its equation-of-motion extensions. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012 , 2, 126-138	7.9	231
505	Multireference nature of chemistry: the coupled-cluster view. <i>Chemical Reviews</i> , 2012 , 112, 182-243	68.1	349
504	Increasing the applicability of density functional theory. II. Correlation potentials from the random phase approximation and beyond. <i>Journal of Chemical Physics</i> , 2012 , 136, 044105	3.9	63
503	A remark on the disconnected nature of Lagrange equations in the context of a linear-scaling implementation of the coupled-cluster energy gradients. <i>Molecular Physics</i> , 2012 , 110, 2343-2348	1.7	2
502	Multireference coupled-cluster theory: the easy way. <i>Journal of Chemical Physics</i> , 2011 , 134, 114108	3.9	104
501	RDX geometries, excited states, and revised energy ordering of conformers via MP2 and CCSD(T) methodologies: insights into decomposition mechanism. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 884-90	2.8	28
500	Multireference Double Electron Attached Coupled Cluster Method with Full Inclusion of the Connected Triple Excitations: MR-DA-CCSDT. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 3088-96	6.4	47
499	Comparing ab initio density-functional and wave function theories: the impact of correlation on the electronic density and the role of the correlation potential. <i>Journal of Chemical Physics</i> , 2011 , 135, 114111	3.9	36

498	Multi-reference Fock space coupled-cluster method in the intermediate Hamiltonian formulation for potential energy surfaces. <i>Journal of Chemical Physics</i> , 2011 , 135, 044121	3.9	40
497	Software design of ACES III with the super instruction architecture. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011 , 1, 895-901	7.9	46
496	The failed CCSD(T) description of the automerization of cyclobutadiene. <i>Chemical Physics Letters</i> , 2011 , 501, 166-171	2.5	44
495	Gas phase solvatochromic effects of phenol and naphthol photoacids. <i>Journal of Chemical Physics</i> , 2011 , 134, 244303	3.9	5
494	Charge-transfer separability and size-extensivity in the equation-of-motion coupled cluster method: EOM-CCx. <i>Journal of Chemical Physics</i> , 2011 , 134, 034106	3.9	32
493	External coupled-cluster perturbation theory: description and application to weakly interaction dimers. Corrections to the random phase approximation. <i>Journal of Chemical Physics</i> , 2011 , 134, 184108	3.9	18
492	The Super Instruction Architecture: A Framework for High-Productivity Parallel Implementation of Coupled-Cluster Methods on Petascale Computers. <i>Annual Reports in Computational Chemistry</i> , 2011 , 7, 179-191	1.8	7
491	A personal history of the Quantum Theory Project and the Sanibel meeting on the occasion of their fiftieth anniversary. <i>Molecular Physics</i> , 2010 , 108, 2823-2839	1.7	1
490	Improving upon CCSD(TQ(f)) for potential energy surfaces: $\tilde{\text{C}}\text{CSD(TQ(f))}$ models. <i>Journal of Chemical Physics</i> , 2010 , 133, 104102	3.9	23
489	Introduction to proceedings of Molecular Quantum Mechanics 2010: from methylene to DNA and beyond. <i>Molecular Physics</i> , 2010 , 108, 2437-2438	1.7	
488	Ab initio DFT and its role in electronic structure theory. <i>Molecular Physics</i> , 2010 , 108, 3299-3311	1.7	39
487	The coupled-cluster revolution. <i>Molecular Physics</i> , 2010 , 108, 2905-2920	1.7	105
486	On the directed gas phase synthesis of the imidoborane molecule (HNBH)--an isoelectronic molecule of acetylene (HCCH). <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12148-54	2.8	10
485	Accuracy of Computed ^{15}N Nuclear Magnetic Resonance Chemical Shifts. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 1228-1239	6.4	22
484	Ab initio simulation of UV/vis absorption spectra for atmospheric modeling: method design for medium-sized molecules. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9726-35	3.6	4
483	An adaptive coupled-cluster theory: @CC approach. <i>Journal of Chemical Physics</i> , 2010 , 133, 244112	3.9	24
482	The Yearn to be Hermitian. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010 , 1-36	0.7	7
481	Rethinking linearized coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2009 , 130, 144112	3.9	67

480	Improving upon the accuracy for doubly excited states within the coupled cluster singles and doubles theory. <i>Journal of Chemical Physics</i> , 2009 , 131, 124310	3.9	6
479	Parallel implementation of the equation-of-motion coupled-cluster singles and doubles method and application for radical adducts of cytosine. <i>Journal of Chemical Physics</i> , 2009 , 130, 124122	3.9	25
478	An ab initio study of the (H ₂ O) ₂₀ H ⁺ and (H ₂ O) ₂₁ H ⁺ water clusters. <i>Journal of Chemical Physics</i> , 2009 , 131, 104313	3.9	27
477	Excited and ionized states of the ozone molecule with full triples coupled cluster methods. <i>Journal of Chemical Physics</i> , 2009 , 131, 194104	3.9	20
476	An infrastructure for scalable and portable parallel programs for computational chemistry 2009 ,		8
475	Determination of the size-consistency error in the single and double excitation configuration interaction model. <i>International Journal of Quantum Chemistry</i> , 2009 , 12, 165-173	2.1	3
474	Localized orbitals in the coupled cluster singles and doubles model. <i>International Journal of Quantum Chemistry</i> , 2009 , 22, 561-573	2.1	5
473	A multireference many-body perturbation theory study of Be + H ₂ -> BeH ₂ . <i>International Journal of Quantum Chemistry</i> , 2009 , 24, 347-356	2.1	
472	Direct coupled cluster calculations on excited states. <i>International Journal of Quantum Chemistry</i> , 2009 , 28, 217-220	2.1	2
471	Geometric sumrule and the reduced partitioning procedure. <i>International Journal of Quantum Chemistry</i> , 2009 , 5, 151-159	2.1	12
470	The treatment of correlation effects in second-order properties. <i>International Journal of Quantum Chemistry</i> , 2009 , 7, 449-462	2.1	6
469	Correlation energy in LiH, BH, and HF with many-body perturbation theory using Slater-type atomic orbitals. <i>International Journal of Quantum Chemistry</i> , 2009 , 8, 271-276	2.1	28
468	Some aspects of diagrammatic perturbation theory. <i>International Journal of Quantum Chemistry</i> , 2009 , 9, 183-198	2.1	81
467	Towards an exact correlated orbital theory for electrons. <i>Chemical Physics Letters</i> , 2009 , 484, 1-9	2.5	50
466	First calculations of 15N-15N J values and new calculations of chemical shifts for high nitrogen systems: a comment on the long search for HN5 and its pentazole anion. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 3197-201	2.8	34
465	Many-Body Methods in Chemistry and Physics: MBPT and Coupled-Cluster Theory 2009 ,		879
464	Improving upon CCSD(T): LambdaCCSD(T). I. Potential energy surfaces. <i>Journal of Chemical Physics</i> , 2008 , 128, 044110	3.9	157
463	Intermediate Hamiltonian Fock-space multireference coupled-cluster method with full triples for calculation of excitation energies. <i>Journal of Chemical Physics</i> , 2008 , 129, 044101	3.9	63

462	Multireference Fock-space coupled-cluster and equation-of-motion coupled-cluster theories: the detailed interconnections. <i>Journal of Chemical Physics</i> , 2008 , 129, 134105	3.9	69
461	Natural linear-scaled coupled-cluster theory with local transferable triple excitations: applications to peptides. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 5994-6003	2.8	58
460	Ground state potential energy surfaces and bound states of M-He dimers (M=Cu,Ag,Au): a theoretical investigation. <i>Journal of Chemical Physics</i> , 2008 , 129, 204307	3.9	28
459	Improving upon CCSD(T): LambdaCCSD(T). II. Stationary formulation and derivatives. <i>Journal of Chemical Physics</i> , 2008 , 128, 044111	3.9	65
458	Transferability in the natural linear-scaled coupled-cluster effective Hamiltonian approach: Applications to dynamic polarizabilities and dispersion coefficients. <i>Journal of Chemical Physics</i> , 2008 , 129, 054105	3.9	14
457	Effect of the nonlocal exchange on the performance of the orbital-dependent correlation functionals from second-order perturbation theory. <i>Journal of Chemical Physics</i> , 2008 , 129, 124109	3.9	17
456	Different equation-of-motion coupled cluster methods with different reference functions: the formyl radical. <i>Journal of Chemical Physics</i> , 2008 , 129, 104301	3.9	11
455	Spin-free intermediate Hamiltonian Fock space coupled-cluster theory with full inclusion of triple excitations for restricted Hartree Fock based triplet states. <i>Journal of Chemical Physics</i> , 2008 , 129, 244119	3.9	35
454	Frozen natural orbital coupled-cluster theory: forces and application to decomposition of nitroethane. <i>Journal of Chemical Physics</i> , 2008 , 128, 164101	3.9	82
453	Structure and properties of disiloxane: An ab initio and post-Hartree-Fock study. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2088-2096	2.1	12
452	Benchmark calculations of the Fock-space coupled cluster single, double, triple excitation method in the intermediate Hamiltonian formulation for electronic excitation energies. <i>Chemical Physics Letters</i> , 2008 , 457, 267-270	2.5	39
451	Structure, spectra, and rearrangement mechanism of PH ₂ F ₃ : revisiting a classic problem in structural inorganic chemistry. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2220-8	2.8	2
450	HNNC radical and its role in the CH+N ₂ reaction. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 6894-9	2.8	22
449	Coupled-cluster theory in quantum chemistry. <i>Reviews of Modern Physics</i> , 2007 , 79, 291-352	40.5	2110
448	Applications of Post-Hartree-Fock Methods: A Tutorial. <i>Reviews in Computational Chemistry</i> , 2007 , 65-169		230
447	Theoretical study of the electronic structure of MCH ₂ (+)(M=Fe,Co,Ni). <i>Journal of Chemical Physics</i> , 2007 , 126, 154318	3.9	8
446	Addition by subtraction in coupled cluster theory. II. Equation-of-motion coupled cluster method for excited, ionized, and electron-attached states based on the nCC ground state wave function. <i>Journal of Chemical Physics</i> , 2007 , 127, 024106	3.9	25
445	Ab initio density functional theory applied to quasidegenerate problems. <i>Journal of Chemical Physics</i> , 2007 , 127, 154111	3.9	34

444	Exact-exchange density functional theory for hyperpolarizabilities. <i>Journal of Chemical Physics</i> , 2007 , 127, 174102	3.9	12
443	A coupled cluster study of the electronic spectroscopy and photochemistry of Cr(CO) ₆ . <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 6115-22	3.6	40
442	Making More Extensive Use of the Coupled-cluster Wave Function: from the Standard Energy Expression to the Energy Expectation Value. <i>Theoretical Chemistry Accounts</i> , 2006 , 116, 440-449	1.9	4
441	Addition by subtraction in coupled-cluster theory: a reconsideration of the CC and CI interface and the nCC hierarchy. <i>Journal of Chemical Physics</i> , 2006 , 125, 204105	3.9	60
440	Ab initio correlation functionals from second-order perturbation theory. <i>Journal of Chemical Physics</i> , 2006 , 125, 104108	3.9	54
439	Tailored coupled cluster singles and doubles method applied to calculations on molecular structure and harmonic vibrational frequencies of ozone. <i>Journal of Chemical Physics</i> , 2006 , 124, 114311	3.9	71
438	Adiabatic ab initio time-dependent density-functional theory employing optimized-effective-potential many-body perturbation theory potentials. <i>Physical Review A</i> , 2006 , 73,	2.6	16
437	Computational design of SiBiO ₂ interfaces: Stress and strain on the atomic scale. <i>Physical Review B</i> , 2006 , 73,	3.3	32
436	High-level coupled-cluster methods for electron spin resonance spectra: on the experimental spectrum of the silacyclobutane radical cation. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4473-8	2.8	4
435	Hidden symmetry in Fermi-contact NMR spin-spin coupling constants. <i>Molecular Physics</i> , 2006 , 104, 2403-2411	2.4	3
434	New perspectives on unitary coupled-cluster theory. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 3393-3401	2.1	102
433	Ab initio density functional theory for spin-polarized systems. <i>Chemical Physics Letters</i> , 2006 , 427, 466-471	2.1	21
432	Ab initio DFT: Getting the right answer for the right reason. <i>Computational and Theoretical Chemistry</i> , 2006 , 771, 1-8	2.1	48
431	Accurate calculation of vibrational frequencies in excited states with the full EOM-CCSDT method. <i>Computational and Theoretical Chemistry</i> , 2006 , 768, 103-109	2.1	10
430	Computational Design of Silicon Suboxides: Chemical and Mechanical Forces on the Atomic Scale. <i>Journal of Computer-Aided Materials Design</i> , 2006 , 13, 185-200	2.1	3
429	Quantum mechanics at the core of multi-scale simulations. <i>Journal of Computer-Aided Materials Design</i> , 2006 , 13, 89-109	2.1	5
428	Frozen Natural Orbitals: Systematic Basis Set Truncation for Coupled-Cluster Theory. <i>Collection of Czechoslovak Chemical Communications</i> , 2005 , 70, 837-850	2.1	92
427	A Reinvestigation of Ramsey's Theory of NMR Coupling. <i>Advances in Quantum Chemistry</i> , 2005 , 48, 434-467	2.1	3

426	Critical comparison of various connected quadruple excitation approximations in the coupled-cluster treatment of bond breaking. <i>Journal of Chemical Physics</i> , 2005 , 122, 224102	3.9	48
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