

Jepppe Olsen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2617325/publications.pdf>

Version: 2024-02-01

74
papers

10,974
citations

94433

37
h-index

76900

74
g-index

81
all docs

81
docs citations

81
times ranked

5847
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dalton quantum chemistry program system. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 269-284.	14.6	1,166
2	Linear and nonlinear response functions for an exact state and for an MCSCF state. Journal of Chemical Physics, 1985, 82, 3235-3264.	3.0	1,014
3	Determinant based configuration interaction algorithms for complete and restricted configuration interaction spaces. Journal of Chemical Physics, 1988, 89, 2185-2192.	3.0	941
4	Recent Advances in Wave Function-Based Methods of Molecular-Property Calculations. Chemical Reviews, 2012, 112, 543-631.	47.7	549
5	The accurate determination of molecular equilibrium structures. Journal of Chemical Physics, 2001, 114, 6548-6556.	3.0	353
6	Multiconfiguration Pair-Density Functional Theory. Journal of Chemical Theory and Computation, 2014, 10, 3669-3680.	5.3	334
7	The prediction of molecular equilibrium structures by the standard electronic wave functions. Journal of Chemical Physics, 1997, 106, 6430-6440.	3.0	333
8	Passing the one-billion limit in full configuration-interaction (FCI) calculations. Chemical Physics Letters, 1990, 169, 463-472.	2.6	326
9	Molecular equilibrium structures from experimental rotational constants and calculated vibration-rotation interaction constants. Journal of Chemical Physics, 2002, 116, 6482-6496.	3.0	245
10	Transition probability calculations for atoms using nonorthogonal orbitals. Physical Review E, 1995, 52, 4499-4508.	2.1	244
11	Linear response calculations for large scale multiconfiguration self-consistent field wave functions. Journal of Chemical Physics, 1988, 89, 3654-3661.	3.0	216
12	Quadratic response functions for a multiconfigurational self-consistent field wave function. Journal of Chemical Physics, 1992, 97, 1174-1190.	3.0	209
13	A priori calculation of molecular properties to chemical accuracy. Journal of Physical Organic Chemistry, 2004, 17, 913-933.	1.9	204
14	The initial implementation and applications of a general active space coupled cluster method. Journal of Chemical Physics, 2000, 113, 7140-7148.	3.0	201
15	Surprising cases of divergent behavior in Møller-Plesset perturbation theory. Journal of Chemical Physics, 1996, 105, 5082-5090.	3.0	192
16	Torsional Barriers and Equilibrium Angle of Biphenyl: Reconciling Theory with Experiment. Journal of Chemical Theory and Computation, 2008, 4, 1460-1471.	5.3	189
17	Multiconfigurational quadratic response functions for singlet and triplet perturbations: The phosphorescence lifetime of formaldehyde. Journal of Chemical Physics, 1992, 97, 9178-9187.	3.0	148
18	The CASSCF method: A perspective and commentary. International Journal of Quantum Chemistry, 2011, 111, 3267-3272.	2.0	146

#	ARTICLE	IF	CITATIONS
19	The generalized active space concept for the relativistic treatment of electron correlation. I. Kramers-restricted two-component configuration interaction. <i>Journal of Chemical Physics</i> , 2001, 114, 4775-4790.	3.0	137
20	The generalized active space concept for the relativistic treatment of electron correlation. II. Large-scale configuration interaction implementation based on relativistic 2- and 4-spinors and its application. <i>Journal of Chemical Physics</i> , 2003, 119, 2963-2971.	3.0	129
21	Pushing configuration-interaction to the limit: Towards massively parallel MCSCF calculations. <i>Journal of Chemical Physics</i> , 2017, 147, 184111.	3.0	120
22	TIME-DEPENDENT RESPONSE THEORY WITH APPLICATIONS TO SELF-CONSISTENT FIELD AND MULTICONFIGURATIONAL SELF-CONSISTENT FIELD WAVE FUNCTIONS. <i>Advanced Series in Physical Chemistry</i> , 1995, , 857-990.	1.5	116
23	Full configuration interaction benchmarking of coupled-cluster models for the lowest singlet energy surfaces of N ₂ . <i>Journal of Chemical Physics</i> , 2000, 113, 6677-6686.	3.0	109
24	SplitGAS Method for Strong Correlation and the Challenging Case of Cr ₂ . <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3375-3384.	5.3	97
25	Spin-orbit coupling constants in a multiconfiguration linear response approach. <i>Journal of Chemical Physics</i> , 1992, 96, 2118-2126.	3.0	90
26	On the inherent divergence in the Møller-Plesset series. The neon atom as a test case. <i>Chemical Physics Letters</i> , 1996, 261, 369-378.	2.6	79
27	Divergence in Møller-Plesset theory: A simple explanation based on a two-state model. <i>Journal of Chemical Physics</i> , 2000, 112, 9736-9748.	3.0	79
28	Triplet excitation energies in full configuration interaction and coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2001, 115, 3015-3020.	3.0	76
29	A general coupled cluster study of the N ₂ molecule. <i>Chemical Physics Letters</i> , 2001, 344, 578-586.	2.6	71
30	Large multiconfiguration Hartree-Fock calculations on the hyperfine structure of B(2P) and the nuclear quadrupole moments of ¹⁰ B and ¹¹ B. <i>Journal of Chemical Physics</i> , 1991, 94, 5051-5055.	3.0	65
31	Triplet excitation properties in large scale multiconfiguration linear response calculations. <i>Journal of Chemical Physics</i> , 1989, 91, 381-388.	3.0	56
32	A relativistic 4-component general-order multi-reference coupled cluster method: initial implementation and application to HBr. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 347-356.	1.4	55
33	Finite element multiconfiguration Hartree-Fock determination of the nuclear quadrupole moments of chlorine, potassium, and calcium isotopes. <i>Journal of Chemical Physics</i> , 1993, 98, 7152-7158.	3.0	49
34	Ab initio calculation of electronic circular dichroism for trans-cyclooctene using London atomic orbitals. <i>Theoretica Chimica Acta</i> , 1995, 90, 441-458.	0.8	46
35	An analysis and implementation of a general coupled cluster approach to excitation energies with application to the B ₂ molecule. <i>Journal of Chemical Physics</i> , 2001, 115, 671-679.	3.0	45
36	Second-Order Perturbation Theory for Generalized Active Space Self-Consistent-Field Wave Functions. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3208-3213.	5.3	44

#	ARTICLE	IF	CITATIONS
37	The exactness of the extended Koopmans's theorem: A numerical study. <i>Journal of Chemical Physics</i> , 1993, 98, 3999-4002.	3.0	39
38	The hyperpolarizability dispersion of neon is not anomalous. <i>Chemical Physics Letters</i> , 1991, 187, 387-390.	2.6	37
39	Novel methods for configuration interaction and orbital optimization for wave functions containing non-orthogonal orbitals with applications to the chromium dimer and trimer. <i>Journal of Chemical Physics</i> , 2015, 143, 114102.	3.0	36
40	A direct implementation of the second-order derivatives of multiconfigurational SCF energies and an analysis of the preconditioning in the associated response equation. <i>Molecular Physics</i> , 1999, 96, 617-628.	1.7	31
41	On the divergent behavior of Møller-Plesset perturbation theory for the molecular electric dipole moment. <i>Journal of Chemical Physics</i> , 2000, 112, 1107-1112.	3.0	30
42	Quadratic Response Functions in a Second-Order Polarization Propagator Framework. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11618-11628.	2.5	29
43	Molecular response properties from a Hermitian eigenvalue equation for a time-periodic Hamiltonian. <i>Journal of Chemical Physics</i> , 2015, 142, 114109.	3.0	29
44	Molecular response properties in equation of motion coupled cluster theory: A time-dependent perspective. <i>Journal of Chemical Physics</i> , 2016, 144, 024102.	3.0	29
45	Spinor optimization for a relativistic spin-dependent CASSCF program. <i>Theoretical Chemistry Accounts</i> , 1997, 97, 125-135.	1.4	24
46	CC3 triplet excitation energies using an explicit spin coupled excitation space. <i>Journal of Chemical Physics</i> , 2001, 115, 3545-3552.	3.0	24
47	Cluster perturbation theory. I. Theoretical foundation for a coupled cluster target state and ground-state energies. <i>Journal of Chemical Physics</i> , 2019, 150, 134108.	3.0	22
48	An efficient algorithm for solving nonlinear equations with a minimal number of trial vectors: Applications to atomic-orbital based coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2008, 128, 204105.	3.0	21
49	Cluster perturbation theory. II. Excitation energies for a coupled cluster target state. <i>Journal of Chemical Physics</i> , 2019, 150, 134109.	3.0	21
50	Update methods in multiconfigurational self-consistent field calculations. <i>Journal of Chemical Physics</i> , 1982, 77, 6109-6130.	3.0	19
51	A view on coupled cluster perturbation theory using a bivariational Lagrangian formulation. <i>Journal of Chemical Physics</i> , 2016, 144, 064103.	3.0	18
52	Non-orthogonal internally contracted multi-configurational perturbation theory (NICPT): Dynamic electron correlation for large, compact active spaces. <i>Journal of Chemical Physics</i> , 2017, 147, 174106.	3.0	18
53	Equation-of-motion coupled cluster perturbation theory revisited. <i>Journal of Chemical Physics</i> , 2014, 140, 174114.	3.0	17
54	Cluster perturbation theory. III. Perturbation series for coupled cluster singles and doubles excitation energies. <i>Journal of Chemical Physics</i> , 2019, 150, 134110.	3.0	17

#	ARTICLE	IF	CITATIONS
55	Divergent behavior of Møller-Plesset perturbation theory for molecular electric dipole and quadrupole moments. <i>Journal of Chemical Physics</i> , 1999, 110, 7127-7128.	3.0	16
56	A multiconfiguration self-consistent-field response study of one- and two-photon dipole transitions between the $X^1\Sigma^+$ and $A^1\Sigma^+$ states of CO. <i>Journal of Chemical Physics</i> , 1995, 102, 4143-4150.	3.0	15
57	Cluster perturbation theory. IV. Convergence of cluster perturbation series for energies and molecular properties. <i>Journal of Chemical Physics</i> , 2019, 150, 134111.	3.0	14
58	Attosecond electronic dynamics of core-excited states of N_2O in the soft x-ray region. <i>Physical Review Research</i> , 2021, 3, .	3.6	14
59	Response to "Comment on 'The exactness of the extended Koopmans' theorem: A numerical study'". <i>J. Chem. Phys.</i> 99, 6221 (1993)]. <i>Journal of Chemical Physics</i> , 1993, 99, 6222-6223.	3.0	13
60	Robust and Reliable Multilevel Minimization of the Kohn-Sham Energy. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1027-1032.	5.3	12
61	Convergence patterns and rates in two-state perturbation expansions. <i>Journal of Chemical Physics</i> , 2019, 151, 084108.	3.0	11
62	Cluster perturbation theory. V. Theoretical foundation for cluster linear target states. <i>Journal of Chemical Physics</i> , 2019, 150, 134112.	3.0	11
63	Dynamic correlation for non-orthogonal reference states: Improved perturbational and variational methods. <i>Journal of Chemical Physics</i> , 2018, 149, 144104.	3.0	9
64	Cluster perturbation theory. VI. Ground-state energy series using the Lagrangian. <i>Journal of Chemical Physics</i> , 0, , .	3.0	9
65	A direct method to transform between expansions in the configuration state function and Slater determinant bases. <i>Journal of Chemical Physics</i> , 2014, 141, 034112.	3.0	8
66	Generalising localisation schemes of orthogonal orbitals to the localisation of non-orthogonal orbitals. <i>Molecular Physics</i> , 2017, 115, 16-25.	1.7	8
67	Second- and higher-order convergence in linear and nonlinear multiconfigurational Hartree-Fock theory. <i>International Journal of Quantum Chemistry</i> , 1983, 24, 25-60.	2.0	7
68	Cluster Perturbation Theory. VII. The convergence of Cluster Perturbation Expansions. <i>Journal of Chemical Physics</i> , 0, , .	3.0	7
69	Convergence of coupled cluster perturbation theory. <i>Journal of Chemical Physics</i> , 2016, 145, 224104.	3.0	6
70	Cluster perturbation theory. VIII. First order properties for a coupled cluster state. <i>Journal of Chemical Physics</i> , 0, , .	3.0	5
71	The energy, orbitals and electric properties of the ozone molecule with ensemble density functional theory. <i>Molecular Physics</i> , 2013, 111, 1259-1270.	1.7	4
72	The evaluation of MCRPA (MCTDHF) electronic excitation energies, oscillator strengths, and polarizabilities: Application to O ₂ . <i>International Journal of Quantum Chemistry</i> , 1981, 20, 151-162.	2.0	3

#	ARTICLE	IF	CITATIONS
73	Collecting all intermediates with an optimal scaling for the generalised-active-space coupled-cluster method with application to SbH. <i>Molecular Physics</i> , 2017, 115, 90-108.	1.7	2
74	A direct implementation of the second-order derivatives of multiconfigurational SCF energies and an analysis of the preconditioning in the associated response equation. <i>Molecular Physics</i> , 1999, 96, 617-628.	1.7	1