

Mark R Hoffmann

List of Publications by Citations

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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.

50
papers

989
citations

18
h-index

30
g-index

52
ext. papers

1,096
ext. citations

2.8
avg, IF

4.69
L-index

#	Paper	IF	Citations
50	iCI: Iterative CI toward full CI. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 1169-78	6.4	90
49	Explication and revision of generalized Van Vleck perturbation theory for molecular electronic structure. <i>Journal of Chemical Physics</i> , 2002 , 117, 4133-4145	3.9	88
48	The Ground State Electronic Energy of Benzene. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8922-8924	3.4	52
47	Canonical Van Vleck Quasidegenerate Perturbation Theory with Trigonometric Variables. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6125-6130		51
46	Comparative study of multireference perturbative theories for ground and excited states. <i>Journal of Chemical Physics</i> , 2009 , 131, 204104	3.9	48
45	SDS: the static-dynamic-static framework for strongly correlated electrons. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	46
44	Configuration-driven unitary group approach for generalized Van Vleck variant multireference perturbation theory. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4374-80	2.8	44
43	A self-consistent version of quasidegenerate perturbation theory. <i>Journal of Chemical Physics</i> , 1998 , 108, 8317-8330	3.9	44
42	Embedding theory for excited states. <i>Journal of Chemical Physics</i> , 2010 , 133, 044107	3.9	39
41	Third-order complete active space self-consistent field based generalized Van Vleck perturbation theory. <i>Chemical Physics Letters</i> , 1993 , 210, 193-200	2.5	37
40	Theoretical Study of 1-Methoxy-2-sulfanylethan-1-yl Cation: Insight into Intermediates in Glycosidation Reactions. <i>Journal of Organic Chemistry</i> , 1999 , 64, 1247-1253	4.2	35
39	Iterative Configuration Interaction with Selection. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2296-2316	6.4	34
38	Macroconfigurations in molecular electronic structure theory. <i>International Journal of Quantum Chemistry</i> , 2004 , 99, 210-220	2.1	34
37	Density differences in embedding theory with external orbital orthogonality. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 9182-200	2.8	30
36	Further development of SDSPT2 for strongly correlated electrons. <i>Molecular Physics</i> , 2017 , 115, 2696-2707	2.7	26
35	Molecular gradients for the second-order generalized Van Vleck variant of multireference perturbation theory. <i>Journal of Chemical Physics</i> , 2003 , 119, 651-660	3.9	23
34	A theoretical study of low-lying electronic states of aminonitrene, phosphinonitrene, and phosphinocarbene. <i>Journal of Chemical Physics</i> , 1991 , 94, 8029-8039	3.9	23

33	On the Orthogonality of Orbitals in Subsystem Kohn-Sham Density Functional Theory. <i>Annual Reports in Computational Chemistry</i> , 2012 , 8, 53-70	1.8	20
32	iVI: An iterative vector interaction method for large eigenvalue problems. <i>Journal of Computational Chemistry</i> , 2017 , 38, 2481-2499	3.5	16
31	Accurate Dissociation of Chemical Bonds Using DFT-in-DFT Embedding Theory with External Orbital Orthogonality. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 256-264	2.8	15
30	A Theoretical Study of Substituted Dioxiranes: Difluorodioxirane, Fluorofluoroxydioxirane, (Fluoroimino)dioxirane, and Hydrazodioxirane. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 521-526	2.8	15
29	On the inclusion of triple and quadruple electron excitations into MRCISD for multiple states. <i>Chemical Physics Letters</i> , 2010 , 493, 1-10	2.5	14
28	GVVPT2 multireference perturbation theory description of diatomic scandium, chromium, and manganese. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4590-601	2.8	12
27	Lagrangian approach for geometrical derivatives and nonadiabatic coupling terms in MRCISD. <i>Molecular Physics</i> , 2010 , 108, 2703-2716	1.7	12
26	Ground and Low-Lying Excited Electronic States of Difluorodiazirine. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 3119-3124	2.8	11
25	Perturbative triple and quadruple excitation corrections to MRCISD. <i>Chemical Physics Letters</i> , 2003 , 372, 674-685	2.5	11
24	Theoretical study of the ground and first excited singlet state potential energy surfaces of disulphur monoxide (S ₂ O). <i>Molecular Physics</i> , 2003 , 101, 1303-1310	1.7	11
23	Low-lying electronic states of difluorodioxirane. <i>Journal of Chemical Physics</i> , 2003 , 118, 10065-10072	3.9	11
22	Use of density functional theory orbitals in the GVVPT2 variant of second-order multistate multireference perturbation theory. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1548-53	2.8	9
21	Multireference generalized Van Vleck perturbation theory (GVVPT2) study of the NCO + HCNO reaction: insight into intermediates. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8831-6	2.8	9
20	Possible use of genealogical spin-adapted functions in the table-CI method. <i>International Journal of Quantum Chemistry</i> , 2001 , 81, 130-134	2.1	9
19	Third-order generalized Van Vleck perturbation theory variant of multireference perturbation theory for electron correlation. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 1855-1873	2.1	8
18	QUASIDEGENERATE PERTURBATION THEORY USING EFFECTIVE HAMILTONIANS. <i>Advanced Series in Physical Chemistry</i> , 1995 , 1166-1190		8
17	Model Studies of Intersystem Crossing Effects in the O + H ₂ Reaction. <i>ACS Symposium Series</i> , 2002 , 329-345	3.4	7
16	Further Development of iCIPT2 for Strongly Correlated Electrons. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 949-964	6.4	7

15	Fluorofluoroxydioxirane and Other CF ₂ O ₃ Isomers. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 779-790	2.8	6
14	Coriolis coupling effect of state-to-state quantum dynamics for He + HeH ⁺ . <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	5
13	Hamiltonian Matrix Elements for the Table-CI Method Using Genealogical Configuration State Functions. <i>ACS Symposium Series</i> , 2002 , 176-198	0.4	5
12	GVVPT2 multireference perturbation theory study of selenium oxides. <i>Molecular Physics</i> , 2013 , 111, 1078-1091	1.7	4
11	A nondiagonal quasidegenerate fourth-order perturbation theory. <i>Journal of Mathematical Chemistry</i> , 1996 , 20, 351-364	2.1	4
10	Relative phase control over tunneling ionization of H ₂ ⁺ with a synthesized Ξ laser pulse. <i>Physical Review A</i> , 2014 , 90,	2.6	3
9	Overview: Accurate Description of Low-Lying Electronic States and Potential Energy Surfaces. <i>ACS Symposium Series</i> , 2002 , 1-8	0.4	3
8	MRCISD and GVVPT3 study of the low-lying electronic states of NO. <i>Molecular Physics</i> , 2009 , 107, 889-897	1.7	2
7	On the development and implementation of multi-CPU parallel versions of accurate, general purpose, methods of multireference perturbation theories. <i>Advances in Quantum Chemistry</i> , 2020 , 105-144	1.4	1
6	An Efficient Storage Format for Storing Configuration Interaction Sparse Matrices on CPU/GPU 2017 ,		1
5	Second-order generalized Van Vleck perturbation theory calculations of potential energy curves for the dissociation of the C-H bond in methane. <i>Molecular Physics</i> , 2007 , 105, 2819-2827	1.7	1
4	Table-CI with macroconfiguration approach for describing electronic states of molecules in intense radiation fields. <i>International Journal of Quantum Chemistry</i> , 2005 , 105, 921-928	2.1	1
3	Study of iridium silicide monolayers using density functional theory. <i>Journal of Applied Physics</i> , 2018 , 123, 074301	2.5	0
2	Low-Lying Electronic States of the Nickel Dimer. <i>Frontiers in Chemistry</i> , 2021 , 9, 678930	5	
1	Theoretical Calculations of the 242 nm Absorption of Propargyl Radical. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 8595-8602	2.8	