

Jir Pittner

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66

papers

2,397

citations

29

h-index

47

g-index

68

ext. papers

2,561

ext. citations

3.6

avg, IF

5.09

L-index

#	Paper	IF	Citations
66	Newton-X: a surface-hopping program for nonadiabatic molecular dynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 26-33	7.9	280
65	Surface Hopping Dynamics with Correlated Single-Reference Methods: 9H-Adenine as a Case Study. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1395-405	6.4	139
64	Surface hopping dynamics using a locally diabatic formalism: charge transfer in the ethylene dimer cation and excited state dynamics in the 2-pyridone dimer. <i>Journal of Chemical Physics</i> , 2012 , 137, 22A514	3.9	139
63	Non-adiabatic dynamics of pyrrole: Dependence of deactivation mechanisms on the excitation energy. <i>Chemical Physics</i> , 2010 , 375, 26-34	2.3	115
62	Multireference state-specific Mukherjee's coupled cluster method with noniterative triexcitations. <i>Journal of Chemical Physics</i> , 2008 , 129, 184105	3.9	98
61	Nonadiabatic molecular dynamics study of the cis-trans photoisomerization of azobenzene excited to the S1 state. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 11136-43	2.8	97
60	Optimization of mixed quantum-classical dynamics: Time-derivative coupling terms and selected couplings. <i>Chemical Physics</i> , 2009 , 356, 147-152	2.3	90
59	Multireference Brillouin-Wigner coupled clusters method with noniterative perturbative connected triples. <i>Journal of Chemical Physics</i> , 2006 , 124, 144112	3.9	71
58	State-Specific Brillouin-Wigner Multireference Coupled Cluster Study of the Singlet-Triplet Separation in the Tetramethyleneethane Diradical. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1354-1356	2.8	66
57	Multireference Brillouin-Wigner coupled cluster method with singles, doubles, and triples: efficient implementation and comparison with approximate approaches. <i>Journal of Chemical Physics</i> , 2008 , 128, 104108	3.9	59
56	Coupled Cluster Method with Single and Double Excitations Tailored by Matrix Product State Wave Functions. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4072-4078	6.4	59
55	A Local Pair Natural Orbital-Based Multireference Mukherjee's Coupled Cluster Method. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3104-14	6.4	53
54	Towards the multireference Brillouin-Wigner coupled-clusters method with iterative connected triples: MR BWCCSDT-alpha approximation. <i>Journal of Chemical Physics</i> , 2005 , 122, 181101	3.9	50
53	Multireference Mukherjee's coupled cluster method with triexcitations in the linked formulation: Efficient implementation and applications. <i>Journal of Chemical Physics</i> , 2010 , 132, 154105	3.9	48
52	The singlet-triplet gap in trimethylenmethane and the ring-opening of methylenecyclopropane: a multireference Brillouin-Wigner coupled cluster study. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 11765-9	2.8	48
51	Multireference state-specific Mukherjee's coupled cluster method with noniterative triexcitations using uncoupled approximation. <i>Journal of Chemical Physics</i> , 2011 , 134, 154106	3.9	43
50	Analytic gradient for the multireference Brillouin-Wigner coupled cluster method and for the state-universal multireference coupled cluster method. <i>Journal of Chemical Physics</i> , 2007 , 127, 114103	3.9	42

49	Absorption and fluorescence of PRODAN in phospholipid bilayers: a combined quantum mechanics and classical molecular dynamics study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 11428-37	2.8	41
48	Quantum computing applied to calculations of molecular energies: CH ₂ benchmark. <i>Journal of Chemical Physics</i> , 2010 , 133, 194106	3.9	41
47	Ab initio nonadiabatic dynamics study of ultrafast radiationless decay over conical intersections illustrated on the Na ₃ F cluster. <i>Journal of Chemical Physics</i> , 2006 , 125, 24303	3.9	38
46	Four- and 8-reference state-specific Brillouin-Wigner coupled-cluster method: Study of the singlet oxygen. <i>International Journal of Quantum Chemistry</i> , 2002 , 90, 1031-1037	2.1	38
45	Method of moments for the continuous transition between the Brillouin-Wigner-type and Rayleigh-Schrödinger-type multireference coupled cluster theories. <i>Molecular Physics</i> , 2009 , 107, 1209-1227	1.7	34
44	Communication: Application of state-specific multireference coupled cluster methods to core-level excitations. <i>Journal of Chemical Physics</i> , 2012 , 137, 171101	3.9	34
43	Multireference Coupled-Cluster Methods: Recent Developments. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010 , 455-489	0.7	33
42	Adiabatic state preparation study of methylene. <i>Journal of Chemical Physics</i> , 2014 , 140, 214111	3.9	30
41	Multiple pathways in the photodynamics of a polar C-H bond: A case study of silaethylene. <i>Chemical Physics Letters</i> , 2006 , 418, 377-382	2.5	30
40	Multireference F12 coupled cluster theory: The Brillouin-Wigner approach with single and double excitations. <i>Chemical Physics Letters</i> , 2011 , 511, 418-423	2.5	29
39	Uncoupled multireference state-specific Mukherjee's coupled cluster method with triexcitations. <i>Journal of Chemical Physics</i> , 2010 , 133, 134106	3.9	29
38	Multireference Brillouin-Wigner Coupled Cluster Singles and Doubles Study of the Singlet-Triplet Separation in Alkylcarbenes. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 3125-3128	2.8	29
37	An explicitly correlated Mukherjee's state specific coupled cluster method: development and pilot applications. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4753-62	3.6	25
36	Relativistic quantum chemistry on quantum computers. <i>Physical Review A</i> , 2012 , 85,	2.6	25
35	Four-Reference State-Specific Brillouin-Wigner Coupled-Cluster Method: Study of the IBr Molecule. <i>International Journal of Molecular Sciences</i> , 2001 , 2, 281-290	6.3	25
34	Numerical and Theoretical Aspects of the DMRG-TCC Method Exemplified by the Nitrogen Dimer. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 2206-2220	6.4	25
33	Domain-Based Local Pair Natural Orbital Version of Mukherjee's State-Specific Coupled Cluster Method. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1370-1382	6.4	24
32	The Intricate Case of Tetramethyleneethane: A Full Configuration Interaction Quantum Monte Carlo Benchmark and Multireference Coupled Cluster Studies. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 2439-2445	6.4	24

31	Multireference Brillouin-Wigner Coupled Cluster Singles and Doubles (MRBWCCSD) and Multireference Doubles Configuration Interaction (MRD-CI) Calculations for the Bergman Cyclization Reaction. <i>Collection of Czechoslovak Chemical Communications</i> , 2003 , 68, 2309-2321		24
30	Parallel Implementation of Multireference Coupled-Cluster Theories Based on the Reference-Level Parallelism. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 487-97	6.4	23
29	Multireference configuration interaction and coupled-cluster calculations on the X ³ Σ ⁻ and b ¹ Σ ⁺ states of the NF molecule. <i>International Journal of Quantum Chemistry</i> , 2005 , 104, 458-467	2.1	22
28	Massively parallel implementation of the multireference Brillouin-Wigner CCSD method. <i>Chemical Physics Letters</i> , 2011 , 514, 347-351	2.5	21
27	Quantum chemistry beyond Born-Oppenheimer approximation on a quantum computer: A simulated phase estimation study. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 1328-1336	2.1	21
26	A new approach to molecular dynamics with non-adiabatic and spin-orbit effects with applications to QM/MM simulations of thiophene and selenophene. <i>Journal of Chemical Physics</i> , 2017 , 146, 114101	3.9	19
25	Universal state-selective corrections to multi-reference coupled-cluster theories with single and double excitations. <i>Journal of Chemical Physics</i> , 2012 , 136, 124102	3.9	19
24	Implementation of the multireference Brillouin-Wigner and Mukherjee's coupled cluster methods with non-iterative triple excitations utilizing reference-level parallelism. <i>Journal of Chemical Physics</i> , 2012 , 137, 094112	3.9	16
23	Coupled Cluster Study of Polycyclopentanes: Structure and Properties of C ₅ H _{2n} , n = 0-4. <i>Collection of Czechoslovak Chemical Communications</i> , 2008 , 73, 1525-1551		15
22	Orientation of Laurdan in Phospholipid Bilayers Influences Its Fluorescence: Quantum Mechanics and Classical Molecular Dynamics Study. <i>Molecules</i> , 2018 , 23,	4.8	12
21	Multireference coupled cluster study of the oxyallyl diradical. <i>Chemical Physics</i> , 2012 , 401, 203-207	2.3	12
20	Toward the efficient local tailored coupled cluster approximation and the peculiar case of oxo-Mn(Salen). <i>Journal of Chemical Physics</i> , 2019 , 151, 084112	3.9	11
19	Fluorescence of PRODAN in water: A computational QM/MM MD study. <i>Chemical Physics Letters</i> , 2014 , 597, 57-62	2.5	11
18	Towards large-scale calculations with State-Specific Multireference Coupled Cluster methods: Studies on dodecane, naphthynes, and polycarbenes. <i>Chemical Physics Letters</i> , 2012 , 542, 128-133	2.5	11
17	Perturbative triples correction for explicitly correlated Mukherjee's state-specific coupled cluster method. <i>Molecular Physics</i> , 2013 , 111, 2477-2488	1.7	10
16	Ground state of the Fe(II)-porphyrin model system corresponds to quintet: a DFT and DMRG-based tailored CC study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17033-17037	3.6	10
15	Multireference R12 Coupled Cluster Theory. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010 , 251-266	0.7	9
14	Toward DMRG-tailored coupled cluster method in the 4c-relativistic domain. <i>Journal of Chemical Physics</i> , 2020 , 152, 174107	3.9	8

13	Photophysics of BODIPY-Based Photosensitizer for Photodynamic Therapy: Surface Hopping and Classical Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5046-5057	6.4	8
12	Perturbative triples correction to domain-based local pair natural orbital variants of Mukherjee's state specific coupled cluster method. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5022-5038	3.6	7
11	Near-Linear Scaling in DMRG-Based Tailored Coupled Clusters: An Implementation of DLPNO-TCCSD and DLPNO-TCCSD(T). <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 3028-3040	6.4	7
10	An Isolated Molecule of Iron(II) Phthalocyanin Exhibits Quintet Ground-State: A Nexus between Theory and Experiment. <i>Chemistry - A European Journal</i> , 2018 , 24, 13413-13417	4.8	7
9	Variational quantum eigensolver for approximate diagonalization of downfolded Hamiltonians using generalized unitary coupled cluster ansatz. <i>Quantum Science and Technology</i> , 2021 , 6, 034008	5.5	7
8	A MRCC study of the isomerisation of cyclopropane. <i>Molecular Physics</i> , 2017 , 115, 2743-2754	1.7	6
7	Perturbative universal state-selective correction for state-specific multi-reference coupled cluster methods. <i>Journal of Chemical Physics</i> , 2016 , 145, 164106	3.9	6
6	Quantum information-based analysis of electron-deficient bonds. <i>Journal of Chemical Physics</i> , 2019 , 150, 204117	3.9	5
5	Iterative universal state selective correction for the Brillouin-Wigner multireference coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2015 , 142, 114106	3.9	5
4	Multireference coupled cluster method based on the Brillouin-Wigner perturbation theory 2005 , 465-481		5
3	Quantum Computing Approach to Nonrelativistic and Relativistic Molecular Energy Calculations. <i>Advances in Chemical Physics</i> , 2014 , 107-136		2
2	Coupled Cluster Theories for Strongly Correlated Molecular Systems. <i>Springer Series in Solid-state Sciences</i> , 2013 , 237-271	0.4	2
1	Theoretical Investigation of the Effect of Alkylation and Bromination on Intersystem Crossing in BODIPY-Based Photosensitizers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 11617-11627	3.4	1