

Jae Woo Park

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

971
citations

471477

17
h-index

477281

29
g-index

31
all docs

31
docs citations

31
times ranked

1208
citing authors

#	ARTICLE	IF	CITATIONS
1	A structural remedy toward bright dipolar fluorophores in aqueous media. <i>Chemical Science</i> , 2015, 6, 4335-4342.	7.4	144
2	Analytical Derivative Coupling for Multistate CASPT2 Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2561-2570.	5.3	109
3	On-the-Fly CASPT2 Surface-Hopping Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3676-3683.	5.3	100
4	Multireference Electron Correlation Methods: Journeys along Potential Energy Surfaces. <i>Chemical Reviews</i> , 2020, 120, 5878-5909.	47.7	86
5	Electric Field Keeps Chromophore Planar and Produces High Yield Fluorescence in Green Fluorescent Protein. <i>Journal of the American Chemical Society</i> , 2016, 138, 13619-13629.	13.7	72
6	All-Atom Semiclassical Dynamics Study of Quantum Coherence in Photosynthetic Fennaâ€“Matthewsâ€“Olson Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 11640-11651.	13.7	61
7	Experimental and theoretical determination of the accurate CH/ï€ interaction energies in benzeneâ€“alkane clusters: correlation between interaction energy and polarizability. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14131.	2.8	52
8	Molecular-Shape-Dependent Luminescent Behavior of Dye Aggregates: Bent versus Linear Benzocoumarins. <i>Crystal Growth and Design</i> , 2014, 14, 6613-6619.	3.0	39
9	Imaginary Shift in CASPT2 Nuclear Gradient and Derivative Coupling Theory. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4088-4098.	5.3	30
10	Effect of Chromophore Potential Model on the Description of Excitonâ€“Phonon Interactions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2875-2880.	4.6	27
11	Condensed phase molecular dynamics using interpolated potential energy surfaces with application to the resolution process of coumarin 153. <i>Journal of Chemical Physics</i> , 2011, 135, 014107.	3.0	26
12	Emission shaping in fluorescent proteins: role of electrostatics and ï€-stacking. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3944-3955.	2.8	24
13	Coherent intermolecular proton transfer in the acidâ€“base reaction of excited state pyranine. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18243-18251.	2.8	21
14	Single-State Single-Reference and Multistate Multireference Zeroth-Order Hamiltonians in MS-CASPT2 and Conical Intersections. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3960-3973.	5.3	21
15	Analytical Gradient Theory for Quasidegenerate N -Electron Valence State Perturbation Theory (QD-NEVPT2). <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 326-339.	5.3	19
16	On the accuracy of retinal protonated Schiff base models. <i>Molecular Physics</i> , 2018, 116, 2583-2590.	1.7	18
17	Analytical Gradient Theory for Strongly Contracted (SC) and Partially Contracted (PC) N -Electron Valence State Perturbation Theory (NEVPT2). <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5417-5425.	5.3	18
18	Interpolated Mechanicsâ€“Molecular Mechanics Study of Internal Rotation Dynamics of the Chromophore Unit in Blue Fluorescent Protein and Its Variants. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11137-11147.	2.6	16

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19	Second-Order Orbital Optimization with Large Active Spaces Using Adaptive Sampling Configuration Interaction (ASCI) and Its Application to Molecular Geometry Optimization. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1522-1534.	5.3	15
20	Towards the Realization of Ab Initio Dynamics at the Speed of Molecular Mechanics: Simulations with Interpolated Diabatic Hamiltonian. <i>ChemPhysChem</i> , 2014, 15, 3183-3193.	2.1	12
21	Analytical First-Order Derivatives of Second-Order Extended Multiconfiguration Quasi-Degenerate Perturbation Theory (XMCQDPT2): Implementation and Application. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5562-5571.	5.3	11
22	Constructing polyatomic potential energy surfaces by interpolating diabatic Hamiltonian matrices with demonstration on green fluorescent protein chromophore. <i>Journal of Chemical Physics</i> , 2014, 140, 164112.	3.0	10
23	Diabatic Population Matrix Formalism for Performing Molecular Mechanics Style Simulations with Multiple Electronic States. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5238-5253.	5.3	9
24	Near-Exact CASSCF-Level Geometry Optimization with a Large Active Space using Adaptive Sampling Configuration Interaction Self-Consistent Field Corrected with Second-Order Perturbation Theory (ASCI-SCF-PT2). <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4092-4104.	5.3	9
25	Interpolation for molecular dynamics simulations: from ions in gas phase to proteins in solution. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 573-577.	2.0	7
26	Analytical Gradient Theory for Resolvent-Fitted Second-Order Extended Multiconfiguration Perturbation Theory (XMCQDPT2). <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6122-6133.	5.3	7
27	Analytical Gradient Theory for Spin-Free State-Averaged Second-Order Driven Similarity Renormalization Group Perturbation Theory (SA-DSRG-MRPT2) and Its Applications for Conical Intersection Optimizations. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 2233-2245.	5.3	5
28	Nonheme Iron Imido Complexes Bearing a Non-Innocent Ligand: A Synthetic Chameleon Species in Oxidation Reactions. <i>Chemistry - A European Journal</i> , 2021, 27, 17495-17503.	3.3	2
29	Can Adenosine Triarsenate Role as an Energy Carrier?. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 361-362.	1.9	1
30	Quantum Chemistry Based Arguments about Singlet Oxygen Formation Trends from Fluorescent Proteins. <i>Rapid Communication in Photoscience</i> , 2016, 5, 18-20.	0.1	0