

# Claudia Filippi

## List of Publications by Year in descending order

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34  
papers

2,577  
citations

236612

25  
h-index

377514

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alleviation of the Fermion-Sign Problem by Optimization of Many-Body Wave Functions. <i>Physical Review Letters</i> , 2007, 98, 110201.	2.9	411
2	Multiconfiguration wave functions for quantum Monte Carlo calculations of first-row diatomic molecules. <i>Journal of Chemical Physics</i> , 1996, 105, 213-226.	1.2	213
3	Mixed time-dependent density-functional theory/classical trajectory surface hopping study of oxirane photochemistry. <i>Journal of Chemical Physics</i> , 2008, 129, 124108.	1.2	182
4	Energy and Variance Optimization of Many-Body Wave Functions. <i>Physical Review Letters</i> , 2005, 94, 150201.	2.9	155
5	Absorption Spectrum of the Green Fluorescent Protein Chromophore: A Difficult Case for ab Initio Methods?. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2074-2087.	2.3	134
6	Photoisomerization of Model Retinal Chromophores: Insight from Quantum Monte Carlo and Multiconfigurational Perturbation Theory. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1275-1292.	2.3	126
7	Electronic Excitations of Simple Cyanine Dyes: Reconciling Density Functional and Wave Function Methods. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 444-455.	2.3	124
8	Size-consistent variational approaches to nonlocal pseudopotentials: Standard and lattice regularized diffusion Monte Carlo methods revisited. <i>Journal of Chemical Physics</i> , 2010, 132, 154113.	1.2	102
9	Bathochromic Shift in Green Fluorescent Protein: A Puzzle for QM/MM Approaches. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 112-124.	2.3	94
10	Correlated sampling in quantum Monte Carlo: A route to forces. <i>Physical Review B</i> , 2000, 61, R16291-R16294.	1.1	89
11	Optimized Jastrow-Slater wave functions for ground and excited states: Application to the lowest states of ethene. <i>Journal of Chemical Physics</i> , 2004, 120, 10931-10941.	1.2	82
12	Rhodopsin Absorption from First Principles: Bypassing Common Pitfalls. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2441-2454.	2.3	81
13	State-Specific Embedding Potentials for Excitation-Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2355-2367.	2.3	70
14	Taming the Complexity of Donor-Acceptor Stenhouse Adducts: Infrared Motion Pictures of the Complete Switching Pathway. <i>Journal of the American Chemical Society</i> , 2019, 141, 7376-7384.	6.6	66
15	Chromophore-Protein Coupling beyond Nonpolarizable Models: Understanding Absorption in Green Fluorescent Protein. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4825-4839.	2.3	65
16	Excitations in photoactive molecules from quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2004, 121, 5836-5844.	1.2	60
17	Wavefunction in Density Functional Theory Embedding for Excited States: Which Wavefunctions, which Densities?. <i>ChemPhysChem</i> , 2014, 15, 3205-3217.	1.0	60
18	Ground- and Excited-State Geometry Optimization of Small Organic Molecules with Quantum Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5513-5525.	2.3	52

#	ARTICLE	IF	CITATIONS
19	Excitation energies of retinal chromophores: critical role of the structural model. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11015.	1.3	48
20	Simple formalism for efficient derivatives and multi-determinant expansions in quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2016, 144, 194105.	1.2	45
21	Spin contamination in quantum Monte Carlo wave functions. <i>Journal of Chemical Physics</i> , 1998, 108, 8838-8847.	1.2	44
22	Perturbatively Selected Configuration-Interaction Wave Functions for Efficient Geometry Optimization in Quantum Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4176-4182.	2.3	42
23	Optimizing the Energy with Quantum Monte Carlo: A Lower Numerical Scaling for Jastrow-Slater Expansions. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5273-5281.	2.3	39
24	Excited States with Selected Configuration Interaction-Quantum Monte Carlo: Chemically Accurate Excitation Energies and Geometries. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4896-4906.	2.3	34
25	Introducing QMC/MMpol: Quantum Monte Carlo in Polarizable Force Fields for Excited States. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1674-1683.	2.3	28
26	Electrostatic versus Resonance Interactions in Photoreceptor Proteins: The Case of Rhodopsin. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4547-4553.	2.1	25
27	The key to the yellow-to-cyan tuning in the green fluorescent protein family is polarisation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18988-18998.	1.3	21
28	Variational Principles in Quantum Monte Carlo: The Troubled Story of Variance Minimization. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4203-4212.	2.3	17
29	Tailoring CIPSI Expansions for QMC Calculations of Electronic Excitations: The Case Study of Thiophene. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3426-3434.	2.3	17
30	Solvent Effects on Excited-State Structures: A Quantum Monte Carlo and Density Functional Study. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5528-5537.	2.3	12
31	Multiple-Resonance Local Wave Functions for Accurate Excited States in Quantum Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1157-1168.	2.3	11
32	Energy Derivatives in Real-Space Diffusion Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 118-123.	2.3	9
33	Reference Excitation Energies of Increasingly Large Molecules: A QMC Study of Cyanine Dyes. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1089-1095.	2.3	7
34	Photoprogramming Allostery in Human Serum Albumin. <i>Bioconjugate Chemistry</i> , 2018, 29, 2215-2224.	1.8	3