Nandini Ananth

List of Publications by Year
in descending order

28 papers	1,398 citations	471509 17 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	1183 citing authors

#	Article	IF	Citations
1	The Low-Lying Electronic States of Pentacene and Their Roles in Singlet Fission. Journal of the American Chemical Society, 2014, 136, 5755-5764.	13.7	197
2	A Direct Mechanism of Ultrafast Intramolecular Singlet Fission in Pentacene Dimers. ACS Central Science, 2016, 2, 316-324.	11.3	176
3	Tuning Singlet Fission in Ï€-Bridge-Ï€ Chromophores. Journal of the American Chemical Society, 2017, 139, 12488-12494.	13.7	147
4	Seeking Small Molecules for Singlet Fission: A Heteroatom Substitution Strategy. Journal of the American Chemical Society, 2014, 136, 12638-12647.	13.7	121
5	Mapping variable ring polymer molecular dynamics: A path-integral based method for nonadiabatic processes. Journal of Chemical Physics, 2013, 139, 124102.	3.0	119
6	Direct simulation of electron transfer using ring polymer molecular dynamics: Comparison with semiclassical instanton theory and exact quantum methods. Journal of Chemical Physics, 2011, 135, 074106.	3.0	105
7	Semiclassical description of electronically nonadiabatic dynamics via the initial value representation. Journal of Chemical Physics, 2007, 127, 084114.	3.0	97
8	Exact quantum statistics for electronically nonadiabatic systems using continuous path variables. Journal of Chemical Physics, 2010, 133, 234103.	3.0	71
9	Simulating Excited State Dynamics in Systems with Multiple Avoided Crossings Using Mapping Variable Ring Polymer Molecular Dynamics. Journal of Physical Chemistry Letters, 2015, 6, 4219-4223.	4.6	37
10	Mean field ring polymer molecular dynamics for electronically nonadiabatic reaction rates. Faraday Discussions, 2016, 195, 253-268.	3.2	36
11	Dynamically consistent method for mixed quantum-classical simulations: A semiclassical approach. Journal of Chemical Physics, 2015, 142, 184102.	3.0	33
12	Deriving the exact nonadiabatic quantum propagator in the mapping variable representation. Faraday Discussions, 2016, 195, 269-289.	3.2	32
13	Nonadiabatic semiclassical dynamics in the mixed quantum-classical initial value representation. Journal of Chemical Physics, 2018, 148, 102326.	3.0	32
14	Validating and implementing modified Filinov phase filtration in semiclassical dynamics. Journal of Chemical Physics, 2017, 146, 234104.	3.0	30
15	A mapping variable ring polymer molecular dynamics study of condensed phase proton-coupled electron transfer. Journal of Chemical Physics, 2017, 147, 234103.	3.0	25
16	Anticipating Acene-Based Chromophore Spectra with Molecular Orbital Arguments. Journal of Physical Chemistry A, 2019, 123, 2527-2536.	2.5	21
17	Flux-correlation approach to characterizing reaction pathways in quantum systems: a study of condensed-phase proton-coupled electron transfer. Molecular Physics, 2012, 110, 1009-1015.	1.7	17
18	Non-adiabatic reactions: general discussion. Faraday Discussions, 2016, 195, 311-344.	3.2	15

#	Article	IF	Citations
19	Singlet fission and triplet pair recombination in bipentacenes with a twist. Materials Horizons, 2022, 9, 462-470.	12.2	14
20	Direct simulation of electron transfer in the cobalt hexammine(<scp>ii</scp>/<scp>iii</scp>) self-exchange reaction. Physical Chemistry Chemical Physics, 2016, 18, 26117-26124.	2.8	13
21	Semiclassical dynamics in the mixed quantum-classical limit. Journal of Chemical Physics, 2019, 151, 134109.	3.0	13
22	Path Integrals for Nonadiabatic Dynamics: Multistate Ring Polymer Molecular Dynamics. Annual Review of Physical Chemistry, 2022, 73, 299-322.	10.8	12
23	Tuning Spin-States of Carbynes and Silylynes: A Long Jump with One Leg. Journal of the American Chemical Society, 2014, 136, 13388-13398.	13.7	11
24	Multistate ring polymer instantons and nonadiabatic reaction rates. Journal of Chemical Physics, 2020, 152, 114112.	3.0	8
25	Anomalous orbital admixture in ammine complexes. Journal of Organometallic Chemistry, 2015, 792, 6-12.	1.8	5
26	Tuning the Ground State Symmetry of Acetylenyl Radicals. ACS Central Science, 2015, 1, 270-278.	11.3	5
27	Singularity-Free Internal Conversion Golden Rule Rate with Application to Correlated Triplet-Pair Recombination in Bipentacenes. Journal of Chemical Physics, 2022, 156, 044111.	3.0	4
28	Investigating the Stability and Accuracy of a Classical Mapping Variable Hamiltonian for Nonadiabatic Quantum Dynamics. Regular and Chaotic Dynamics, 2021, 26, 131-146.	0.8	2