David Picconi

List of Publications by Year
in descending order

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24	312	933410	839512
papers	citations	10	18
		h-index	g-index

27	27	27	388
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Following excited-state chemical shifts in molecular ultrafast x-ray photoelectron spectroscopy. Nature Communications, 2022, 13, 198.	12.8	24
2	Experimental and theoretical gas-phase absorption spectra of thionated uracils. Chemical Physics, 2022, 558, 111500.	1.9	4
3	Quantum dynamics of the photoinduced charge separation in a symmetric donorâ€“acceptorâ€“donor triad: The role of vibronic couplings, symmetry and temperature. Journal of Chemical Physics, 2022, 156, 184105.	3.0	4
4	Nonadiabatic quantum dynamics of the coherent excited state intramolecular proton transfer of 10-hydroxybenzo[h]quinoline. Photochemical and Photobiological Sciences, 2021, 20, 1455-1473.	2.9	2
5	Ultrafast dynamics of 2-thiouracil investigated by time-resolved Auger spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 54, 014002.	1.5	10
6	Open system dynamics using Gaussian-based multiconfigurational time-dependent Hartree wavefunctions: Application to environment-modulated tunneling. Journal of Chemical Physics, 2019, 150, 224106.	3.0	8
7	Quantum dynamics and spectroscopy of dihalogens in solid matrices. I. Efficient simulation of the photodynamics of the embedded I2Kr18 cluster using the G-MCTDH method. Journal of Chemical Physics, 2019, 150, 064111.	3.0	11
8	Quantum dynamics and spectroscopy of dihalogens in solid matrices. II. Theoretical aspects and G-MCTDH simulations of time-resolved coherent Raman spectra of SchrÃ¶dinger cat states of the embedded I2Kr18 cluster. Journal of Chemical Physics, 2019, 150, 064112.	3.0	10
9	Time-resolved spectra of I₂ in a krypton crystal by G-MCTDH simulations: nonadiabatic dynamics, dissipation and environment driven decoherence. Faraday Discussions, 2019, 221, 30-58.	3.2	8
10	Spectroscopic signatures of quantum effects: general discussion. Faraday Discussions, 2019, 221, 322-349.	3.2	2
11	Quantum coherence in complex environments: general discussion. Faraday Discussions, 2019, 221, 168-201.	3.2	5
12	Creation and Detection of Molecular SchrÃ¶dinger Cat States: Iodine in Cryogenic Krypton Observed via Four-Wave-Mixing Optics. Springer Proceedings in Physics, 2019, , 91-112.	0.2	0
13	Photodissociation dynamics in the first absorption band of pyrrole. I. Molecular Hamiltonian and the Herzberg-Teller absorption spectrum for the Ã21(Ï€Ïƒ*)â†Ìƒ1â€‰Ã1(Ï€Ï€) transition. Journal of Chemical Physics, 2018, 148, 104103.	3.0	12
14	Photodissociation dynamics in the first absorption band of pyrrole. II. Photofragment distributions for the 1A2(Ï€Ïƒ*)â†Ìƒ1A1(Ï€Ï€) transition. Journal of Chemical Physics, 2018, 148, 104104.	3.0	10
15	Entanglement of the molecular photodissociation products at avoided crossings and conical intersections. Chemical Physics, 2018, 515, 60-70.	1.9	1
16	Fano resonances in the photoinduced H-atom elimination dynamics in the Ï€Ïƒ* states of pyrrole. Physical Chemistry Chemical Physics, 2017, 19, 14902-14906.	2.8	9
17	Photodissociation dynamics of the pyridinyl radical: Time-dependent quantum wave-packet calculations. Journal of Chemical Physics, 2017, 146, 124304.	3.0	18
18	Partial dissociative emission cross sections and product state distributions of the resulting photofragments. Chemical Physics, 2016, 481, 231-236.	1.9	2

#	Article	IF	Citations
19	Intermediate photofragment distributions as probes of non-adiabatic dynamics at conical intersections: application to the Hartley band of ozone. Physical Chemistry Chemical Physics, 2015, 17, 28931-28942.	2.8	7
20	Signatures of a conical intersection in photofragment distributions and absorption spectra: Photodissociation in the Hartley band of ozone. Journal of Chemical Physics, 2014, 141, 074311.	3.0	11
21	Quantum-classical effective-modes dynamics of the Ï€Ï€* â†' nÏ€* decay in 9H-adenine. A quadratic vibronic coupling model. Faraday Discussions, 2013, 163, 223.	3.2	42
22	Electronic Circular Dichroism in Exciton-Coupled Dimers: Vibronic Spectra from a General All-Coordinates Quantum-Dynamical Approach. Journal of Physical Chemistry A, 2013, 117, 3355-3368.	2.5	23
23	Hierarchical transformation of Hamiltonians with linear and quadratic couplings for nonadiabatic quantum dynamics: Application to the Ï€Ï€*/nÏ€* internal conversion in thymine. Journal of Chemical Physics, 2012, 136, 244104.	3.0	44
24	The Interplay between Ï€Ï€*/nÏ€* Excited States in Gasâ€Phase Thymine: A Quantum Dynamical Study. ChemPhysChem, 2011, 12, 1957-1968.	2.1	43