

Mario Barbatti

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178
papers

7,379
citations

46
h-index

80
g-index

201
ext. papers

8,234
ext. citations

5
avg, IF

6.62
L-index

#	Paper	IF	Citations
178	The on-the-fly surface-hopping program system Newton-X: Application to ab initio simulation of the nonadiabatic photodynamics of benchmark systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 190, 228-240	4.7	366
177	Relaxation mechanisms of UV-photoexcited DNA and RNA nucleobases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21453-8	11.5	323
176	Nonadiabatic dynamics with trajectory surface hopping method. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011 , 1, 620-633	7.9	302
175	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
174	Recent Advances and Perspectives on Nonadiabatic Mixed Quantum-Classical Dynamics. <i>Chemical Reviews</i> , 2018 , 118, 7026-7068	68.1	270
173	Multireference Approaches for Excited States of Molecules. <i>Chemical Reviews</i> , 2018 , 118, 7293-7361	68.1	181
172	The UV absorption of nucleobases: semi-classical ab initio spectra simulations. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 4959-67	3.6	179
171	Nonadiabatic deactivation of 9H-adenine: a comprehensive picture based on mixed quantum-classical dynamics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6831-9	16.4	178
170	Spectrum simulation and decomposition with nuclear ensemble: formal derivation and application to benzene, furan and 2-phenylfuran. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	175
169	Ultrafast internal conversion pathway and mechanism in 2-(2'-hydroxyphenyl)benzothiazole: a case study for excited-state intramolecular proton transfer systems. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1406-15	3.6	154
168	Evaluation of Spin-Orbit Couplings with Linear-Response Time-Dependent Density Functional Methods. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 515-524	6.4	152
167	Photochemistry of ethylene: a multireference configuration interaction investigation of the excited-state energy surfaces. <i>Journal of Chemical Physics</i> , 2004 , 121, 11614-24	3.9	150
166	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
165	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, 22A5149	3.9	139
164	Non-adiabatic dynamics of pyrrole: Dependence of deactivation mechanisms on the excitation energy. <i>Chemical Physics</i> , 2010 , 375, 26-34	2.3	115
163	The nonadiabatic deactivation paths of pyrrole. <i>Journal of Chemical Physics</i> , 2006 , 125, 164323	3.9	99
162	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

161	Excited-state diproton transfer in [2,2'-bipyridyl]-3,3'-diol: the mechanism is sequential, not concerted. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8490-9	2.8	96
160	Structure-Function Relationships of High-Electron Mobility Naphthalene Diimide Copolymers Prepared Via Direct Arylation. <i>Chemistry of Materials</i> , 2014 , 26, 6233-6240	9.6	94
159	Critical appraisal of excited state nonadiabatic dynamics simulations of 9H-adenine. <i>Journal of Chemical Physics</i> , 2012 , 137, 22A503	3.9	90
158	Optimization of mixed quantum-classical dynamics: Time-derivative coupling terms and selected couplings. <i>Chemical Physics</i> , 2009 , 356, 147-152	2.3	90
157	Effects of different initial condition samplings on photodynamics and spectrum of pyrrole. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 762-771	2.1	90
156	Automerization reaction of cyclobutadiene and its barrier height: an ab initio benchmark multireference average-quadratic coupled cluster study. <i>Journal of Chemical Physics</i> , 2006 , 125, 64310	3.9	87
155	Nonadiabatic Excited-State Dynamics with Machine Learning. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5660-5663	6.4	87
154	Photodynamics simulations of thymine: relaxation into the first excited singlet state. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12686-93	2.8	82
153	The interplay of skeletal deformations and ultrafast excited-state intramolecular proton transfer: Experimental and theoretical investigation of 10-hydroxybenzo[h]quinoline. <i>Chemical Physics</i> , 2008 , 347, 446-461	2.3	82
152	Photodynamical simulations of cytosine: characterization of the ultrafast bi-exponential UV deactivation. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6145-55	3.6	79
151	Nonadiabatic dynamics of uracil: population split among different decay mechanisms. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5247-55	2.8	77
150	Nonadiabatic excited-state dynamics of polar pi-systems and related model compounds of biological relevance. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 482-94	3.6	76
149	Photorelaxation induced by water-chromophore electron transfer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10246-9	16.4	75
148	Electronically excited states and photodynamics: a continuing challenge. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	69
147	The photodynamics of ethylene: a surface-hopping study on structural aspects. <i>Journal of Chemical Physics</i> , 2005 , 122, 174307	3.9	68
146	Nonadiabatic excited-state dynamics with hybrid ab initio quantum-mechanical/molecular-mechanical methods: solvation of the pentadieniminium cation in apolar media. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 6757-65	2.8	67
145	The decay mechanism of photoexcited guanine - a nonadiabatic dynamics study. <i>Journal of Chemical Physics</i> , 2011 , 134, 014304	3.9	66
144	Photophysics and deactivation pathways of thymine. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 8273-9	2.8	66

143	Semiempirical molecular dynamics investigation of the excited state lifetime of ethylene. <i>Chemical Physics Letters</i> , 2005 , 401, 276-281	2.5	65
142	Does stacking restrain the photodynamics of individual nucleobases?. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8261-3	16.4	64
141	Excited-state non-adiabatic dynamics simulations of pyrrole. <i>Molecular Physics</i> , 2009 , 107, 845-854	1.7	64
140	Can the nonadiabatic photodynamics of aminopyrimidine be a model for the ultrafast deactivation of adenine?. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2852-8	2.8	61
139	The effect of hydrogen bonding on the excited-state proton transfer in 2-(2'-hydroxyphenyl)benzothiazole: a TDDFT molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9016-25	3.6	60
138	Ultrafast two-step process in the non-adiabatic relaxation of the CH ₂ molecule. <i>Molecular Physics</i> , 2006 , 104, 1053-1060	1.7	60
137	UV excitation and radiationless deactivation of imidazole. <i>Journal of Chemical Physics</i> , 2009 , 130, 034305	3.9	57
136	The effects of the presence of an alkaline atomic cation in a molecular hydrogen environment. <i>Journal of Chemical Physics</i> , 2001 , 114, 2213-2218	3.9	55
135	Nonadiabatic photodynamics of a retinal model in polar and nonpolar environment. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2790-9	2.8	50
134	Surface Hopping Dynamics with DFT Excited States. <i>Topics in Current Chemistry</i> , 2016 , 368, 415-44		48
133	Dynamics starting at a conical intersection: application to the photochemistry of pyrrole. <i>Journal of Chemical Physics</i> , 2009 , 131, 024312	3.9	48
132	Stepwise double excited-state proton transfer is not possible in 7-azaindole dimer. <i>Chemical Science</i> , 2015 , 6, 5762-5767	9.4	42
131	Simulation of the photodeactivation of formamide in the nO-pi* and pi-pi* states: an ab initio on-the-fly surface-hopping dynamics study. <i>Journal of Chemical Physics</i> , 2007 , 127, 234303	3.9	42
130	Excited-state properties and environmental effects for protonated schiff bases: a theoretical study. <i>ChemPhysChem</i> , 2006 , 7, 2089-96	3.2	42
129	Isomeric structures and energies of H _n ⁺ clusters (n=13, 15, and 17). <i>Journal of Chemical Physics</i> , 2000 , 113, 4230-4237	3.9	42
128	Azomethane: nonadiabatic photodynamical simulations in solution. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12585-90	2.8	39
127	Excited-state intermolecular proton transfer reactions of 7-azaindole(MeOH)(n) (n = 1-3) clusters in the gas phase: on-the-fly dynamics simulation. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14129-36	2.8	39
126	Modeling ultrafast exciton deactivation in oligothiophenes via nonadiabatic dynamics. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7787-99	3.6	38

125	Molecular excited states through a machine learning lens. <i>Nature Reviews Chemistry</i> , 2021 , 5, 388-405	34.6	38
124	Ultrafast non-adiabatic dynamics of ethylene including Rydberg states. <i>Molecular Physics</i> , 2013 , 111, 2439-2450	1.7	37
123	Is the photoinduced isomerization in retinal protonated Schiff bases a single- or double-torsional process?. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11907-18	2.8	37
122	Why Replacing Different Oxygens of Thymine with Sulfur Causes Distinct Absorption and Intersystem Crossing. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6342-50	2.8	36
121	Interfacial States in Donor-Acceptor Organic Heterojunctions: Computational Insights into Thiophene-Oligomer/Fullerene Junctions. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 533-42	6.4	36
120	A multireference configuration interaction investigation of the excited-state energy surfaces of fluoroethylene (C ₂ H ₃ F). <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5168-75	2.8	34
119	Nonadiabatic Dynamics of Cycloparaphenylenes with TD-DFTB Surface Hopping. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5846-5860	6.4	33
118	Unveiling the Role of Hot Charge-Transfer States in Molecular Aggregates via Nonadiabatic Dynamics. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4502-11	16.4	32
117	Ultrafast dynamics of UV-excited imidazole. <i>ChemPhysChem</i> , 2011 , 12, 3365-75	3.2	32
116	Ultrafast Photoinduced Dynamics of 1,3-Cyclohexadiene Using XMS-CASPT2 Surface Hopping. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3929-3940	6.4	30
115	Hot and Cold Charge-Transfer Mechanisms in Organic Photovoltaics: Insights into the Excited States of Donor/Acceptor Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4727-4734	6.4	30
114	Mechanism of Ultrafast Photodecay in Restricted Motions in Protonated Schiff Bases: The Pentadieniminium Cation. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 1189-99	6.4	30
113	Multiple pathways in the photodynamics of a polar π -bond: A case study of silaethylene. <i>Chemical Physics Letters</i> , 2006 , 418, 377-382	2.5	30
112	Photodynamics of azomethane: a nonadiabatic surface-hopping study. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8778-85	2.8	29
111	On the decay of the triplet state of thionucleobases. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12674-12682	6.4	28
110	Photoinduced processes in nucleic acids. <i>Topics in Current Chemistry</i> , 2015 , 355, 1-32		27
109	Photochemical steps in the prebiotic synthesis of purine precursors from HCN. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8000-3	16.4	27
108	Machine Learning for Absorption Cross Sections. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7199-7210	2.8	27

107	Steady and Time-Resolved Photoelectron Spectra Based on Nuclear Ensembles. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 5037-5049	6.4	27
106	Matrix-controlled photofragmentation of formamide: dynamics simulation in argon by nonadiabatic QM/MM method. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12719-26	3.6	26
105	The role of tautomers in the UV absorption of urocanic acid. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4686-92	3.6	26
104	Tailoring the Schiff base photoswitching - a non-adiabatic molecular dynamics study of substituent effect on excited state proton transfer. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5318-5325	3.6	25
103	Effect of substituents on the excited-state dynamics of the modified DNA bases 2,4-diaminopyrimidine and 2,6-diaminopurine. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5375-88	3.6	25
102	Ionization potentials of adenine along the internal conversion pathways. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15492-500	3.6	25
101	The electronically excited states of RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine): Vertical excitations. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 2348-2355	2.1	25
100	Why water makes 2-aminopurine fluorescent?. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15452-9	3.6	24
99	Cr(CO) ₆ photochemistry: semi-classical study of UV absorption spectral intensities and dynamics of photodissociation. <i>Journal of Chemical Physics</i> , 2011 , 134, 164305	3.9	24
98	The structure and the thermochemical properties of the H ₃ +(H ₂) _n clusters (n=8-12). <i>Journal of Chemical Physics</i> , 2001 , 114, 7066-7072	3.9	24
97	New Insights into the State Trapping of UV-Excited Thymine. <i>Molecules</i> , 2016 , 21,	4.8	23
96	The generality of the GUGA MRCI approach in COLUMBUS for treating complex quantum chemistry. <i>Journal of Chemical Physics</i> , 2020 , 152, 134110	3.9	22
95	Vibrational analysis of small H _n ⁺ hydrogen clusters. <i>Journal of Chemical Physics</i> , 2003 , 119, 5444-5448	3.9	22
94	On the origin of the shift between vertical excitation and band maximum in molecular photoabsorption. <i>Journal of Molecular Modeling</i> , 2020 , 26, 107	2	22
93	Photochemistry of CH ₃ Cl: Dissociation and CH ₂ Cl Hydrogen Bond Formation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 272-80	16.4	21
92	Choosing the right molecular machine learning potential. <i>Chemical Science</i> , 2021 , 12, 14396-14413	9.4	21
91	Torsional potentials and full-dimensional simulation of electronic absorption and fluorescence spectra of para-phenylene oligomers using the semiempirical self-consistent charge density-functional tight binding approach. <i>Journal of Chemical Physics</i> , 2008 , 129, 164905	3.9	20
90	The effect of protonation on the photodissociation processes in formamide [An ab initio surface hopping dynamics study. <i>Chemical Physics</i> , 2008 , 349, 308-318	2.3	20

89	The effect of C5 substitution on the photochemistry of uracil. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 4924-33	3.6	19
88	Quantum chemical calculations of electronically excited states: formamide, its protonated form and alkali cation complexes as case studies. <i>Monatshefte Für Chemie</i> , 2008 , 139, 319-328	1.4	19
87	Computational reference data for the photochemistry of cyclobutane pyrimidine dimers. <i>ChemPhysChem</i> , 2014 , 15, 3342-54	3.2	18
86	Photo-stability of peptide-bond aggregates: N-methylformamide dimers. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18877-87	3.6	17
85	Excited-State Proton Transfer Can Tune the Color of Protein Fluorescent Markers. <i>ChemPhysChem</i> , 2015 , 16, 3444-9	3.2	17
84	Absorption and fluorescence spectra of poly(p-phenylenevinylene) (PPV) oligomers: an ab initio simulation. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1787-95	2.8	17
83	Influence of the active space on CASSCF nonadiabatic dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 3307-3315	2.1	17
82	Clustering of Hydrogen Molecules around a Molecular Cation: The $\text{Li}_3^+(\text{H}_2)_n$ Clusters ($n = 1-6$). <i>Journal of Physical Chemistry A</i> , 2002 , 106, 551-555	2.8	17
81	Dynamics of benzene excimer formation from the parallel-displaced dimer. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13916-13924	3.6	16
80	Computational and Methodological Elements for Nonadiabatic Trajectory Dynamics Simulations of Molecules. <i>Advanced Series in Physical Chemistry</i> , 2011 , 415-462		16
79	An ab initio study of the excited States, isomerization energy profiles and conical intersections of a chiral cyclohexylidene derivative. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 238-43	2.8	16
78	Generalized oscillator strengths for C 1s excitation of acetylene and ethylene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002 , 123, 303-314	1.7	16
77	Sensitivity of femtosecond quantum dynamics and control with respect to non-adiabatic couplings: Model simulations for the cis-trans isomerization of the dideuterated methaniminium cation. <i>Chemical Physics</i> , 2008 , 350, 145-153	2.3	15
76	Theoretical investigation of the mode-specific induced non-radiative decay in 2-pyridone. <i>Chemical Physics</i> , 2008 , 349, 278-286	2.3	15
75	MLatom 2: An Integrative Platform for Atomistic Machine Learning. <i>Topics in Current Chemistry</i> , 2021 , 379, 27	7.2	15
74	Nuclear Ensemble Approach with Importance Sampling. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 3173-3183	6.4	14
73	Dynamics simulations of excited-state triple proton transfer in 7-azaindole complexes with water, water-methanol and methanol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 266, 28-36	4.7	14
72	The photodynamics of 2,4-diaminopyrimidine in comparison with 4-aminopyrimidine: The effect of amino-substitution. <i>Chemical Physics Letters</i> , 2010 , 497, 129-134	2.5	14

71	Insights on the Auxochromic Properties of the Guanidinium Group. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 7088-100	2.8	13
70	Photochemical deactivation process of HCFC-133a (C ₂ H ₂ F ₃ Cl): a nonadiabatic dynamics study. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 12041-9	2.8	13
69	Theoretical study of the excitation spectrum of azomethane. <i>Chemical Physics</i> , 2011 , 380, 9-16	2.3	13
68	TORSIONAL POTENTIALS AND FULL-DIMENSIONAL SIMULATION OF ELECTRONIC ABSORPTION SPECTRA OF para-PHENYLENEVINYLENE OLIGOMERS USING SEMIEMPIRICAL HAMILTONIANS. <i>Journal of Theoretical and Computational Chemistry</i> , 2010 , 09, 249-263	1.8	13
67	Intersystem crossing dynamics in singly substituted thiouracil studied by time-resolved photoelectron spectroscopy: Micro-environmental effects due to sulfur position. <i>Chemical Physics</i> , 2018 , 515, 572-579	2.3	12
66	Photochemistry of N-methylformamide: matrix isolation and nonadiabatic dynamics. <i>ChemPhysChem</i> , 2013 , 14, 827-36	3.2	12
65	Ab initio study of the photochemistry of aminopyrimidine. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 1266-1276	2.1	12
64	Velocity Adjustment in Surface Hopping: Ethylene as a Case Study of the Maximum Error Caused by Direction Choice. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 3010-3018	6.4	12
63	The photophysics of naphthalene dimers controlled by sulfur bridge oxidation. <i>Chemical Science</i> , 2017 , 8, 4941-4950	9.4	11
62	Divide-to-Conquer: A Kinetic Model for Singlet Oxygen Photosensitization. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5528-5538	6.4	11
61	Theoretical study on excited-state intermolecular proton transfer reactions of 1H-pyrrolo[3,2-h]quinoline with water and methanol. <i>Theoretical Chemistry Accounts</i> , 2013 , 132, 1	1.9	11
60	Effects of the second hydration shell on excited-state multiple proton transfer: dynamics simulations of 7-azaindole:(H ₂ O) ₁₈ clusters in the gas phase. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	10
59	Photoinduced Phenomena in Nucleic Acids II. <i>Topics in Current Chemistry</i> , 2015 ,		10
58	Event-by-event analysis of collision-induced cluster-ion fragmentation: sequential monomer evaporation versus fission reactions. <i>Physical Review Letters</i> , 2001 , 86, 4263-6	7.4	10
57	Spatial Factors for Triplet Fusion Reaction of Singlet Oxygen Photosensitization. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5456-5460	6.4	9
56	Promoting Intersystem Crossing of a Fluorescent Molecule via Single Functional Group Modification. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1388-1393	6.4	9
55	Theoretical characterization of absorption and emission spectra of an asymmetric porphycene. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3366-76	2.8	9
54	Electronic spectra of nitroethylene. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 1225-1232	2.1	9

53	Photochemical Steps in the Prebiotic Synthesis of Purine Precursors from HCN. <i>Angewandte Chemie</i> , 2013 , 125, 8158-8161	3.6	9
52	Generalized oscillator strength for core excitations of nitrous oxide. <i>Chemical Physics</i> , 2004 , 299, 83-88	2.3	9
51	On-the-fly dynamics simulations of transient anions. <i>Journal of Chemical Physics</i> , 2019 , 151, 224104	3.9	9
50	Simulation of Excitation by Sunlight in Mixed Quantum-Classical Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 4849-4856	6.4	8
49	Nonadiabatic Dynamics of Charge-Transfer States Using the Anthracene-Tetracyanoethylene Complex as a Prototype. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3347-3357	2.8	8
48	Nonadiabatic dynamics simulations of photoexcited urocanic acid. <i>Chemical Physics</i> , 2018 , 515, 521-534	2.3	8
47	The effect of hydrogen bonding on the nonadiabatic dynamics of a thymine-water cluster. <i>Chemical Physics</i> , 2018 , 515, 472-479	2.3	7
46	Photochemistry of CFCl: Quenching of Charged Fragments Is Caused by Nonadiabatic Effects. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 4844-4855	6.4	7
45	Experimental and theoretical investigations on photoabsorption and photoionization of trimethylphosphate in the vacuum-ultraviolet energy range. <i>Journal of Chemical Physics</i> , 2012 , 137, 184303	3.9	7
44	New Generation UV-A Filters: Understanding Their Photodynamics on a Human Skin Mimic. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 337-344	6.4	7
43	High-Resolution Near-Edge X-ray Absorption Fine Structure Study of Condensed Polyacenes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28692-28701	3.8	7
42	Mechanism of Spin-Exchange Internal Conversion: Practical Proxies for Diabatic and Nonadiabatic Couplings. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1503-1513	6.4	6
41	Photoinduced Formation of H-Bonded Ion Pair in HCFC-133a. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1953-1961	2.8	6
40	Electronic states of porphycene-O ₂ complex and photoinduced singlet O ₂ production. <i>Journal of Chemical Physics</i> , 2013 , 139, 074307	3.9	6
39	Nonadiabatic dynamics study of methaniminium with ORMAS: Challenges of incomplete active spaces in dynamics simulations. <i>Computational and Theoretical Chemistry</i> , 2014 , 1040-1041, 158-166	2	6
38	Formamide as the Model Compound for Photodissociation Studies of the Peptide Bond. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010 , 77-106	0.7	6
37	Young-type interference pattern in molecular inner-shell excitations by electron impact. <i>Physical Review A</i> , 2005 , 72,	2.6	6
36	Time-Dependent Density Functional Theory 2020 , 13-46		6

35	Nonadiabatic dynamics in multidimensional complex potential energy surfaces. <i>Chemical Science</i> , 2020 , 11, 9827-9835	9.4	6
34	UV excitations of halons. <i>Journal of Chemical Physics</i> , 2016 , 145, 184306	3.9	6
33	Excitonic and charge transfer interactions in tetracene stacked and T-shaped dimers. <i>Journal of Chemical Physics</i> , 2021 , 154, 044306	3.9	6
32	Electronic structure of fullerene-squaraine complexes for photovoltaic devices. <i>Computational and Theoretical Chemistry</i> , 2014 , 1040-1041, 237-242	2	5
31	A three-state model for the photo-Fries rearrangement. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19103-19108	3.6	5
30	High-Level Quantum Chemical Methods for the Study of Photochemical Processes. <i>Lecture Notes in Computer Science</i> , 2005 , 1004-1011	0.9	5
29	On the formation mechanisms of hydrogen ionic clusters. <i>Brazilian Journal of Physics</i> , 2003 , 33, 792-797	1.2	5
28	Mechanism of enhanced triplet decay of thionucleobase by glycosylation and rate-modulating strategies. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16428-16436	3.6	5
27	Simulations of molecular photodynamics in long timescales.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20200382	3	5
26	Guanidine and guanidinium cation in the excited state--theoretical investigation. <i>Journal of Chemical Physics</i> , 2014 , 141, 074307	3.9	4
25	Nonadiabatic Excited-State Dynamics of Aromatic Heterocycles: Toward the Time-Resolved Simulation of Nucleobases. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2008 , 209-235	3.7	4
24	Experimental and theoretical study of S 2p and C 1s spectroscopy in CS ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007 , 156-158, 158-163	1.7	4
23	Fewest switches surface hopping with Baeck-An couplings. <i>Open Research Europe</i> , 1, 49		4
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