

Dave Townsend

List of Publications by Year in descending order

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52
papers

2,975
citations

236925
25
h-index

189892
50
g-index

52
all docs

52
docs citations

52
times ranked

2340
citing authors

#	ARTICLE	IF	CITATIONS
1	The Roaming Atom: Straying from the Reaction Path in Formaldehyde Decomposition. Science, 2004, 306, 1158-1161.	12.6	538
2	Direct current slice imaging. Review of Scientific Instruments, 2003, 74, 2530-2539.	1.3	366
3	Ab Initio Molecular Dynamics and Time-Resolved Photoelectron Spectroscopy of Electronically Excited Uracil and Thymine. Journal of Physical Chemistry A, 2007, 111, 8500-8508.	2.5	355
4	Dynamic Stark Control of Photochemical Processes. Science, 2006, 314, 278-281.	12.6	329
5	Primary processes underlying the photostability of isolated DNA bases: Adenine. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10196-10201.	7.1	186
6	Time-resolved photoelectron imaging of excited state relaxation dynamics in phenol, catechol, resorcinol, and hydroquinone. Journal of Chemical Physics, 2012, 137, 184304.	3.0	96
7	Negative-Frequency Resonant Radiation. Physical Review Letters, 2012, 108, 253901.	7.8	85
8	Following the excited state relaxation dynamics of indole and 5-hydroxyindole using time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 2011, 135, 194307.	3.0	57
9	A Stark Future for Quantum Control. Journal of Physical Chemistry A, 2011, 115, 357-373.	2.5	55
10	Universal and State-Resolved Imaging of Chemical Dynamics. Journal of Physical Chemistry A, 2005, 109, 8661-8674.	2.5	50
11	Manipulating dynamics with chemical structure: probing vibrationally-enhanced tunnelling in photoexcited catechol. Physical Chemistry Chemical Physics, 2013, 15, 6879.	2.8	48
12	Deflection of krypton Rydberg atoms in the field of an electric dipole. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 439-450.	1.5	45
13	Ultraviolet relaxation dynamics of aniline, <i>N,N</i> -dimethylaniline and 3,5-dimethylaniline at 250 nm. Journal of Chemical Physics, 2015, 142, 114309.	3.0	42
14	O(1D2) orbital orientation in the ultraviolet photodissociation of ozone. Physical Chemistry Chemical Physics, 2005, 7, 1650.	2.8	41
15	Solvent induced conformer specific photochemistry of guaiacol. Physical Chemistry Chemical Physics, 2014, 16, 16187.	2.8	41
16	Rotationally Resolved Photoelectron Angular Distributions from a Nonlinear Polyatomic Molecule. Physical Review Letters, 2009, 102, 253002.	7.8	38
17	Reassignment of the low lying cationic states in gas phase adenine and 9-methyl adenine. Chemical Physics Letters, 2006, 430, 144-148.	2.6	35
18	A new technique for probing chirality via photoelectron circular dichroism. Analytica Chimica Acta, 2017, 984, 134-139.	5.4	35

#	ARTICLE	IF	CITATIONS
19	The role of novel Rydberg-valence behaviour in the non-adiabatic dynamics of tertiary aliphatic amines. <i>Chemical Science</i> , 2016, 7, 1826-1839.	7.4	34
20	B ₂ (Σ^+) excited state decay dynamics in CS ₂ . <i>Journal of Chemical Physics</i> , 2006, 125, 234302.	3.0	33
21	Ultrafast non-radiative decay of gas-phase nucleosides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23643-23650.	2.8	31
22	The effects of symmetry and rigidity on non-adiabatic dynamics in tertiary amines: a time-resolved photoelectron velocity-map imaging study of the cage-amine ABCO. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9715-9723.	2.8	31
23	Ultrafast relaxation dynamics of electronically excited piperidine: ionization signatures of Rydberg/valence evolution. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25070-25079.	2.8	29
24	Following the relaxation dynamics of photoexcited aniline in the 273-266 nm region using time-resolved photoelectron imaging. <i>Journal of Chemical Physics</i> , 2013, 139, 034316.	3.0	28
25	Ultrafast Molecular Spectroscopy Using a Hollow-Core Photonic Crystal Fiber Light Source. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 715-720.	4.6	26
26	Ultraviolet relaxation dynamics in uracil: Time-resolved photoion yield studies using a laser-based thermal desorption source. <i>Journal of Chemical Physics</i> , 2018, 149, 034301.	3.0	25
27	Photoionization dynamics probed by angle-resolved photoelectron spectroscopy of NH ₃ (B ₁ Σ^+). <i>Journal of Chemical Physics</i> , 2000, 112, 9783-9790.	3.0	24
28	Orbital polarization from DC slice imaging: S(1D ₂) alignment in the photodissociation of ethylene sulfide. <i>Chemical Physics</i> , 2004, 301, 197-208.	1.9	24
29	DC Slice Imaging of CH ₃ Cl Photolysis at 193.3 nm. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8106-8114.	2.5	22
30	Non-Born-Oppenheimer wavepacket dynamics in polyatomic molecules: vibrations at conical intersections in DABCO. <i>Faraday Discussions</i> , 2011, 150, 419.	3.2	19
31	Observation of multi-channel non-adiabatic dynamics in aniline derivatives using time-resolved photoelectron imaging. <i>Faraday Discussions</i> , 2016, 194, 185-208.	3.2	18
32	The role of phase in molecular Rydberg wave packet dynamics. <i>Journal of Chemical Physics</i> , 2003, 119, 3085-3091.	3.0	17
33	Rotationally inelastic scattering of NO(A ² Σ^+) + Ar: Differential cross sections and rotational angular momentum polarization. <i>Journal of Chemical Physics</i> , 2015, 143, 204301.	3.0	17
34	Time-resolved photoionization spectroscopy of mixed Rydberg-valence states: indole case study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26659-26669.	2.8	16
35	Improved insights in time-resolved photoelectron imaging. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10736-10755.	2.8	14
36	Short-wavelength probes in time-resolved photoelectron spectroscopy: an extended view of the excited state dynamics in acetylacetone. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4647-4658.	2.8	13

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37	Caveats in the interpretation of time-resolved photoionization measurements: A photoelectron imaging study of pyrrole. <i>Journal of Chemical Physics</i> , 2016, 145, 234304.	3.0	12
38	From molecular control to quantum technology with the dynamic Stark effect. <i>Faraday Discussions</i> , 2011, 153, 321.	3.2	11
39	Relative detection sensitivity in ultrafast spectroscopy: state lifetime and laser pulse duration effects. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29409-29417.	2.8	11
40	Rydberg-to-valence evolution in excited state molecular dynamics. <i>International Reviews in Physical Chemistry</i> , 2020, 39, 517-567.	2.3	10
41	Time-resolved photoelectron spectroscopy of nitrobenzene and its aldehydes. <i>Chemical Physics Letters</i> , 2018, 691, 379-387.	2.6	9
42	Artificial Neural Networks for Noise Removal in Data-sparse Charged Particle Imaging Experiments. <i>ChemPhysChem</i> , 2021, 22, 76-82.	2.1	9
43	Dynamics of electronically excited states in the eumelanin building block 5,6-dihydroxyindole. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8152-8160.	2.8	8
44	Ultraviolet Excitation Dynamics of Nitrobenzenes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7174-7184.	2.5	8
45	Dynamics of Pyrroles Excited to the $3s/\pi^*$ State. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8982-8993.	2.5	7
46	Vacuum ultraviolet excited state dynamics of small amides. <i>Journal of Chemical Physics</i> , 2019, 150, 054301.	3.0	7
47	The influence of substituent position on the excited state dynamics operating in 4-, 5- and 6-hydroxyindole. <i>Chemical Physics Letters</i> , 2020, 738, 136870.	2.6	6
48	Arbitrary image reflation: A deep learning technique for recovering 3D photoproduct distributions from a single 2D projection. <i>Review of Scientific Instruments</i> , 2022, 93, 023303.	1.3	6
49	Thermal desorption effects on fragment ion production from multi-photon ionized uridine and selected analogues. <i>RSC Advances</i> , 2021, 11, 20612-20621.	3.6	5
50	Electronic and non-adiabatic dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 209-257.	3.2	3
51	Structural dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 583-620.	3.2	0
52	Attosecond processes and X-ray spectroscopy: general discussion. <i>Faraday Discussions</i> , 2016, 194, 427-462.	3.2	0