

Dave Townsend

List of Publications by Year in descending order

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52
papers

2,975
citations

236833

25
h-index

189801

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. <i>Science</i> , 2004, 306, 1158-1161.	6.0	538
2	Direct current slice imaging. <i>Review of Scientific Instruments</i> , 2003, 74, 2530-2539.	0.6	366
3	Ab Initio Molecular Dynamics and Time-Resolved Photoelectron Spectroscopy of Electronically Excited Uracil and Thymine. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8500-8508.	1.1	355
4	Dynamic Stark Control of Photochemical Processes. <i>Science</i> , 2006, 314, 278-281.	6.0	329
5	Primary processes underlying the photostability of isolated DNA bases: Adenine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10196-10201.	3.3	186
6	Time-resolved photoelectron imaging of excited state relaxation dynamics in phenol, catechol, resorcinol, and hydroquinone. <i>Journal of Chemical Physics</i> , 2012, 137, 184304.	1.2	96
7	Negative-Frequency Resonant Radiation. <i>Physical Review Letters</i> , 2012, 108, 253901.	2.9	85
8	Following the excited state relaxation dynamics of indole and 5-hydroxyindole using time-resolved photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 194307.	1.2	57
9	A Stark Future for Quantum Control. <i>Journal of Physical Chemistry A</i> , 2011, 115, 357-373.	1.1	55
10	Universal and State-Resolved Imaging of Chemical Dynamics. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8661-8674.	1.1	50
11	Manipulating dynamics with chemical structure: probing vibrationally-enhanced tunnelling in photoexcited catechol. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6879.	1.3	48
12	Deflection of krypton Rydberg atoms in the field of an electric dipole. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 439-450.	0.6	45
13	Ultraviolet relaxation dynamics of aniline, <i>N,N</i> -dimethylaniline and 3,5-dimethylaniline at 250 nm. <i>Journal of Chemical Physics</i> , 2015, 142, 114309.	1.2	42
14	O(1D2) orbital orientation in the ultraviolet photodissociation of ozone. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1650.	1.3	41
15	Solvent induced conformer specific photochemistry of guaiacol. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16187.	1.3	41
16	Rotationally Resolved Photoelectron Angular Distributions from a Nonlinear Polyatomic Molecule. <i>Physical Review Letters</i> , 2009, 102, 253002.	2.9	38
17	Reassignment of the low lying cationic states in gas phase adenine and 9-methyl adenine. <i>Chemical Physics Letters</i> , 2006, 430, 144-148.	1.2	35
18	A new technique for probing chirality via photoelectron circular dichroism. <i>Analytica Chimica Acta</i> , 2017, 984, 134-139.	2.6	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.	3.7	34
20	B21(π +1) excited state decay dynamics in CS ₂ . <i>Journal of Chemical Physics</i> , 2006, 125, 234302.	1.2	33
21	Ultrafast non-radiative decay of gas-phase nucleosides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23643-23650.	1.3	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.	1.3	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.	1.3	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.	1.2	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.	2.1	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.	1.2	25
27	Photoionization dynamics probed by angle-resolved photoelectron spectroscopy of NH ₃ (B $\bar{1}$ \bar{f} \bar{a} \bar{e} $\bar{3}$). <i>Journal of Chemical Physics</i> , 2000, 112, 9783-9790.	1.2	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.	0.9	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.	1.1	22
30	Non-Born-Oppenheimer wavepacket dynamics in polyatomic molecules: vibrations at conical intersections in DABCO. <i>Faraday Discussions</i> , 2011, 150, 419.	1.6	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.	1.6	18
32	The role of phase in molecular Rydberg wave packet dynamics. <i>Journal of Chemical Physics</i> , 2003, 119, 3085-3091.	1.2	17
33	Rotationally inelastic scattering of NO(A $\bar{2}$ $\bar{1}$ $\bar{+}$) + Ar: Differential cross sections and rotational angular momentum polarization. <i>Journal of Chemical Physics</i> , 2015, 143, 204301.	1.2	17
34	Time-resolved photoionization spectroscopy of mixed Rydberg-valence states: indole case study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26659-26669.	1.3	16
35	Improved insights in time-resolved photoelectron imaging. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10736-10755.	1.3	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.	1.3	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.	1.2	12
38	From molecular control to quantum technology with the dynamic Stark effect. <i>Faraday Discussions</i> , 2011, 153, 321.	1.6	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.	1.3	11
40	Rydberg-to-valence evolution in excited state molecular dynamics. <i>International Reviews in Physical Chemistry</i> , 2020, 39, 517-567.	0.9	10
41	Time-resolved photoelectron spectroscopy of nitrobenzene and its aldehydes. <i>Chemical Physics Letters</i> , 2018, 691, 379-387.	1.2	9
42	Artificial Neural Networks for Noise Removal in Data-sparse Charged Particle Imaging Experiments. <i>ChemPhysChem</i> , 2021, 22, 76-82.	1.0	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.	1.3	8
44	Ultraviolet Excitation Dynamics of Nitrobenzenes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7174-7184.	1.1	8
45	Dynamics of Pyrroles Excited to the $3s\sigma^*$ State. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8982-8993.	1.1	7
46	Vacuum ultraviolet excited state dynamics of small amides. <i>Journal of Chemical Physics</i> , 2019, 150, 054301.	1.2	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.	1.2	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.	0.6	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.	1.7	5
50	Electronic and non-adiabatic dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 209-257.	1.6	3
51	Structural dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 583-620.	1.6	0
52	Attosecond processes and X-ray spectroscopy: general discussion. <i>Faraday Discussions</i> , 2016, 194, 427-462.	1.6	0