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	Arbitrary image reinflation: A deep learning technique for recovering 3D photoproduct distributions from a single 2D projection. Review of Scientific Instruments, 2022, 93, 023303.	0.6	6
2	Artificial Neural Networks for Noise Removal in Dataâ€Sparse Charged Particle Imaging Experiments. ChemPhysChem, 2021, 22, 76-82.	1.0	9
3	Improved insights in time-resolved photoelectron imaging. Physical Chemistry Chemical Physics, 2021, 23, 10736-10755.	1.3	14
4	Thermal desorption effects on fragment ion production from multi-photon ionized uridine and selected analogues. RSC Advances, 2021, 11, 20612-20621.	1.7	5
5	Ultraviolet Excitation Dynamics of Nitrobenzenes. Journal of Physical Chemistry A, 2021, 125, 7174-7184.	1.1	8
6	The influence of substituent position on the excited state dynamics operating in 4-, 5- and 6-hydroxyindole. Chemical Physics Letters, 2020, 738, 136870.	1.2	6
7	Rydberg-to-valence evolution in excited state molecular dynamics. International Reviews in Physical Chemistry, 2020, 39, 517-567.	0.9	10
8	Short-wavelength probes in time-resolved photoelectron spectroscopy: an extended view of the excited state dynamics in acetylacetone. Physical Chemistry Chemical Physics, 2020, 22, 4647-4658.	1.3	13
9	Dynamics of Pyrroles Excited to the 3s/Ï€Ïƒ* State. Journal of Physical Chemistry A, 2019, 123, 8982-8993.	1.1	7
10	Ultrafast Molecular Spectroscopy Using a Hollow-Core Photonic Crystal Fiber Light Source. Journal of Physical Chemistry Letters, 2019, 10, 715-720.	2.1	26
11	Dynamics of electronically excited states in the eumelanin building block 5,6-dihydroxyindole. Physical Chemistry Chemical Physics, 2019, 21, 8152-8160.	1.3	8
12	Vacuum ultraviolet excited state dynamics of small amides. Journal of Chemical Physics, 2019, 150, 054301.	1.2	7
13	Time-resolved photoelectron spectroscopy of nitrobenzene and its aldehydes. Chemical Physics Letters, 2018, 691, 379-387.	1.2	9
14	Ultraviolet relaxation dynamics in uracil: Time-resolved photoion yield studies using a laser-based thermal desorption source. Journal of Chemical Physics, 2018, 149, 034301.	1.2	25
15	Relative detection sensitivity in ultrafast spectroscopy: state lifetime and laser pulse duration effects. Physical Chemistry Chemical Physics, 2017, 19, 29409-29417.	1.3	11
16	A new technique for probing chirality via photoelectron circular dichroism. Analytica Chimica Acta, 2017, 984, 134-139.	2.6	35
17	Structural dynamics: general discussion. Faraday Discussions, 2016, 194, 583-620.	1.6	0
18	Attosecond processes and X-ray spectroscopy: general discussion. Faraday Discussions, 2016, 194, 427-462.	1.6	0

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19	Electronic and non-adiabatic dynamics: general discussion. Faraday Discussions, 2016, 194, 209-257.	1.6	3
20	Caveats in the interpretation of time-resolved photoionization measurements: A photoelectron imaging study of pyrrole. Journal of Chemical Physics, 2016, 145, 234304.	1.2	12
21	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. Physical Chemistry Chemical Physics, 2016, 18, 9715-9723.	1.3	31
22	Ultrafast relaxation dynamics of electronically excited piperidine: ionization signatures of Rydberg/valence evolution. Physical Chemistry Chemical Physics, 2016, 18, 25070-25079.	1.3	29
23	Observation of multi-channel non-adiabatic dynamics in aniline derivatives using time-resolved photoelectron imaging. Faraday Discussions, 2016, 194, 185-208.	1.6	18
24	The role of novel Rydberg-valence behaviour in the non-adiabatic dynamics of tertiary aliphatic amines. Chemical Science, 2016, 7, 1826-1839.	3.7	34
25	Rotationally inelastic scattering of NO(A2Î£+) + Ar: Differential cross sections and rotational angular momentum polarization. Journal of Chemical Physics, 2015, 143, 204301.	1.2	17
26	Ultraviolet relaxation dynamics of aniline, N, N-dimethylaniline and 3,5-dimethylaniline at 250 nm. Journal of Chemical Physics, 2015, 142, 114309.	1.2	42
27	Time-resolved photoionization spectroscopy of mixed Rydberg-valence states: indole case study. Physical Chemistry Chemical Physics, 2015, 17, 26659-26669.	1.3	16
28	Ultrafast non-radiative decay of gas-phase nucleosides. Physical Chemistry Chemical Physics, 2015, 17, 23643-23650.	1.3	31
29	Solvent induced conformer specific photochemistry of guaiacol. Physical Chemistry Chemical Physics, 2014, 16, 16187.	1.3	41
30	Manipulating dynamics with chemical structure: probing vibrationally-enhanced tunnelling in photoexcited catechol. Physical Chemistry Chemical Physics, 2013, 15, 6879.	1.3	48
31	Following the relaxation dynamics of photoexcited aniline in the 273-266 nm region using time-resolved photoelectron imaging. Journal of Chemical Physics, 2013, 139, 034316.	1.2	28
32	Time-resolved photoelectron imaging of excited state relaxation dynamics in phenol, catechol, resorcinol, and hydroquinone. Journal of Chemical Physics, 2012, 137, 184304.	1.2	96
33	Negative-Frequency Resonant Radiation. Physical Review Letters, 2012, 108, 253901.	2.9	85
34	From molecular control to quantum technology with the dynamic Stark effect. Faraday Discussions, 2011, 153, 321.	1.6	11
35	Non-Bornâ€“Oppenheimer wavepacket dynamics in polyatomic molecules: vibrations at conical intersections in DABCO. Faraday Discussions, 2011, 150, 419.	1.6	19
36	A Stark Future for Quantum Control. Journal of Physical Chemistry A, 2011, 115, 357-373.	1.1	55

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37	Following the excited state relaxation dynamics of indole and 5-hydroxyindole using time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 2011, 135, 194307.	1.2	57
38	Rotationally Resolved Photoelectron Angular Distributions from a Nonlinear Polyatomic Molecule. Physical Review Letters, 2009, 102, 253002.	2.9	38
39	Ab Initio Molecular Dynamics and Time-Resolved Photoelectron Spectroscopy of Electronically Excited Uracil and Thymine. Journal of Physical Chemistry A, 2007, 111, 8500-8508.	1.1	355
40	Dynamic Stark Control of Photochemical Processes. Science, 2006, 314, 278-281.	6.0	329
41	B21(Î£u+1) excited state decay dynamics in CS2. Journal of Chemical Physics, 2006, 125, 234302.	1.2	33
42	Reassignment of the low lying cationic states in gas phase adenine and 9-methyl adenine. Chemical Physics Letters, 2006, 430, 144-148.	1.2	35
43	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.	3.3	186
44	O(1D2) orbital orientation in the ultraviolet photodissociation of ozone. Physical Chemistry Chemical Physics, 2005, 7, 1650.	1.3	41
45	Universal and State-Resolved Imaging of Chemical Dynamics. Journal of Physical Chemistry A, 2005, 109, 8661-8674.	1.1	50
46	Orbital polarization from DC slice imaging: S(1D2) alignment in the photodissociation of ethylene sulfide. Chemical Physics, 2004, 301, 197-208.	0.9	24
47	DC Slice Imaging of CH3Cl Photolysis at 193.3 nmâ€. Journal of Physical Chemistry A, 2004, 108, 8106-8114.	1.1	22
48	The Roaming Atom: Straying from the Reaction Path in Formaldehyde Decomposition. Science, 2004, 306, 1158-1161.	6.0	538
49	Direct current slice imaging. Review of Scientific Instruments, 2003, 74, 2530-2539.	0.6	366
50	The role of phase in molecular Rydberg wave packet dynamics. Journal of Chemical Physics, 2003, 119, 3085-3091.	1.2	17
51	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.	0.6	45
52	Photoionization dynamics probed by angle-resolved photoelectron spectroscopy of NH3(BÌƒâ€Š1Eâ€³). Journal of Chemical Physics, 2000, 112, 9783-9790.	1.2	24