Caroline Elizabeth Helen Dessent

List of Publications by Year in descending order

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84 papers 2,491 citations

257450 24 h-index 214800 47 g-index

88 all docs 88 docs citations

88 times ranked 1837 citing authors

#	Article	IF	CITATIONS
1	Decolonizing the Undergraduate Chemistry Curriculum: An Account of How to Start. Journal of Chemical Education, 2022, 99, 5-9.	2.3	13
2	What Makes a Professional Chemist? Embedding Equality, Diversity, and Inclusion into Chemistry Skills Training for Undergraduates. Journal of Chemical Education, 2022, 99, 480-486.	2.3	6
3	Emerging contaminant exposure to aquatic systems in the Southern African Development Community. Environmental Toxicology and Chemistry, 2022, 41, 382-395.	4.3	8
4	Photostability of the deprotonated forms of the UV filters homosalate and octyl salicylate: molecular dissociation <i>versus</i> electron detachment following UV excitation. Physical Chemistry Chemical Physics, 2022, 24, 17068-17076.	2.8	3
5	A "one pot―mass spectrometry technique for characterizing solution- and gas-phase photochemical reactions by electrospray mass spectrometry. RSC Advances, 2021, 11, 19500-19507.	3.6	5
6	Linking Electronic Relaxation Dynamics and Ionic Photofragmentation Patterns for the Deprotonated UV Filter Benzophenone-4. Journal of Physical Chemistry Letters, 2021, 12, 2831-2836.	4.6	12
7	Measurement of the Population of Electrosprayed Deprotomers of Coumaric Acids Using UV–Vis Laser Photodissociation Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 6703-6714.	2.5	5
8	Investigating the mapping of chromophore excitations onto the electron detachment spectrum: photodissociation spectroscopy of iodide ion–thiouracil clusters. Physical Chemistry Chemical Physics, 2021, 23, 1021-1030.	2.8	11
9	Photodegradation of Riboflavin under Alkaline Conditions: What Can Gas-Phase Photolysis Tell Us about What Happens in Solution?. Molecules, 2021, 26, 6009.	3.8	7
10	Illuminating the Effect of the Local Environment on the Performance of Organic Sunscreens: Insights From Laser Spectroscopy of Isolated Molecules and Complexes. Frontiers in Chemistry, 2021, 9, 812098.	3.6	8
11	Electron detachment dynamics of the iodide-guanine cluster: does ionization occur from the iodide or from guanine?. Molecular Physics, 2020, 118, e1662128.	1.7	4
12	Photoproducts of the Photodynamic Therapy Agent Verteporfin Identified via Laser Interfaced Mass Spectrometry. Molecules, 2020, 25, 5280.	3.8	4
13	Observation of Enhanced Dissociative Photochemistry in the Non-Native Nucleobase 2-Thiouracil. Molecules, 2020, 25, 3157.	3.8	12
14	Sodium cationization can disrupt the intramolecular hydrogen bond that mediates the sunscreen activity of oxybenzone. Physical Chemistry Chemical Physics, 2020, 22, 19522-19531.	2.8	9
15	Unravelling the Keto–Enol Tautomer Dependent Photochemistry and Degradation Pathways of the Protonated UVA Filter Avobenzone. Journal of Physical Chemistry A, 2020, 124, 2919-2930.	2.5	34
16	Direct Measurement of the Visible to UV Photodissociation Processes for the PhotoCORM TryptoCORM. Chemistry - A European Journal, 2020, 26, 10297-10306.	3.3	8
17	Direct Observation of Photochemical Free Radical Production from the Sunscreen 2â€Phenylbenzimidazoleâ€5â€Sulfonic Acid via Laserâ€Interfaced Mass Spectrometry. ChemPhotoChem, 2019, 3 1231-1237.	3,3.0	14
18	Mapping the intrinsic absorption properties and photodegradation pathways of the protonated and deprotonated forms of the sunscreen oxybenzone. Physical Chemistry Chemical Physics, 2019, 21, 14311-14321.	2.8	24

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19	Near-threshold electron transfer in anion-nucleobase clusters: does the identity of the anion matter?. Molecular Physics, 2019, 117, 3001-3010.	1.7	9
20	Photoexcitation of iodide ion-pyrimidine clusters above the electron detachment threshold: Intracluster electron transfer <i>versus</i> nucleobase-centred excitations. Journal of Chemical Physics, 2018, 148, 084304.	3.0	22
21	Observation of Near-Threshold Resonances in the Flavin Chromophore Anions Alloxazine and Lumichrome. Journal of Physical Chemistry Letters, 2018, 9, 6124-6130.	4.6	23
22	Protomer-Dependent Electronic Spectroscopy and Photochemistry of the Model Flavin Chromophore Alloxazine. Molecules, 2018, 23, 2036.	3.8	24
23	Photoexcitation of Adenosine 5′-Triphosphate Anions in Vacuo: Probing the Influence of Charge State on the UV Photophysics of Adenine. Journal of Physical Chemistry B, 2017, 121, 5553-5561.	2.6	26
24	Experiment and theory confirm that UV laser photodissociation spectroscopy can distinguish protomers formed via electrospray. Physical Chemistry Chemical Physics, 2017, 19, 17434-17440.	2.8	40
25	Photodissociation dynamics of the iodide-uracil (lâ^'U) complex. Journal of Chemical Physics, 2016, 145, 044319.	3.0	27
26	Locating the Proton in Nicotinamide Protomers via Low-Resolution UV Action Spectroscopy of Electrosprayed Solutions. Journal of Physical Chemistry A, 2016, 120, 9209-9216.	2.5	30
27	UV laser photoactivation of hexachloroplatinate bound to individual nucleobases in vacuo as molecular level probes of a model photopharmaceutical. Physical Chemistry Chemical Physics, 2016, 18, 15143-15152.	2.8	26
28	Photoelectron spectroscopy of hexachloroplatinate-nucleobase complexes: Nucleobase excited state decay observed via delayed electron emission. Journal of Chemical Physics, 2015, 143, 184307.	3.0	8
29	Communication: Evidence for dipole-bound excited states in gas-phase lâ ⁻ ² â< MI (M = Na, K, Cs) anionic salt microclusters. Journal of Chemical Physics, 2015, 143, 101103.	3.0	7
30	UV laser spectroscopy of mass-selected ionic liquid building blocks in the gas-phase. Chemical Physics Letters, 2015, 634, 216-220.	2.6	7
31	Electron Detachment as a Probe of Intrinsic Nucleobase Dynamics in Dianion-Nucleobase Clusters: Photoelectron Spectroscopy of the Platinum II Cyanide Dianion Bound to Uracil, Thymine, Cytosine, and Adenine. Journal of Physical Chemistry B, 2015, 119, 11626-11631.	2.6	9
32	Communication: Photoactivation of nucleobase bound platinumIlmetal complexes: Probing the influence of the nucleobase. Journal of Chemical Physics, 2014, 141, 241101.	3.0	6
33	Solvent evaporation versus proton transfer in nucleobase–Pt(CN)4,62â⁻' dianion clusters: a collisional excitation and electronic laser photodissociation spectroscopy study. Physical Chemistry Chemical Physics, 2014, 16, 15490.	2.8	23
34	Mapping the UV Photophysics of Platinum Metal Complexes Bound to Nucleobases: Laser Spectroscopy of Isolated Uracil·Pt(CN)42– and Uracil·Pt(CN)62– Complexes. Journal of Physical Chemistry Letters, 2014, 5, 3281-3285.	4.6	15
35	Performance of M06, M06-2X, and M06-HF Density Functionals for Conformationally Flexible Anionic Clusters: M06 Functionals Perform Better than B3LYP for a Model System with Dispersion and Ionic Hydrogen-Bonding Interactions. Journal of Physical Chemistry A, 2013, 117, 12590-12600.	2.5	549
36	Complexation of carboxylate anions with the arginine gas-phase amino acid: Effects of chain length on the geometry of extended ion binding. Chemical Physics Letters, 2013, 577, 1-5.	2.6	10

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37	Complexation of anions to gas-phase amino acids: Conformation is critical in determining if the global minimum is canonical or zwitterionic. Chemical Physics Letters, 2013, 588, 43-46.	2.6	9
38	Collision-Induced Dissociation of Halide Ion–Arginine Complexes: Evidence for Anion-Induced Zwitterion Formation in Gas-Phase Arginine. Journal of Physical Chemistry A, 2012, 116, 801-809.	2.5	18
39	Evidence for hydrogen bond network formation in microsolvated clusters of Pt(CN)42â^': collision induced dissociation studies of Pt(CN)42â^'·(H2O)nn = 1 â€"4, and Pt(CN)42â^'·(MeCN)mm = 1, 2 cluster ions. Physical Chemistry Chemical Physics, 2011, 13, 18379.	2.8	4
40	Noncovalent Interactions in the Gas-Phase Conformers of Anionic Iduronate (methyl) Tj ETQq0 0 0 rgBT /Overlock		532 Td (2-O- 4
40	Prototypical Anionic Monosaccharide Studied Using Computational Methods. Journal of Physical Chemistry A, 2010, 114, 11153-11160.	2.0	4
41	Structural characterization of negatively charged glycosaminoglycans using high-energy (50–150keV) collisional activation. International Journal of Mass Spectrometry, 2009, 285, 70-77.	1.5	9
	Probing the gas-phase stability of the <mml:math <="" altimg="si1.gif" display="inline" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td>سامسودان د</td></mml:math>		سامسودان د
42	overflow="scroll"> <mml:mrow><mml:msub><mml:mrow><mml:mtext>Re</mml:mtext></mml:mrow><mml:mrow (X = Cl, Br) and </mml:mrow </mml:msub></mml:mrow>		

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55	Stabilization of Excess Charge in Isolated Adenosine 5â€-Triphosphate and Adenosine 5â€-Diphosphate Multiply and Singly Charged Anions. Journal of Physical Chemistry A, 2005, 109, 9775-9785.	2.5	26
56	On the Stability of IrCl63- and Other Triply Charged Anions:  Solvent Stabilization versus Ionic Fragmentation and Electron Detachment for the IrCl63-·(H2O)n n = 0â~10 Microsolvated Clusters. Journal of Physical Chemistry A, 2005, 109, 5836-5845.	2.5	19
57	lonic fragmentation versus electron detachment in isolated transition metal complex dianions. Chemical Physics Letters, 2004, 399, 465-470.	2.6	32
58	Exploring the microscopic solvation of doubly charged anions: symmetric or asymmetric solvation in the CO2–(CH2)4–CO22â^'·(H2O)2 dicarboxylate dianion cluster?. Chemical Physics Letters, 2003, 370, 52-61.	2.6	19
59	The effect of conformation on the ionization energetics ofn-butylbenzene. II. A zero electron kinetic energy photoelectron spectroscopy study with partial rotational resolution. Journal of Chemical Physics, 2003, 119, 12914-12920.	3.0	20
60	The effect of conformation on the ionization energetics of n-butylbenzene. I. A threshold ionization study. Journal of Chemical Physics, 2003, 119, 12908-12913.	3.0	18
61	A PW91 Density Functional Study of Conformational Choice in 2-Phenylethanol,n-Butylbenzene, and Their Cations:Â Problems for Density Functional Theory?. Journal of Physical Chemistry A, 2002, 106, 4623-4631.	2.5	41
62	The PFI-ZEKE photoelectron spectrum of m-fluorophenol and its aqueous complexes: Comparing intermolecular vibrations in rotational isomers. Physical Chemistry Chemical Physics, 2002, 4, 2534-2538.	2.8	30
63	Intermolecular vibration and internal rotation of a methyl group in acetanilide·Ar: a ZEKE photoelectron spectroscopy study. Physical Chemistry Chemical Physics, 2002, 4, 3578-3582. Hydration of a cationic amide group: a ZEKE spectroscopic study of trans-formanilide–H2OElectronic	2.8	8
64	súpplementary information (EŠI) available: Ab initio CASSCF/cc-pVDZ geometry parameters of t-FAâ€"H2ONH in the S0, S1 and D0 states (Table S1), CASSCF/cc-pVDZ charges of t-FAâ€"H2ONH in the S0, S1 and D0 states (Table S2), CASSCF/cc-pVDZ harmonic frequencies for the S0, S1 and D0 of t-FAâ€"H2ONH up to 1000 cmâ€"1 (Table S3). See http://www.rsc.org/suppdata/cp/b2/b200125j/. Physical Chemistry Chemical	2.8	13
65	Physics, 2002, 4, 2897-2903. ZEKE Photoelectron Spectroscopy of the cis and trans Isomers of Formanilide. Angewandte Chemie - International Edition, 2002, 41, 166-168.	13.8	45
66	A REMPI and ZEKE spectroscopic study of the trans-formanilide·Ar van der Waals cluster. Chemical Physics Letters, 2002, 351, 121-127.	2.6	8
67	A ZEKE photoelectron spectroscopy and ab initio study of the cis- and trans-isomers of formanilide: Characterizing the cationic amide bond? Physical Chemistry Chemical Physics, 2001, 3, 5450-5458.	2.8	35
68	A density functional theory study of the anthracene anion. Chemical Physics Letters, 2000, 330, 180-187.	2.6	30
69	Is the phenolÂ-Ar complex van der Waals or hydrogen-bonded? A REMPI and ZEKE spectroscopic study. Journal of Electron Spectroscopy and Related Phenomena, 2000, 108, 1-11.	1.7	50
70	Rotational band contour analysis in REMPI and ZEKE spectroscopy: elucidating the structures of phenolâ·X (X=N2, CO and Ar) complexes. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 231-239.	1.7	54
71	Hydrogen-Bonding and van der Waals Complexes Studied by ZEKE and REMPI Spectroscopy. Chemical Reviews, 2000, 100, 3999-4022.	47.7	198
72	Spectroscopic observation of vibrational Feshbach resonances in near-threshold photoexcitation of X-·CH3NO2 (X-=I- and Br-). Faraday Discussions, 2000, 115, 395-406.	3.2	43

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73	Observation of Rotational Isomers I:Â A ZEKE and Hole-Burning Spectroscopy Study of 3-Methoxyphenol. Journal of Physical Chemistry A, 2000, 104, 11864-11869.	2.5	36
74	Observation of Rotational Isomers II: A ZEKE and Hole-Burning Spectroscopy Study of Hydrogen-Bonded 3-Methoxyphenol·Water Clusters. Journal of Physical Chemistry A, 2000, 104, 11870-11876.	2.5	12
75	Mass analyzed threshold ionization of phenolâ«CO: Intermolecular binding energies of a hydrogen-bonded complex. Journal of Chemical Physics, 1999, 111, 1947-1954.	3.0	67
76	Observation of Hydrogen-Bonded Rotational Isomers of the Resorcinol·Water Complex. Journal of Physical Chemistry A, 1999, 103, 7186-7191.	2.5	17
77	ZEKE and Hole-Burning Spectroscopy of the Rotational Isomers of Resorcinol·CO. Journal of Physical Chemistry A, 1999, 103, 9687-9692.	2.5	11
78	Photochemistry of Halide Ionâ^'Molecule Clusters:  Dipole-Bound Excited States and the Case for Asymmetric Solvation. Accounts of Chemical Research, 1998, 31, 527-534.	15.6	74
79	Photoinitiation of Gas-Phase SN2 Reactions through the Evansâ°'Polanyi Excited State Surface. Journal of the American Chemical Society, 1997, 119, 5067-5068.	13.7	21
80	On the vibrational fine structure in the nearâ€threshold photofragmentation spectrum of the lâ^â‹CH3I complex: Spectroscopic observation of nonadiabatic effects in electronâ€molecule scattering. Journal of Chemical Physics, 1996, 105, 10416-10423.	3.0	32
81	Precursor of the laqâ^' chargeâ€transferâ€toâ€solvent (CTTS) band in lâ^'â‹(H2O)n clusters. Journal of Chemical Physics, 1996, 105, 7231-7234.	3.0	162
82	Photoinitiation of the anionic condensation reaction in 2-chloroacrylonitrile via the charge-transfer bands of the Clâ [^] A·(2-chloroacrylonitrile)1,2 clusters. Chemical Physics Letters, 1995, 244, 127-132.	2.6	3
83	Observation of the dipoleâ€bound excited state of the Iâ^â‹acetone ionâ€molecule complex. Journal of Chemical Physics, 1995, 102, 6335-6338.	3.0	42
84	Dipoleâ€bound excited states of the Iâ^3â‹CH3CN and Iâ^3â‹(CH3CN)2 ion–molecule complexes: Evidence for asymmetric solvation. Journal of Chemical Physics, 1995, 103, 2006-2015.	3.0	71