Evan Bieske

List of Publications by Year
in descending order

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134	3,547	126907	175258
papers	citations	33	52
		h-index	g-index

135	135	135	2475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Resolution Spectroscopy of Cluster Ions. Chemical Reviews, 2000, 100, 3963-3998.	47.7	468
2	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. Review of Scientific Instruments, 2012, 83, 103705.	1.3	228
3	Size Effects in Cluster Infrared Spectra: the .nu.1 Band of Arn-HCO+ (n = 1-13). The Journal of Physical Chemistry, 1995, 99, 17118-17129.	2.9	114
4	The infrared spectrum of the H2â€“HCO+ complex. Journal of Chemical Physics, 1995, 102, 5152-5164.	3.0	71
5	Infrared Investigations of Negatively Charged Complexes and Clusters. International Reviews in Physical Chemistry, 2003, 22, 129-151.	2.3	69
6	Midâ€infrared spectra of Heâ€“HN+2and He2â€“HN+2. Journal of Chemical Physics, 1996, 104, 3876-3885.	3.0	65
7	Midâ€infrared spectra of the protonâ€bound complexes Nenâ€“HCO+ (n=1,2). Journal of Chemical Physics, 1996, 105, 1770-1777.	3.0	60
8	An ion mobility mass spectrometer for investigating photoisomerization and photodissociation of molecular ions. Review of Scientific Instruments, 2014, 85, 123109.	1.3	58
9	Electronic spectroscopy of size-selected ionic complexes. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1.	1.7	56
10	Microsolvation of the ammonium ion in argon: infrared spectra of NH4+î—¸Arn complexes (n = 1â€“7). International Journal of Mass Spectrometry and Ion Processes, 1997, 167-168, 637-647.	1.8	54
11	Dissociation energy of the Arî—¸HN+2 complex. Chemical Physics Letters, 1997, 265, 303-307.	2.6	54
12	The 35Clâ^'â€“H2 and 35Clâ^'â€“D2 anion complexes: Infrared spectra and radial intermolecular potentials. Journal of Chemical Physics, 2001, 115, 824-832.	3.0	54
13	The infrared spectrum of Heâ€“HCO+. Journal of Chemical Physics, 1995, 103, 1297-1302.	3.0	53
14	Changing the shape of molecular ions: photoisomerization action spectroscopy in the gas phase. Physical Chemistry Chemical Physics, 2013, 15, 9540.	2.8	52
15	Clâ^'â€“C6H6, Brâ^'â€“C6H6, and Iâ^'â€“C6H6 anion complexes: Infrared spectra and ab initio calculations. Journal of Chemical Physics, 2003, 119, 9559-9567.	3.0	49
16	The van der Waals vibrations of anilineâ€“(argon)2 in the S1 electronic state. Journal of Chemical Physics, 1991, 94, 7019-7028.	3.0	47
17	Infrared predissociation spectra of Nenâ€“HN2+ clusters (n=1â€“5). Journal of Chemical Physics, 1998, 108, 8964-8975.	3.0	47
18	Ab initio potential energy and dipole moment surfaces, infrared spectra, and vibrational predissociation dynamics of the 35Clâ^'â‹¯H2/D2 complexes. Journal of Chemical Physics, 2003, 119, 12931-12945.	3.0	46

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19	Photoisomerization action spectroscopy: flicking the protonated merocyanineâ€“spiropyran switch in the gas phase. Physical Chemistry Chemical Physics, 2015, 17, 25676-25688.	2.8	46
20	Photoswitching an Isolated Donorâ€“Acceptor Stenhouse Adduct. Journal of Physical Chemistry Letters, 2018, 9, 665-671.	4.6	46
21	Spectroscopic studies of anion complexes and clusters: A microscopic approach to understanding anion solvation. Chemical Society Reviews, 2003, 32, 231.	38.1	44
22	Apparatus for the study of electronic spectra of collisionally cooled cations: para-dichlorobenzene. Journal of Molecular Structure, 2006, 795, 93-97.	3.6	43
23	Infrared spectra of Clâ¯â€“(C2H2)nâ€Š(1â©½nâ©½9) anion clusters: Spectroscopic evidence for solvent shell closure. Journal of Chemical Physics, 1999, 110, 9443-9449.	3.0	39
24	Infrared spectra of the Li+â€“(H2)n (n=1â€“3) cation complexes. Journal of Chemical Physics, 2007, 126, 204309.	3.0	39
25	The Bâ†X electronic spectrum of N2+â€“He. Journal of Chemical Physics, 1990, 93, 4477-4478.	3.0	36
26	Rotationally resolved infrared spectrum of the Clâ¯â€“H2 anion complex. Journal of Chemical Physics, 2000, 113, 10154-10157.	3.0	36
27	Rotationally resolved infrared spectrum of the Brâ¯â¯D2 anion complex. Journal of Chemical Physics, 2001, 115, 6394-6400.	3.0	36
28	Attaching molecular hydrogen to metal cations: perspectives from gas-phase infrared spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 14954.	2.8	36
29	Mass selected resonance enhanced multiphoton ionization spectroscopy of anilineâ€“Arn (n=3,4,5,â€‰...) van der Waals complexes. Journal of Chemical Physics, 1991, 94, 7029-7037.	3.0	35
30	The Bâ†X electronic spectrum of N+2â€“Ne. Journal of Chemical Physics, 1991, 94, 4749-4755.	3.0	35
31	Brâ¯-H2 and Iâ¯-H2 anion complexes: Infrared spectra and radial intermolecular potential energy curves. Journal of Chemical Physics, 2002, 117, 3256-3262.	3.0	35
32	Retinal shows its true colours: photoisomerization action spectra of mobility-selected isomers of the retinal protonated Schiff base. Physical Chemistry Chemical Physics, 2015, 17, 22623-22631.	2.8	35
33	A 3.PI.u .rarw. X 3.SIGMA.g- Electronic Spectrum of N3+. The Journal of Physical Chemistry, 1994, 98, 8896-8902.	2.9	34
34	Rotationally resolved infrared spectrum of the Li+â€“D2 cation complex. Journal of Chemical Physics, 2006, 125, 044310.	3.0	32
35	Electronic Spectra of Gas-Phase Polycyclic Aromatic Nitrogen Heterocycle Cations: Isoquinoline⁺ and Quinoline⁺. Journal of Physical Chemistry A, 2012, 116, 4323-4329.	2.5	32
36	Electron Injection and Energy-Transfer Properties of Spiropyranâ€“Cyclodextrin Complexes Coated onto Metal Oxide Nanoparticles: Toward Photochromic Light Harvesting. Journal of Physical Chemistry C, 2015, 119, 14076-14084.	3.1	32

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37	Protomer-Specific Photochemistry Investigated Using Ion Mobility Mass Spectrometry. Journal of Physical Chemistry A, 2017, 121, 6021-6027.	2.5	32
38	The Al+â€“H2 cation complex: Rotationally resolved infrared spectrum, potential energy surface, and rovibrational calculations. Journal of Chemical Physics, 2007, 127, 164310.	3.0	31
39	Differential-Mobility Spectrometry of 1-Deoxysphingosine Isomers: New Insights into the Gas Phase Structures of Ionized Lipids. Analytical Chemistry, 2018, 90, 5343-5351.	6.5	31
40	Photoisomerization action spectrum of retinal protonated Schiff base in the gas phase. Journal of Chemical Physics, 2014, 140, 164307.	3.0	29
41	Observation of the infrared spectrum of the Î½3 band of the argon-ammonium ionic complex. Chemical Physics Letters, 1996, 250, 266-272.	2.6	28
42	Calibration of a quadrupole ion trap for particle mass spectrometry. International Journal of Mass Spectrometry, 2007, 262, 241-246.	1.5	28
43	The Na+â€“H2 cation complex: Rotationally resolved infrared spectrum, potential energy surface, and rovibrational calculations. Journal of Chemical Physics, 2008, 129, 184306.	3.0	28
44	Infrared Spectra and Ab Initio Calculations for the F-â^'(CH4)n(n= 1â^'8) Anion Clusters. Journal of Physical Chemistry A, 2006, 110, 13736-13743.	2.5	25
45	Spectroscopic Study of the Benchmark Mn⁺â^'H₂ Complex. Journal of Physical Chemistry A, 2009, 113, 6044-6048.	2.5	24
46	Electronic absorptions of the benzylium cation. Journal of Chemical Physics, 2012, 137, 204304.	3.0	24
47	Ultraviolet photodissociation action spectroscopy of the N-pyridinium cation. Journal of Chemical Physics, 2015, 142, 014301.	3.0	24
48	Monitoring Isomerization of Molecules in Solution Using Ion Mobility Mass Spectrometry. Analytical Chemistry, 2016, 88, 11978-11981.	6.5	24
49	Double Molecular Photoswitch Driven by Light and Collisions. Physical Review Letters, 2018, 120, 223002.	7.8	24
50	Infrared and ab Initio Study of the Chlorideâ^'Ammonia Anion Complex. Journal of Physical Chemistry A, 2000, 104, 2562-2566.	2.5	23
51	Infrared Spectroscopy of the Ag⁺â^'H₂ Complex: Exploring the Connection Between Vibrational Band-Shifts and Binding Energies. Journal of Physical Chemistry Letters, 2011, 2, 719-724.	4.6	23
52	Photoisomerization of Protonated Azobenzenes in the Gas Phase. Journal of Physical Chemistry A, 2017, 121, 6413-6419.	2.5	23
53	Reversible Photoisomerization of the Isolated Green Fluorescent Protein Chromophore. Journal of Physical Chemistry Letters, 2018, 9, 2647-2651.	4.6	23
54	Ion mobility action spectroscopy of flavin dianions reveals deprotomer-dependent photochemistry. Physical Chemistry Chemical Physics, 2018, 20, 19672-19681.	2.8	23

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55	Structural and energetic properties of the Brâ˜â€“C2H2 anion complex from rotationally resolved mid-infrared spectra and ab initio calculations. Journal of Chemical Physics, 2000, 113, 1075-1080.	3.0	21
56	Attachment of Molecular Hydrogen to an Isolated Boron Cation: An Infrared and ab initio Study. Journal of the American Chemical Society, 2008, 130, 12986-12991.	13.7	21
57	Photoacoustic detection of gases using microcantilevers. Journal of Applied Physics, 2009, 106, .	2.5	21
58	Ion Mobility Unlocks the Photofragmentation Mechanism of Retinal Protonated Schiff Base. Journal of Physical Chemistry Letters, 2014, 5, 3195-3199.	4.6	21
59	Isomerisation of an intramolecular hydrogen-bonded photoswitch: protonated azobis(2-imidazole). Physical Chemistry Chemical Physics, 2017, 19, 12776-12783.	2.8	21
60	Photoisomerization Action Spectroscopy of the Carbocyanine Dye DTC⁺ in the Gas Phase. Journal of Physical Chemistry A, 2013, 117, 13319-13325.	2.5	20
61	Photodissociation spectroscopy of aromaticâ€“rare gas cluster ions: Low frequency vibrations in pâ€difluorobenzene+â‹…argon. Journal of Chemical Physics, 1990, 92, 4620-4621.	3.0	19
62	Structures of F - -(CH4)n and Cl - -(CH4)n (n = 1,2) Anion Clusters Elucidated through Ab Initio Calculations and Infrared Spectra. Australian Journal of Chemistry, 2004, 57, 1157.	0.9	18
63	Infrared Spectra of Mass-Selected Mg⁺â˜H₂ and Mg⁺â˜D₂ Complexes. Journal of Physical Chemistry A, 2009, 113, 199-204.	2.5	18
64	Photoinitiated Intramolecular Proton Transfer in Deprotonated para-Coumaric Acid. Journal of Physical Chemistry A, 2019, 123, 4419-4430.	2.5	18
65	Infrared Spectra and ab Initio Calculations for the Cl-â˜(CH4)n(n= 1â˜10) Anion Clusters. Journal of Physical Chemistry A, 2005, 109, 8481-8486.	2.5	16
66	The Cr+â€“D2 cation complex: Accurate experimental dissociation energy, intermolecular bond length, and vibrational parameters. Journal of Chemical Physics, 2009, 131, 164303.	3.0	16
67	Infrared spectra and density functional theory calculations for Mn+â€“(CH4)n (n=1â€“6) clusters. International Journal of Mass Spectrometry, 2010, 297, 46-54.	1.5	16
68	Effect of multiplicative noise on least-squares parameter estimation with applications to the atomic force microscope. Review of Scientific Instruments, 2012, 83, 055106.	1.3	16
69	Suppressing FÃ¶rster Resonance Energy Transfer between Organic Dyes on a Cosensitized Metal Oxide Surface. Journal of Physical Chemistry C, 2014, 118, 19646-19654.	3.1	16
70	Structural characterization and gas-phase studies of the [Ag₁₀H₈(L)₆]²⁺ nanocluster dication. Nanoscale, 2019, 11, 22880-22889.	5.6	16
71	Isomeric interconversion in the linear Clâ˜-HD anion complex. Journal of Chemical Physics, 2004, 121, 2085-2093.	3.0	15
72	Structure and properties of the Zn+â€“D2 complex. Journal of Chemical Physics, 2009, 131, 224304.	3.0	15

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73	Photo- and Collision-Induced Isomerization of a Charge-Tagged Norbornadieneâ€“Quadricyclane System. Journal of Physical Chemistry Letters, 2020, 11, 6045-6050.	4.6	15
74	Infrared spectrum of the I[sup â^']â€“D[sub 2] anion complex. Journal of Chemical Physics, 2004, 121, 12276.	3.0	14
75	Potential energy surface and rovibrational calculations for the ${m Mg}^+$ Mg +â€“${m H}_2$H2 and ${m Mg}^+$ Mg +â€“${m D}_2$D2 complexes. Journal of Chemical Physics, 2011, 134, 044310.	3.0	14
76	Blue to near-IR energy transfer cascade within a dye-doped polymer matrix, mediated by a photochromic molecular switch. Physical Chemistry Chemical Physics, 2016, 18, 5095-5098.	2.8	14
77	FromEtoZand back again: reversible photoisomerisation of an isolated charge-tagged azobenzene. Physical Chemistry Chemical Physics, 2018, 20, 509-513.	2.8	14
78	Reversible Photoswitching of Isolated Ionic Hemiindigos with Visible Light. ChemPhysChem, 2020, 21, 680-685.	2.1	14
79	Infrared Spectra of Size Selected Cl-â^'(D2)nand F-â^'(D2)nAnion Clusters. Journal of Physical Chemistry A, 2002, 106, 906-910.	2.5	13
80	Infrared spectra of Clâ^'â€“(C6H6)m= 1, 2. Chemical Physics Letters, 2006, 428, 18-22.	2.6	13
81	Photophysics and aggregation effects of a triphenylamine-based dye sensitizer on metal-oxide nanoparticles suspended in an ion trap. Physical Chemistry Chemical Physics, 2013, 15, 20326.	2.8	13
82	Does the triphenylamine-based D35 dye sensitizer form aggregates on metal-oxide surfaces?. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 302, 35-41.	3.9	13
83	Photodetachment and photoreactions of substituted naphthalene anions in a tandem ion mobility spectrometer. Faraday Discussions, 2019, 217, 34-46.	3.2	13
84	Electronic spectra of positively charged carbon clustersâ€”C2n+ (n = 6â€“14). Journal of Chemical Physics, 2021, 155, 214302.	3.0	13
85	Observation of nondegenerate cavity modes for a distorted polystyrene microsphere. Optics Letters, 2006, 31, 2211.	3.3	12
86	Photo and Collision Induced Isomerization of a Cyclic Retinal Derivative: An Ion Mobility Study. Journal of the American Society for Mass Spectrometry, 2016, 27, 1483-1490.	2.8	12
87	Ultrafast photoisomerisation of an isolated retinoid. Physical Chemistry Chemical Physics, 2019, 21, 10567-10579.	2.8	12
88	Ab initiopotential energy surface, infrared spectra, and dynamics of the ion-molecule complexes between Brâ^' and H2, D2, and HD. Journal of Chemical Physics, 2006, 125, 114313.	3.0	11
89	Distortion in the thermal noise spectrum and quality factor of nanomechanical devices due to finite frequency resolution with applications to the atomic force microscope. Review of Scientific Instruments, 2011, 82, 095104.	1.3	11
90	Photochrome-doped organic films for photonic keypad locks and multi-state fluorescence. Physical Chemistry Chemical Physics, 2017, 19, 19984-19991.	2.8	11

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91	An ion mobility mass spectrometer coupled with a cryogenic ion trap for recording electronic spectra of charged, isomer-selected clusters. Review of Scientific Instruments, 2022, 93, 043201.	1.3	11
92	Gas-phase electronic spectroscopy of the indene cation (C9H8+). Journal of Chemical Physics, 2013, 138, 224307.	3.0	10
93	Seleniranium Ions Undergo Ï€-Ligand Exchange via an Associative Mechanism in the Gas Phase. Journal of Organic Chemistry, 2017, 82, 6289-6297.	3.2	10
94	Interactions between the Chloride Anion and Aromatic Molecules:Â Infrared Spectra of the Cl-â^'C6H5CH3, Cl-â^'C6H5NH2and Cl-â^'C6H5OH Complexes. Journal of Physical Chemistry A, 2007, 111, 7322-7328.	2.5	9
95	Infrared Spectra of Mass-Selected Brâ^'â^'(NH3)n and Iâ^'â^'NH3 Clusters. Journal of Physical Chemistry A, 2010, 114, 4762-4769.	2.5	8
96	Rotationally resolved infrared spectrum of the Na+-D2 complex: An experimental and theoretical study. Journal of Chemical Physics, 2011, 134, 214302.	3.0	8
97	Interaction of the Beryllium Cation with Molecular Hydrogen and Deuterium. Journal of Physical Chemistry A, 2014, 118, 6711-6720.	2.5	8
98	Electronic spectrum of the propargyl cationâ€‰(H2C3H+)â€‰tagged with Ne and N2. Journal of Chemical Physics, 2015, 143, 184306.	3.0	8
99	Infrared spectra of the Clâ€“â€“C2H4 and Brâ€“â€“C2H4 anion dimers. Physical Chemistry Chemical Physics, 2005, 7, 3419.	2.8	7
100	A sting in the tail of flexible molecules: spectroscopic and energetic challenges in the case of p-aminophenethylamine. Physical Chemistry Chemical Physics, 2012, 14, 9219.	2.8	7
101	Properties of the B+-H2and B+-D2complexes: A theoretical and spectroscopic study. Journal of Chemical Physics, 2012, 137, 124312.	3.0	7
102	Ab Initio Characterization of the Electrostatic Complexes Formed by H₂ Molecule and Cr⁺, Mn⁺, Cu⁺, and Zn⁺ Cations. Journal of Physical Chemistry A, 2016, 120, 5006-5015.	2.5	7
103	Electronic spectrum of the protonated diacetylene cation (H2C4H+). Journal of Chemical Physics, 2017, 147, 084302.	3.0	7
104	Linkage Photoisomerization of an Isolated Ruthenium Sulfoxide Complex: Sequential versus Concerted Rearrangement. Inorganic Chemistry, 2018, 57, 5701-5706.	4.0	7
105	Photophysics of Isolated Rose Bengal Anions. Journal of Physical Chemistry A, 2020, 124, 8429-8438.	2.5	7
106	N3+: Full-dimensional ground state potential energy surface, vibrational energy levels, and dynamics. Journal of Chemical Physics, 2020, 153, 044302.	3.0	7
107	Modulating electron injection from an organic dye to a titania nanoparticle with a photochromic energy transfer acceptor. Journal of Materials Chemistry C, 2016, 4, 6215-6219.	5.5	6
108	Hydrogen-adduction to open-shell graphene fragments: spectroscopy, thermochemistry and astrochemistry. Chemical Science, 2017, 8, 1186-1194.	7.4	6

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109	Electronic Spectrum of the Tropylium Cation in the Gas Phase. Journal of Physical Chemistry Letters, 2020, 11, 8867-8872.	4.6	6
110	Electronic Spectroscopy of the 1,3-Cyclopentadiene Cation (C5H6+). Journal of Physical Chemistry A, 2013, 117, 11276-11281.	2.5	5
111	Online measurement of photoisomerisation efficiency in solution using ion mobility mass spectrometry. Analyst, The, 2017, 142, 2100-2103.	3.5	5
112	Unveiling New Isomers and Rearrangement Routes on the C₇H₈⁺ Potential Energy Surface. Journal of Physical Chemistry A, 2019, 123, 823-830.	2.5	5
113	Action spectroscopy of deprotomer-selected hydroxycinnamate anions. European Physical Journal D, 2021, 75, 1.	1.3	5
114	Photoisomerization of Î²-Ionone Protonated Schiff Base in the Gas Phase. Journal of Physical Chemistry A, 2016, 120, 6557-6562.	2.5	4
115	Electronic spectrum and photodissociation chemistry of the linear methyl propargyl cation H2C4H3+. Journal of Chemical Physics, 2017, 146, 044307.	3.0	4
116	Nonadiabatic Dynamics between Valence, Nonvalence, and Continuum Electronic States in a Heteropolycyclic Aromatic Hydrocarbon. Journal of Physical Chemistry Letters, 2021, 12, 11811-11816.	4.6	4
117	A Strong cisâ€Effect in an Imidazoleâ€Imidazoliumâ€Substituted Alkene. Angewandte Chemie - International Edition, 2017, 56, 8473-8480.	13.8	3
118	Electronic Spectrum and Photodissociation Chemistry of the 1-Butyn-3-yl Cation, H₃CCHCCH⁺. Journal of Physical Chemistry A, 2020, 124, 2366-2371.	2.5	3
119	Near-infrared reversible photoswitching of an isolated azobenzene-stilbene dye. Chemical Physics Letters, 2020, 741, 137065.	2.6	3
120	Action spectroscopy of isomer-selected luciferin anions. European Physical Journal D, 2021, 75, 1.	1.3	3
121	Photofragmentation dynamics of the (N2O)2+ and (N2O)3+ clusters: fragment N2O+ A â†•X spectra. Chemical Physics, 1998, 239, 369-378.	1.9	2
122	Morphology-Dependent Resonance Emission from Individual Micron-Sized Particles. Springer Series on Fluorescence, 2007, , 415-429.	0.8	2
123	Mixing Laser Spectroscopy and Mass Spectrometry-Infrared Spectra of Metal Cationâ€“Hydrogen Complexes. European Journal of Mass Spectrometry, 2010, 16, 415-420.	1.0	2
124	Molecular collision dynamics. Physical Chemistry Chemical Physics, 2011, 13, 8073.	2.8	2
125	Laboratory Spectroscopy of PAHs. Proceedings of the International Astronomical Union, 2013, 9, 247-257.	0.0	2
126	Infrared Spectra and ab initio Calculations for Fluoride-acetylene Clusters: F - -(HCCH)n, n=3 - 6. Australian Journal of Chemistry, 2011, 64, 633.	0.9	2

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127	Photoisomerization of Linear and Stacked Isomers of a Charged Styryl Dye: A Tandem Ion Mobility Study. Journal of the American Society for Mass Spectrometry, 2021, 32, 2842-2851.	2.8	2
128	A Strong cis â€Effect in an Imidazoleâ€Imidazoliumâ€Substituted Alkene. Angewandte Chemie, 2017, 129, 8593-8600.	2.0	1
129	Electronic Spectra of Diacetylene Cations (HC₄H⁺) Tagged with Ar and N₂. Journal of Physical Chemistry A, 2019, 123, 7228-7236.	2.5	1
130	Electronic Spectra of the Triacetylene Cation (HC6H+) and Protonated Triacetylene (HC6H2+) Tagged with Ar. Australian Journal of Chemistry, 2019, 72, 260.	0.9	1
131	Actinic Wavelength Action Spectroscopy of the IO^{â€“} Reaction Intermediate. Journal of Physical Chemistry Letters, 2021, 12, 11939-11944.	4.6	1
132	Electronic spectrum of 9-methylanthracenium radical cation. Journal of Chemical Physics, 2016, 144, 154303.	3.0	0
133	Photodissociation dynamics of N3+. Journal of Chemical Physics, 2022, 156, 124307.	3.0	0
134	Photo-induced 6Ï€-electrocyclisation and cycloreversion of isolated dithienylethene anions. Physical Chemistry Chemical Physics, 0, , .	2.8	0