## Stephen L Coy

List of Publications by Year in descending order

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STEDHEN L COV

#	Article	IF	CITATIONS
1	Nonlinear rotational spectroscopy reveals many-body interactions in water molecules. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
2	Long-range model of vibrational autoionization in core-nonpenetrating Rydberg states of NO. Journal of Chemical Physics, 2021, 155, 244303.	1.2	1
3	Quantitation of Urinary Acylcarnitines by DMS-MS/MS Uncovers the Effects of Total Body Irradiation in Cancer Patients. Journal of the American Society for Mass Spectrometry, 2020, 31, 498-507.	1.2	3
4	Quantitation of Cyclosporin A in Cell Culture Media by Differential Mobility Mass Spectrometry (DMS-MS/MS). Methods in Molecular Biology, 2020, 2084, 145-157.	0.4	1
5	The Use of DMS-MS for the Quantitative Analysis of Acylcarnitines. Methods in Molecular Biology, 2020, 2084, 95-101.	0.4	1
6	Analysis of vibrational autoionization of CaF Rydberg states. Journal of Chemical Physics, 2019, 150, 154305.	1.2	4
7	Differential mobility spectrometry (DMS) reveals the elevation of urinary acetylcarnitine in nonâ€human primates (NHPs) exposed to radiation. Journal of Mass Spectrometry, 2018, 53, 548-559.	0.7	12
8	Differential Mobility Spectrometry-Mass Spectrometry (DMS-MS) in Radiation Biodosimetry: Rapid and High-Throughput Quantitation of Multiple Radiation Biomarkers in Nonhuman Primate Urine. Journal of the American Society for Mass Spectrometry, 2018, 29, 1650-1664.	1.2	23
9	Direct single-shot observation of millimeter-wave superradiance in Rydberg-Rydberg transitions. Physical Review A, 2017, 95, .	1.0	19
10	Electric potential invariants and ions-in-molecules effective potentials for molecular Rydberg states. Journal of Chemical Physics, 2016, 145, 234301.	1.2	3
11	Rapid and High-Throughput Detection and Quantitation of Radiation Biomarkers in Human and Nonhuman Primates by Differential Mobility Spectrometry-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 1626-1636.	1.2	18
12	Direct detection of Rydberg–Rydberg millimeter-wave transitions in a buffer gas cooled molecular beam. Chemical Physics Letters, 2015, 640, 124-136.	1.2	20
13	Understanding Gas Phase Modifier Interactions in Rapid Analysis by Differential Mobility-Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1098-1113.	1.2	35
14	Extending the Dynamic Range of the Ion Trap by Differential Mobility Filtration. Journal of the American Society for Mass Spectrometry, 2013, 24, 1428-1436.	1.2	19
15	Differential mobility spectrometry with nanospray ion source as a compact detector for small organics and inorganics. International Journal for Ion Mobility Spectrometry, 2013, 16, 217-227.	1.4	13
16	Chirped-pulse millimeter-wave spectroscopy: Spectrum, dynamics, and manipulation of Rydberg–Rydberg transitions. Journal of Chemical Physics, 2013, 138, 014301.	1.2	20
17	A differential mobility spectrometry/mass spectrometry platform for the rapid detection and quantitation of DNA adduct dGâ€ABP. Rapid Communications in Mass Spectrometry, 2013, 27, 1473-1480.	0.7	15
18	Development of rapid methodologies for the isolation and quantitation of drug metabolites by differential mobility spectrometry – mass spectrometry. International Journal for Ion Mobility Spectrometry, 2012, 15, 151-156.	1.4	21

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19	Rapid Separation and Characterization of Cocaine and Cocaine Cutting Agents by Differential Mobility Spectrometry–Mass Spectrometry. Journal of Forensic Sciences, 2012, 57, 750-756.	0.9	31
20	Chirped-Pulse Millimeter-Wave Spectroscopy of Rydberg-Rydberg Transitions. Physical Review Letters, 2011, 107, 143001.	2.9	22
21	A quantum defect model for the <i>s</i> , <i>p</i> , <i>d</i> , and <i>f</i> Rydberg series of CaF. Journal of Chemical Physics, 2011, 134, 114313.	1.2	27
22	Radiation metabolomics and its potential in biodosimetry. International Journal of Radiation Biology, 2011, 87, 802-823.	1.0	88
23	Control of Chemical Effects in the Separation Process of a Differential Mobility Mass Spectrometer System. European Journal of Mass Spectrometry, 2010, 16, 57-71.	0.5	73
24	Planar differential mobility spectrometer as a pre-filter for atmospheric pressure ionization mass spectrometry. International Journal of Mass Spectrometry, 2010, 298, 45-54.	0.7	147
25	Detection of radiation-exposure biomarkers by differential mobility prefiltered mass spectrometry (DMS–MS). International Journal of Mass Spectrometry, 2010, 291, 108-117.	0.7	52
26	Chemical Effects in the Separation Process of a Differential Mobility/Mass Spectrometer System. Analytical Chemistry, 2010, 82, 1867-1880.	3.2	153
27	Selection and generation of waveforms for differential mobility spectrometry. Review of Scientific Instruments, 2010, 81, 024101.	0.6	58
28	The Stark effect in Rydberg states of a highly polar diatomic molecule: CaF. Journal of Chemical Physics, 2009, 131, 064301.	1.2	7
29	Temperature effects in differential mobility spectrometry. International Journal of Mass Spectrometry, 2009, 279, 119-125.	0.7	58
30	Separation of long-range and short-range interactions in Rydberg states of diatomic molecules. Journal of Chemical Physics, 2008, 128, 194301.	1.2	16
31	Resonance between electronic and rotational motions in Rydberg states of CaF. Molecular Physics, 2007, 105, 1661-1673.	0.8	11
32	Fragmentation pathways and mechanisms of aromatic compounds in atmospheric pressure studied by GC–DMS and DMS–MS. International Journal of Mass Spectrometry, 2007, 263, 137-147.	0.7	28
33	Pressure Effects in Differential Mobility Spectrometry. Analytical Chemistry, 2006, 78, 7697-7706.	3.2	95
34	Broad shape resonance effects in CaF Rydberg states. Journal of Chemical Physics, 2006, 124, 194302.	1.2	4
35	Properties of nearly one-electron molecules. II. Application to the Rydberg spectrum of CaF. Journal of Chemical Physics, 2005, 123, 084319.	1.2	12
36	Properties of nearly one-electron molecules. I. An iterative Green function approach to calculating the reaction matrix. Journal of Chemical Physics, 2005, 123, 084318.	1.2	10

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37	Numerical Pattern Recognition Analysis of CO Atmospheric Simulation Experiments. Journal of Physical Chemistry A, 2000, 104, 249-257.	1.1	Ο
38	Numerical pattern recognition analysis of acetylene dispersed fluorescence spectra. Journal of Chemical Physics, 1998, 108, 7100-7113.	1.2	59
39	Identifying patterns in multicomponent signals by extended cross correlation. Journal of Chemical Physics, 1997, 107, 8357-8369.	1.2	18
40	Extended cross correlation: A technique for spectroscopic pattern recognition. Journal of Chemical Physics, 1997, 107, 8349-8356.	1.2	31
41	How robust are molecular properties? A stability criterion for eigenstates. Journal of Chemical Physics, 1995, 102, 337-345.	1.2	2
42	Microwave detected, microwaveâ€optical double resonance of NH3, NH2D, NHD2, and ND3. II. Predissociation dynamics of the à state. Journal of Chemical Physics, 1995, 102, 4783-4792.	1.2	41
43	Microwave detected, microwaveâ€optical double resonance of NH3, NH2D, NHD2, and ND3. I. Structure and force field of the à state. Journal of Chemical Physics, 1995, 102, 4772-4782.	1.2	38
44	The normal to local mode transition in AB2triatomic molecules: The susceptibility of eigenstates to symmetry breaking perturbations. Journal of Chemical Physics, 1994, 101, 869-875.	1.2	22
45	Pure Sequence Vibrational Spectra of Small Polyatomic Molecules. Progress of Theoretical Physics Supplement, 1994, 116, 143-166.	0.2	22
46	Stateâ€ŧoâ€state rotational energyâ€ŧransfer measurements in thev2=1 state of ammonia by infrared–infrared double resonance. Journal of Chemical Physics, 1992, 96, 8236-8250.	1.2	31
47	Modeling the rotational and vibrational structure of the i.r. optical spectrum of NH3. Spectrochimica Acta Part A: Molecular Spectroscopy, 1989, 45, 47-56.	0.1	68
48	Rotational structure of ammonia N–H stretch overtones: Five and six quanta bands. Journal of Chemical Physics, 1986, 84, 5239-5249.	1.2	58