

# Christopher J Rennick

## List of Publications by Year in descending order

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27  
papers

564  
citations

687363

13  
h-index

642732

23  
g-index

34  
all docs

34  
docs citations

34  
times ranked

520  
citing authors

#	ARTICLE	IF	CITATIONS
1	The increasing atmospheric burden of the greenhouse gas sulfur hexafluoride (SF <sub>6</sub> ). Atmospheric Chemistry and Physics, 2020, 20, 7271-7290.	4.9	63
2	UK greenhouse gas measurements at two new tall towers for aiding emissions verification. Atmospheric Measurement Techniques, 2019, 12, 4495-4518.	3.1	8
3	A magnetic guide to purify radical beams. Journal of Chemical Physics, 2018, 149, 174201.	3.0	10
4	HPCO—A Phosphorus-Containing Analogue of Isocyanic Acid. Angewandte Chemie - International Edition, 2017, 56, 3911-3915.	13.8	56
5	Using a direct simulation Monte Carlo approach to model collisions in a buffer gas cell. Journal of Chemical Physics, 2017, 146, 044302.	3.0	10
6	Zeeman deceleration beyond periodic phase space stability. New Journal of Physics, 2017, 19, 083016.	2.9	11
7	Resonant Charge Transfer of Hydrogen Rydberg Atoms Incident on a Cu(100) Projected Band-Gap Surface. Physical Review Letters, 2015, 115, 093201.	7.8	13
8	Ejection of Coulomb Crystals from a Linear Paul Ion Trap for Ion—Molecule Reaction Studies. Journal of Physical Chemistry A, 2015, 119, 12449-12456.	2.5	20
9	Coulomb crystal mass spectrometry in a digital ion trap. Physical Review A, 2015, 91, .	2.5	26
10	A chopper system for shortening the duration of pulsed supersonic beams seeded with NO or Br <sub>2</sub> down to 13 1/4s. Review of Scientific Instruments, 2015, 86, 053108.	1.3	6
11	Simulating rotationally inelastic collisions using a direct simulation Monte Carlo method. Molecular Physics, 2015, 113, 3972-3978.	1.7	12
12	Collisional trap losses of cold magnetically trapped Br atoms. Physical Review A, 2014, 90, .	2.5	4
13	Laser induced rovibrational cooling of the linear polyatomic ion $\text{C}_2\text{H}_2^+$ . Journal of Chemical Physics, 2014, 140, 164314.	3.0	8
14	Magnetic Trapping of Cold Bromine Atoms. Physical Review Letters, 2014, 112, 023002.	7.8	17
15	Dissociation and the Development of Spatial Correlation in a Molecular Ultracold Plasma. Physical Review Letters, 2014, 112, 075001.	7.8	24
16	Molecular ion—electron recombination in an expanding ultracold neutral plasma of NO <sup>+</sup> . Physical Chemistry Chemical Physics, 2011, 13, 18872.	2.8	19
17	Dissociative recombination and the decay of a molecular ultracold plasma. Journal of Physics: Conference Series, 2011, 300, 012005.	0.4	4
18	On the formation and decay of a molecular ultracold plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 184015.	1.5	23

#	ARTICLE	IF	CITATIONS
19	Very slow expansion of an ultracold plasma formed in a seeded supersonic molecular beam of NO. Physical Review A, 2009, 79, .	2.5	27
20	Evolution from a Molecular Rydberg Gas to an Ultracold Plasma in a Seeded Supersonic Expansion of NO. Physical Review Letters, 2008, 101, 205005.	7.8	85
21	Measurement and modeling of Ar <sup>+</sup> •H <sub>2</sub> •CH <sub>4</sub> arc jet discharge chemical vapor deposition reactors. I. Intercomparison of derived spatial variations of H atom, C <sub>2</sub> , and CH radical densities. Journal of Applied Physics, 2007, 102, 063309.	2.5	12
22	Spatial profiling of H(n= 2) atom number densities in a dc arc jet reactor. Plasma Sources Science and Technology, 2006, 15, 432-440.	3.1	5
23	Measurement and modeling of a diamond deposition reactor: Hydrogen atom and electron number densities in an Ar <sup>+</sup> •H <sub>2</sub> arc jet discharge. Journal of Applied Physics, 2005, 97, 113306.	2.5	20
24	Cavity ring-down spectroscopy measurements of the concentrations of C <sub>2</sub> (X <sup>1</sup> g <sup>+</sup> ) radicals in a DC arc jet reactor used for chemical vapour deposition of diamond films. Chemical Physics Letters, 2004, 383, 518-522.	2.6	16
25	Improved characterisation of C <sub>2</sub> and CH radical number density distributions in a DC arc jet used for diamond chemical vapour deposition. Diamond and Related Materials, 2004, 13, 561-568.	3.9	12
26	Structural characterisation of CN <sub>x</sub> thin films deposited by pulsed laser ablation. Diamond and Related Materials, 2003, 12, 1049-1054.	3.9	40
27	Radon metrology for use in climate change observation and radiation protection at the environmental level. Advances in Geosciences, 0, 57, 37-47.	12.0	8