

Christopher J Rennick

List of Publications by Year in descending order

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27
papers

564
citations

687363

13
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642732

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34
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34
docs citations

34
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution from a Molecular Rydberg Gas to an Ultracold Plasma in a Seeded Supersonic Expansion of NO. <i>Physical Review Letters</i> , 2008, 101, 205005.	7.8	85
2	The increasing atmospheric burden of the greenhouse gas sulfur hexafluoride (SF_6). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7271-7290.	4.9	63
3	HPCO—A Phosphorus-Containing Analogue of Isocyanic Acid. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3911-3915.	13.8	56
4	Structural characterisation of CN _x thin films deposited by pulsed laser ablation. <i>Diamond and Related Materials</i> , 2003, 12, 1049-1054.	3.9	40
5	Very slow expansion of an ultracold plasma formed in a seeded supersonic molecular beam of NO. <i>Physical Review A</i> , 2009, 79, .	2.5	27
6	Coulomb crystal mass spectrometry in a digital ion trap. <i>Physical Review A</i> , 2015, 91, .	2.5	26
7	Dissociation and the Development of Spatial Correlation in a Molecular Ultracold Plasma. <i>Physical Review Letters</i> , 2014, 112, 075001.	7.8	24
8	On the formation and decay of a molecular ultracold plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 184015.	1.5	23
9	Measurement and modeling of a diamond deposition reactor: Hydrogen atom and electron number densities in an Ar-H ₂ arc jet discharge. <i>Journal of Applied Physics</i> , 2005, 97, 113306.	2.5	20
10	Ejection of Coulomb Crystals from a Linear Paul Ion Trap for Ion-Molecule Reaction Studies. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12449-12456.	2.5	20
11	Molecular ion-electron recombination in an expanding ultracold neutral plasma of NO ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18872.	2.8	19
12	Magnetic Trapping of Cold Bromine Atoms. <i>Physical Review Letters</i> , 2014, 112, 023002.	7.8	17
13	Cavity ring-down spectroscopy measurements of the concentrations of C ₂ (X ¹ g ⁺) radicals in a DC arc jet reactor used for chemical vapour deposition of diamond films. <i>Chemical Physics Letters</i> , 2004, 383, 518-522.	2.6	16
14	Resonant Charge Transfer of Hydrogen Rydberg Atoms Incident on a Cu(100) Projected Band-Gap Surface. <i>Physical Review Letters</i> , 2015, 115, 093201.	7.8	13
15	Improved characterisation of C ₂ and CH radical number density distributions in a DC arc jet used for diamond chemical vapour deposition. <i>Diamond and Related Materials</i> , 2004, 13, 561-568.	3.9	12
16	Measurement and modeling of Ar-H ₂ -CH ₄ arc jet discharge chemical vapor deposition reactors. I. Intercomparison of derived spatial variations of H atom, C ₂ , and CH radical densities. <i>Journal of Applied Physics</i> , 2007, 102, 063309.	2.5	12
17	Simulating rotationally inelastic collisions using a direct simulation Monte Carlo method. <i>Molecular Physics</i> , 2015, 113, 3972-3978.	1.7	12
18	Zeeman deceleration beyond periodic phase space stability. <i>New Journal of Physics</i> , 2017, 19, 083016.	2.9	11

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19	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
20	A magnetic guide to purify radical beams. Journal of Chemical Physics, 2018, 149, 174201.	3.0	10
21	Laser induced rovibrational cooling of the linear polyatomic ion C_2H_2^+ . Journal of Chemical Physics, 2014, 140, 164314.	3.0	8
22	UK greenhouse gas measurements at two new tall towers for aiding emissions verification. Atmospheric Measurement Techniques, 2019, 12, 4495-4518.	3.1	8
23	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
24	A chopper system for shortening the duration of pulsed supersonic beams seeded with NO or Br ₂ down to 13 1/4s. Review of Scientific Instruments, 2015, 86, 053108.	1.3	6
25	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
26	Dissociative recombination and the decay of a molecular ultracold plasma. Journal of Physics: Conference Series, 2011, 300, 012005.	0.4	4
27	Collisional trap losses of cold magnetically trapped Br atoms. Physical Review A, 2014, 90, .	2.5	4