

David B Cassidy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,595
citations

21
h-index

38
g-index

66
ext. papers

1,828
ext. citations

5.3
avg, IF

5.06
L-index

#	Paper	IF	Citations
60	The production of molecular positronium. <i>Nature</i> , 2007 , 449, 195-7	50.4	201
59	Positronium cooling in porous silica measured via Doppler spectroscopy. <i>Physical Review A</i> , 2010 , 81,	2.6	103
58	Accumulator for the production of intense positron pulses. <i>Review of Scientific Instruments</i> , 2006 , 77, 073106	1.7	92
57	Experiments with a high-density positronium gas. <i>Physical Review Letters</i> , 2005 , 95, 195006	7.4	91
56	Single shot positron annihilation lifetime spectroscopy. <i>Applied Physics Letters</i> , 2006 , 88, 194105	3.4	86
55	Experimental progress in positronium laser physics. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	76
54	Efficient production of Rydberg positronium. <i>Physical Review Letters</i> , 2012 , 108, 043401	7.4	72
53	Optical spectroscopy of molecular positronium. <i>Physical Review Letters</i> , 2012 , 108, 133402	7.4	49
52	Production of a fully spin-polarized ensemble of positronium atoms. <i>Physical Review Letters</i> , 2010 , 104, 173401	7.4	46
51	Interactions between positronium atoms in porous silica. <i>Physical Review Letters</i> , 2008 , 100, 013401	7.4	45
50	Atom control and gravity measurements using Rydberg positronium. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 30, 1460259	0.7	42
49	Selective production of Rydberg-stark states of positronium. <i>Physical Review Letters</i> , 2015 , 114, 173001	7.4	38
48	Positronium hyperfine interval measured via saturated absorption spectroscopy. <i>Physical Review Letters</i> , 2012 , 109, 073401	7.4	37
47	Delayed emission of cold positronium from mesoporous materials. <i>Physical Review A</i> , 2010 , 82,	2.6	33
46	Cavity induced shift and narrowing of the positronium Lyman- α transition. <i>Physical Review Letters</i> , 2011 , 106, 023401	7.4	31
45	New mechanism for positronium formation on a silicon surface. <i>Physical Review Letters</i> , 2011 , 106, 133401	7.4	30
44	Doppler-corrected Balmer spectroscopy of Rydberg positronium. <i>Physical Review A</i> , 2014 , 90,	2.6	28

43	A trap-based pulsed positron beam optimised for positronium laser spectroscopy. <i>Review of Scientific Instruments</i> , 2015 , 86, 103101	1.7	24
42	Evidence for positronium molecule formation at a metal surface. <i>Physical Review A</i> , 2007 , 76,	2.6	23
41	Electrostatically Guided Rydberg Positronium. <i>Physical Review Letters</i> , 2016 , 117, 073202	7.4	23
40	Positronium as a probe of transient paramagnetic centers in αBiO_2 . <i>Physical Review B</i> , 2007 , 75,	3.3	22
39	Positronium emission from mesoporous silica studied by laser-enhanced time-of-flight spectroscopy. <i>New Journal of Physics</i> , 2015 , 17, 043059	2.9	21
38	Positronium formation via excitonlike states on Si and Ge surfaces. <i>Physical Review B</i> , 2011 , 84,	3.3	21
37	Formation of positron-atom bound states in collisions between Rydberg Ps and neutral atoms. <i>Physical Review A</i> , 2016 , 93,	2.6	20
36	Enhanced Ps-Ps interactions due to quantum confinement. <i>Physical Review Letters</i> , 2011 , 107, 213401	7.4	20
35	Physics with dense positronium. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 3419-3428	20	
34	Photoemission of positronium from Si. <i>Physical Review Letters</i> , 2011 , 107, 033401	7.4	19
33	Positronium decay from $n=2$ states in electric and magnetic fields. <i>Physical Review A</i> , 2016 , 93,	2.6	18
32	Positronium emission and cooling in reflection and transmission from thin meso-structured silica films. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 204003	1.3	18
31	Laser excitation of positronium in the Paschen-Back regime. <i>Physical Review Letters</i> , 2011 , 106, 173401	7.4	18
30	Measurement of Rydberg positronium fluorescence lifetimes. <i>Physical Review A</i> , 2016 , 93,	2.6	16
29	The development of the intense positron beam at Washington State University. <i>Applied Surface Science</i> , 2002 , 194, 296-300	6.7	16
28	Precision Microwave Spectroscopy of the Positronium $n=2$ Fine Structure. <i>Physical Review Letters</i> , 2020 , 125, 073002	7.4	16
27	Velocity selection of Rydberg positronium using a curved electrostatic guide. <i>Physical Review A</i> , 2017 , 95,	2.6	15
26	Antihydrogen from positronium impact with cold antiprotons: a Monte Carlo simulation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, 1923-1932	1.3	15

25	Controlling Positronium Annihilation with Electric Fields. <i>Physical Review Letters</i> , 2015 , 115, 183401	7.4	14
24	Positronium production in cryogenic environments. <i>Physical Review B</i> , 2016 , 93,	3.3	13
23	Spatial sampling of crystal electrons by in-flight annihilation of fast positrons. <i>Nature</i> , 1999 , 402, 157-160	9.4	13
22	Production of $2S_{13}$ positronium atoms by single-photon excitation in an electric field. <i>Physical Review A</i> , 2017 , 95,	2.6	12
21	A CF ₄ based positron trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 215001	1.3	12
20	Prospects for Studies of the Free Fall and Gravitational Quantum States of Antimatter. <i>Advances in High Energy Physics</i> , 2015 , 2015, 1-16	1	11
19	Strong drive compression of a gas-cooled positron plasma. <i>Applied Physics Letters</i> , 2010 , 96, 101502	3.4	7
18	Fundamental Physics with Cold Positronium. <i>AIP Conference Proceedings</i> , 2008 ,	0	7
17	Doppler broadening of in-flight positron annihilation radiation due to electron momentum. <i>Physical Review Letters</i> , 2001 , 86, 5612-5	7.4	7
16	Single-color two-photon spectroscopy of Rydberg states in electric fields. <i>Physical Review A</i> , 2014 , 90,	2.6	6
15	State-selective electric-field ionization of Rydberg positronium. <i>Physical Review A</i> , 2018 , 98,	2.6	6
14	Annihilation of positronium atoms confined in mesoporous and macroporous SiO ₂ films. <i>Physical Review B</i> , 2018 , 97,	3.3	6
13	Multiring electrostatic guide for Rydberg positronium. <i>Physical Review A</i> , 2019 , 100,	2.6	5
12	Excitonic positronium emission from n-Si(111). <i>Physical Review B</i> , 2012 , 86,	3.3	5
11	Resonant versus nonresonant nuclear excitation of ¹¹⁵ In by positron annihilation. <i>Physical Review C</i> , 2001 , 64,	2.7	5
10	Positronium emission from MgO smoke nanocrystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 105004	1.3	4
9	Comment on "Relativistic positron creation using ultraintense short pulse lasers". <i>Physical Review Letters</i> , 2009 , 103, 179501	7.4	3
8	Observation of asymmetric line shapes in precision microwave spectroscopy of the positronium $2S_{13}$ - $2P_{J3}$ (J=1,2) fine-structure intervals. <i>Physical Review A</i> , 2021 , 103,	2.6	3

7	Progress towards laser spectroscopy of atomic and molecular positronium. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 012037	0.3	2
6	Sticking coefficient of nitrogen on solid N ₂ at low temperatures. <i>Applied Surface Science</i> , 2007 , 253, 9467-9469	2.6	2
5	Resonant shifts of positronium energy levels in MgO powder. <i>Physical Review A</i> , 2020 , 101,	2.6	2
4	Cassidy et al Reply.. <i>Physical Review Letters</i> , 2011 , 106,	7.4	1
3	Fast decay of 2S ₁ positronium atoms in an MgO lined cavity. <i>EPJ Techniques and Instrumentation</i> , 2021 , 8,	1.8	1
2	Measurement of the annihilation decay rate of 2 S ₁ positronium. <i>Europhysics Letters</i> , 2020 , 132, 13001	1.6	0
1	Rydberg-Stark states of Positronium for atom optics. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 052064	0.3	