

# David B Cassidy

## List of Publications by Year in Descending Order

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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	Observation of asymmetric line shapes in precision microwave spectroscopy of the positronium $2S_{1/2}-2P_{1/2}$ ( $J=1,2$ ) fine-structure intervals. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	3
59	Fast decay of $2S_{1/2}$ positronium atoms in an MgO lined cavity. <i>EPJ Techniques and Instrumentation</i> , <b>2021</b> , 8,	1.8	1
58	Measurement of the annihilation decay rate of $2S_{1/2}$ positronium. <i>Europhysics Letters</i> , <b>2020</b> , 132, 13001	1.6	0
57	Resonant shifts of positronium energy levels in MgO powder. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	2
56	Precision Microwave Spectroscopy of the Positronium $n=2$ Fine Structure. <i>Physical Review Letters</i> , <b>2020</b> , 125, 073002	7.4	16
55	Positronium emission from MgO smoke nanocrystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2019</b> , 52, 105004	1.3	4
54	Multiring electrostatic guide for Rydberg positronium. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	5
53	Experimental progress in positronium laser physics. <i>European Physical Journal D</i> , <b>2018</b> , 72, 1	1.3	76
52	State-selective electric-field ionization of Rydberg positronium. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	6
51	Annihilation of positronium atoms confined in mesoporous and macroporous $\text{SiO}_2$ films. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	6
50	Production of $2S_{1/2}$ positronium atoms by single-photon excitation in an electric field. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	12
49	Velocity selection of Rydberg positronium using a curved electrostatic guide. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	15
48	Positronium decay from $n=2$ states in electric and magnetic fields. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	18
47	Formation of positron-atom bound states in collisions between Rydberg Ps and neutral atoms. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	20
46	Measurement of Rydberg positronium fluorescence lifetimes. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	16
45	Positronium production in cryogenic environments. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	13
44	A $\text{CF}_4$ based positron trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 215001	1.3	12

43	Electrostatically Guided Rydberg Positronium. <i>Physical Review Letters</i> , <b>2016</b> , 117, 073202	7.4	23
42	Positronium emission from mesoporous silica studied by laser-enhanced time-of-flight spectroscopy. <i>New Journal of Physics</i> , <b>2015</b> , 17, 043059	2.9	21
41	Selective production of Rydberg-stark states of positronium. <i>Physical Review Letters</i> , <b>2015</b> , 114, 173001	7.4	38
40	Controlling Positronium Annihilation with Electric Fields. <i>Physical Review Letters</i> , <b>2015</b> , 115, 183401	7.4	14
39	A trap-based pulsed positron beam optimised for positronium laser spectroscopy. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 103101	1.7	24
38	Rydberg-Stark states of Positronium for atom optics. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 052064	0.3	
37	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> , <b>2015</b> , 48, 204003	1.3	18
36	Prospects for Studies of the Free Fall and Gravitational Quantum States of Antimatter. <i>Advances in High Energy Physics</i> , <b>2015</b> , 2015, 1-16	1	11
35	Atom control and gravity measurements using Rydberg positronium. <i>International Journal of Modern Physics Conference Series</i> , <b>2014</b> , 30, 1460259	0.7	42
34	Single-color two-photon spectroscopy of Rydberg states in electric fields. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	6
33	Doppler-corrected Balmer spectroscopy of Rydberg positronium. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	28
32	Efficient production of Rydberg positronium. <i>Physical Review Letters</i> , <b>2012</b> , 108, 043401	7.4	72
31	Positronium hyperfine interval measured via saturated absorption spectroscopy. <i>Physical Review Letters</i> , <b>2012</b> , 109, 073401	7.4	37
30	Excitonic positronium emission from n-Si(111). <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	5
29	Optical spectroscopy of molecular positronium. <i>Physical Review Letters</i> , <b>2012</b> , 108, 133402	7.4	49
28	Laser excitation of positronium in the Paschen-Back regime. <i>Physical Review Letters</i> , <b>2011</b> , 106, 173401	7.4	18
27	Photoemission of positronium from Si. <i>Physical Review Letters</i> , <b>2011</b> , 107, 033401	7.4	19
26	New mechanism for positronium formation on a silicon surface. <i>Physical Review Letters</i> , <b>2011</b> , 106, 133401	7.4	30

25	Cassidy et al Reply.. <i>Physical Review Letters</i> , <b>2011</b> , 106,	7.4	1
24	Positronium formation via excitonlike states on Si and Ge surfaces. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	21
23	Enhanced Ps-Ps interactions due to quantum confinement. <i>Physical Review Letters</i> , <b>2011</b> , 107, 213401	7.4	20
22	Cavity induced shift and narrowing of the positronium Lyman- $\alpha$ transition. <i>Physical Review Letters</i> , <b>2011</b> , 106, 023401	7.4	31
21	Production of a fully spin-polarized ensemble of positronium atoms. <i>Physical Review Letters</i> , <b>2010</b> , 104, 173401	7.4	46
20	Positronium cooling in porous silica measured via Doppler spectroscopy. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	103
19	Strong drive compression of a gas-cooled positron plasma. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 101502	3.4	7
18	Delayed emission of cold positronium from mesoporous materials. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	33
17	Comment on "Relativistic positron creation using ultraintense short pulse lasers". <i>Physical Review Letters</i> , <b>2009</b> , 103, 179501	7.4	3
16	Progress towards laser spectroscopy of atomic and molecular positronium. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 012037	0.3	2
15	Fundamental Physics with Cold Positronium. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	7
14	Interactions between positronium atoms in porous silica. <i>Physical Review Letters</i> , <b>2008</b> , 100, 013401	7.4	45
13	Physics with dense positronium. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2007</b> , 4, 3419-3428	20	
12	The production of molecular positronium. <i>Nature</i> , <b>2007</b> , 449, 195-7	50.4	201
11	Sticking coefficient of nitrogen on solid N <sub>2</sub> at low temperatures. <i>Applied Surface Science</i> , <b>2007</b> , 253, 9467-9469	2	
10	Positronium as a probe of transient paramagnetic centers in aBiO <sub>2</sub> . <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	22
9	Evidence for positronium molecule formation at a metal surface. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	23
8	Accumulator for the production of intense positron pulses. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 073106	1.7	92

7	Single shot positron annihilation lifetime spectroscopy. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 194105	3.4	86
6	Experiments with a high-density positronium gas. <i>Physical Review Letters</i> , <b>2005</b> , 95, 195006	7.4	91
5	The development of the intense positron beam at Washington State University. <i>Applied Surface Science</i> , <b>2002</b> , 194, 296-300	6.7	16
4	Resonant versus nonresonant nuclear excitation of $^{115}\text{In}$ by positron annihilation. <i>Physical Review C</i> , <b>2001</b> , 64,	2.7	5
3	Doppler broadening of in-flight positron annihilation radiation due to electron momentum. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5612-5	7.4	7
2	Antihydrogen from positronium impact with cold antiprotons: a Monte Carlo simulation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1999</b> , 32, 1923-1932	1.3	15
1	Spatial sampling of crystal electrons by in-flight annihilation of fast positrons. <i>Nature</i> , <b>1999</b> , 402, 157-160	0.4	13