

Jâ€r Danielson

List of Publications by Year in descending order

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62
papers

1,291
citations

394421

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361022

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all docs

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docs citations

63
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Inviscid damping of an elliptical vortex subject to an external strain flow. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	1
2	Adiabatic behavior of an elliptical vortex in a time-dependent external strain flow. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6
3	Effect of chlorination on positron binding to hydrocarbons: Experiment and theory. <i>Physical Review A</i> , 2021, 104, .	2.5	8
4	Influence of geometry on positron binding to molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 225201.	1.5	4
5	Non-neutral plasma manipulation techniques in development of a high-capacity positron trap. <i>Review of Scientific Instruments</i> , 2021, 92, 123504.	1.3	9
6	Enhanced Resonant Positron Annihilation due to Nonfundamental Modes in Molecules. <i>Physical Review Letters</i> , 2020, 125, 173401.	7.8	6
7	A new frontier in laboratory physics: magnetized electron-positron plasmas. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	31
8	Instability of an electron-plasma shear layer in an externally imposed strain flow. <i>Physics of Plasmas</i> , 2020, 27, 042101.	1.9	4
9	Positron orbit effects during injection and confinement in a magnetic dipole trap. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	4
10	Injection of intense low-energy reactor-based positron beams into a supported magnetic dipole trap. <i>Plasma Research Express</i> , 2020, 2, 015006.	0.9	4
11	Confinement and manipulation of electron plasmas in a multicell trap. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	8
12	Confinement of Positrons Exceeding 1Ås in a Supported Magnetic Dipole Trap. <i>Physical Review Letters</i> , 2018, 121, 235003.	7.8	19
13	Lossless Positron Injection into a Magnetic Dipole Trap. <i>Physical Review Letters</i> , 2018, 121, 235005.	7.8	19
14	Manipulation of positron orbits in a dipole magnetic field with fluctuating electric fields. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
15	Toward a compact levitated superconducting dipole for positron-electron plasma confinement. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	8
16	An electron plasma experiment to study vortex dynamics subject to externally imposed flows. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
17	Experimental study of the stability and dynamics of a two-dimensional ideal vortex under external strain. <i>Journal of Fluid Mechanics</i> , 2018, 848, 256-287.	3.4	5
18	Vibrational Feshbach Resonances Mediated by Nondipole Positron-Molecule Interactions. <i>Physical Review Letters</i> , 2017, 119, 113402.	7.8	18

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19	Mode coupling and multiquantum vibrational excitations in Feshbach-resonant positron annihilation in molecules. <i>Physical Review A</i> , 2017, 96, .	2.5	13
20	Evolution of a Vortex in a Strain Flow. <i>Physical Review Letters</i> , 2016, 117, 235001.	7.8	19
21	A cryogenically cooled, ultra-high-energy-resolution, trap-based positron beam. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	26
22	Formation mechanisms and optimization of trap-based positron beams. <i>Physics of Plasmas</i> , 2016, 23, 023505.	1.9	9
23	Magnetic field extraction of trap-based electron beams using a high-permeability grid. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
24	Finite-length, large-amplitude diocotron mode dynamics. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	3
25	Progress toward positron-electron pair plasma experiments. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	6
26	Plasma and trap-based techniques for science with positrons. <i>Reviews of Modern Physics</i> , 2015, 87, 247-306.	45.6	192
27	Electron plasma dynamics during autoresonant excitation of the diocotron mode. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	8
28	Formation of buffer-gas-trap based positron beams. <i>Physics of Plasmas</i> , 2015, 22, 033501.	1.9	18
29	Positron cooling by vibrational and rotational excitation of molecular gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 225209.	1.5	35
30	Electron Plasma Orbits from Competing Diocotron Drifts. <i>Physical Review Letters</i> , 2014, 113, 025004.	7.8	9
31	Progress towards a practical multicell positron trap. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	5
32	Recent progress in tailoring trap-based positron beams. , 2013, , .		2
33	Role of Vibrational Dynamics in Resonant Positron Annihilation on Molecules. <i>Physical Review Letters</i> , 2013, 110, 223201.	7.8	17
34	Modeling enhancement and suppression of vibrational Feshbach resonances in positron annihilation on molecules. <i>Physical Review A</i> , 2013, 88, .	2.5	12
35	Measuring positronâ€atom binding energies through laser-assisted photorecombination. <i>New Journal of Physics</i> , 2012, 14, 065004.	2.9	24
36	Positron binding to alcohol molecules. <i>New Journal of Physics</i> , 2012, 14, 015006.	2.9	35

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37	Plans for the creation and studies of electron“positron plasmas in a stellarator. New Journal of Physics, 2012, 14, 035010.	2.9	82
38	Publisher“s Note: Interplay between permanent dipole moments and polarizability in positron-molecule binding [Phys. Rev. A85, 022709 (2012)]. Physical Review A, 2012, 85, .	2.5	4
39	Interplay between permanent dipole moments and polarizability in positron-molecule binding. Physical Review A, 2012, 85, .	2.5	36
40	Comparisons of Positron and Electron Binding to Molecules. Physical Review Letters, 2012, 109, 113201.	7.8	44
41	Ubiquitous Nature of Multimode Vibrational Resonances in Positron-Molecule Annihilation. Physical Review Letters, 2012, 108, 093201.	7.8	13
42	Note: Electrostatic beams from a 5 T Penning“Malmberg trap. Review of Scientific Instruments, 2011, 82, 016104.	1.3	4
43	Dipole Enhancement of Positron Binding to Molecules. Physical Review Letters, 2010, 104, 233201.	7.8	77
44	Electrostatic beams from tailored plasmas in a Penning“Malmberg trap. Physics of Plasmas, 2010, 17, 123507.	1.9	14
45	Energy spectra of tailored particle beams from trapped single-component plasmas. Physics of Plasmas, 2009, 16, 057105.	1.9	6
46	Next Generation Trap for Positron Storage. , 2009, , .		0
47	Dependence of positron“molecule binding energies on molecular properties. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 235203.	1.5	71
48	Tailored Particle Beams From Single-Component Plasmas. , 2009, , .		1
49	New plasma tools for antimatter science. , 2009, , .		1
50	New Plasma Tools for Antimatter Science. AIP Conference Proceedings, 2008, , .	0.4	5
51	Creation of finely focused particle beams from single-component plasmas. Physics of Plasmas, 2008, 15, .	1.9	12
52	Extraction of small-diameter beams from single-component plasmas. Applied Physics Letters, 2007, 90, 081503.	3.3	18
53	High-Density Fixed Point for Radially Compressed Single-Component Plasmas. Physical Review Letters, 2007, 99, 135005.	7.8	33
54	Plasma Compression using Rotating Electric Fields “ the Strong Drive Regime. AIP Conference Proceedings, 2006, , .	0.4	0

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55	Plasma manipulation techniques for positron storage in a multicell trap. Physics of Plasmas, 2006, 13, 123502.	1.9	49
56	Radial compression and torque-balanced steady states of single-component plasmas in Penning-Malmberg traps. Physics of Plasmas, 2006, 13, 055706.	1.9	41
57	Torque-Balanced High-Density Steady States of Single-Component Plasmas. Physical Review Letters, 2005, 94, 035001.	7.8	53
58	Measurement of Landau Damping and the Evolution to a BGK Equilibrium. Physical Review Letters, 2004, 92, 245003.	7.8	74
59	Thermally Excited Modes in a Pure Electron Plasma. Physical Review Letters, 2003, 90, 115001.	7.8	9
60	Resonant Particle Heating of an Electron Plasma by Oscillating Sheaths. Physical Review Letters, 1998, 81, 353-356.	7.8	24
61	The nonlinear saturation of beam-driven instabilities: Irregular bursting in the DIII-D tokamak. Physics of Plasmas, 1994, 1, 4120-4122.	1.9	11
62	Energy distribution and adiabatic guiding of a solid-neon-moderated positron beam. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	9