Pierre Sikivie

List of Publications by Year
in descending order

96	11,764	38742 50	45317 90
papers	citations	h-index	g-index

99	99	99	3996
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resonant excitation of the axion field during the QCD phase transition. Physical Review D, 2022, 105, .	4.7	6
2	Clean Energy from Dark Matter?. , 2022, , 225-230.		0
3	Invisible axion search methods. Reviews of Modern Physics, 2021, 93, .	45.6	181
4	Implications of triangular features in the Gaia skymap for the Caustic Ring Model of the Milky Way halo. Physics of the Dark Universe, 2021, 33, 100838.	4.9	6
5	Axion Dark Matter Experiment: Detailed designÂand operations. Review of Scientific Instruments, 2021, 92, 124502.	1.3	18
6	Search for Invisible Axion Dark Matter in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3.3</mml:mn><mml:mo>â€“</mml:mo><mml:mn>4.2</mml:mn><mml:mtext>â€‰</mml:mtext></mml:mrow></mml:math> Mass Range. Physical Review Letters, 2021, 127, 261803.	7.8	127
7	ADMX SLIC: Results from a Superconducting LC Circuit Investigating Cold Axions. Physical Review Letters, 2020, 124, 241101.	7.8	63
8	Extended Search for the Invisible Axion with the Axion Dark Matter Experiment. Physical Review Letters, 2020, 124, 101303.	7.8	275
9	Production and Detection of an Axion Dark Matter Echo. Physical Review Letters, 2019, 123, 131804.	7.8	32
10	Axion dark matter and the 21-cm signal. Physics of the Dark Universe, 2019, 24, 100289.	4.9	14
11	Search for Invisible Axion Dark Matter with the Axion Dark Matter Experiment. Physical Review Letters, 2018, 120, 151301.	7.8	384
12	Piezoelectrically Tuned Multimode Cavity Search for Axion Dark Matter. Physical Review Letters, 2018, 121, 261302.	7.8	91
13	New astrophysical bounds on ultralight axionlike particles. Physical Review D, 2017, 95, .	4.7	17
14	Towards a medium-scale axion helioscope and haloscope. Journal of Instrumentation, 2017, 12, P11019-P11019.	1.2	29
15	Modulation sensitive search for nonvirialized dark-matter axions. Physical Review D, 2016, 94, .	4.7	18
16	Evolution of velocity dispersion along cold collisionless flows. Physical Review D, 2016, 93, .	4.7	9
17	Cavity design for high-frequency axion dark matter detectors. Review of Scientific Instruments, 2015, 86, 123305.	1.3	31
18	Axion Dark Matter Detection Using Atomic Transitions. Physical Review Letters, 2014, 113, 201301.	7.8	80

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19	Proposal for Axion Dark Matter Detection Using an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi><mml:mi>C</mml:mi></mml:math>Circuit. Physical Review Letters, 2014, 112, 131301.	7.8	153
20	Conceptual design of the International Axion Observatory (IAXO). Journal of Instrumentation, 2014, 9, T05002-T05002.	1.2	201
21	Prospects for searching axionlike particle dark matter with dipole, toroidal, and wiggler magnets. Physical Review D, 2012, 85, .	4.7	41
22	Cosmic axion thermalization. Physical Review D, 2012, 85, .	4.7	106
23	The emerging case for axion dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 22-25.	4.1	58
24	Search for nonvirialized axionic dark matter. Physical Review D, 2011, 84, .	4.7	71
25	Dark Matter Axions. , 2010, , .		0
26	SQUID-Based Microwave Cavity Search for Dark-Matter Axions. Physical Review Letters, 2010, 104, 041301.	7.8	529
27	Search for Hidden Sector Photons with the ADMX Detector. Physical Review Letters, 2010, 105, 171801.	7.8	68
28	DARK MATTER AXIONS. International Journal of Modern Physics A, 2010, 25, 554-563.	1.5	65
29	Resonantly-enhanced axion-photon regeneration. , 2010, , .		2
30	Bose-Einstein Condensation of Dark Matter Axions. Physical Review Letters, 2009, 103, 111301.	7.8	361
31	Detailed design of a resonantly enhanced axion-photon regeneration experiment. Physical Review D, 2009, 80, .	4.7	38
32	Caustic ring model of the MilkyÂWay halo. Physical Review D, 2008, 78, .	4.7	71
33	Further look at particle annihilation in dark matter caustics. Physical Review D, 2008, 77, .	4.7	12
34	Axion Cosmology. Lecture Notes in Physics, 2008, , 19-50.	0.7	234
35	Does the second caustic ring of dark matter cause the Monoceros Ring of stars?. Physical Review D, 2007, 76, .	4.7	21
36	Resonantly Enhanced Axion-Photon Regeneration. Physical Review Letters, 2007, 98, .	7.8	91

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37	High resolution search for dark-matter axions. Physical Review D, 2006, 74, .	4.7	147
38	Searches for Astrophysical and Cosmological Axions. Annual Review of Nuclear and Particle Science, 2006, 56, 293-326.	10.2	109
39	COLD DARK MATTER FLOWS AND CAUSTICS. , 2005, , .		0
40	Results of a Search for Cold Flows of Dark Matter Axions. Physical Review Letters, 2005, 95, 091304.	7.8	51
41	Robustness of discrete flows and caustics in cold dark matter cosmology. Physical Review D, 2005, 72, .	4.7	27
42	COLD DARK MATTER FLOWS AND CAUSTICS. , 2005, , .		0
43	Improved rf cavity search for halo axions. Physical Review D, 2004, 69, .	4.7	153
44	Diurnal and annual modulation of cold dark matter signals. Physical Review D, 2004, 70, .	4.7	78
45	Evidence for ring caustics in the Milky Way. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 567, 1-8.	4.1	59
46	Microwave cavity searches for dark-matter axions. Reviews of Modern Physics, 2003, 75, 777-817.	45.6	209
47	Gravitational lensing by dark matter caustics. Physical Review D, 2003, 67, .	4.7	15
48	AXIONS AND THEIR DISTRIBUTION IN GALACTIC HALOS. , 2003, , .		1
49	Experimental Constraints on the Axion Dark Matter Halo Density. Astrophysical Journal, 2002, 571, L27-L30.	4.5	71
50	The Big Flow. AIP Conference Proceedings, 2002, , .	0.4	1
51	Large-scale microwave cavity search for dark-matter axions. Physical Review D, 2001, 64, .	4.7	154
52	Dark Matter Caustics. Annals of the New York Academy of Sciences, 2001, 927, 102-109.	3.8	1
53	DARK MATTER CAUSTICS. , 2001, , .		0
54	Dark matter caustics. Annals of the New York Academy of Sciences, 2001, 927, 102-9.	3.8	0

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55	DARK MATTER CAUSTICS. , 2000, , .		1
56	Results from a High-Sensitivity Search for Cosmic Axions. Physical Review Letters, 1998, 80, 2043-2046.	7.8	162
57	Secondary infall model of galactic halo formation and the spectrum of cold dark matter particles on Earth. Physical Review D, 1997, 56, 1863-1878.	4.7	136
58	Velocity Peaks in the Cold Dark Matter Spectrum on Earth. Physical Review Letters, 1995, 75, 2911-2915.	7.8	96
59	A NEXT-GENERATION CAVITY MICROWAVE EXPERIMENT TO SEARCH FOR DARK-MATTER AXIONS. International Journal of Modern Physics D, 1994, 03, 33-42.	2.1	8
60	DARK MATTER AXIONS. International Journal of Modern Physics D, 1994, 03, 1-20.	2.1	9
61	Axion detection in the10âˆ'4eV mass range. Physical Review D, 1994, 50, 4744-4748.	4.7	20
62	Stretching wiggly strings. Physical Review D, 1994, 50, 7410-7420.	4.7	10
63	Long-range forces from two-neutrino exchange reexamined. Physical Review D, 1994, 49, 4951-4953.	4.7	51
64	Casimir forces between beads on strings. Physical Review Letters, 1993, 71, 1136-1139.	7.8	13
65	Wiggly relativistic strings. Physical Review Letters, 1992, 69, 2611-2614.	7.8	26
66	Phase-space structure of cold dark matter halos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 291, 288-292.	4.1	89
67	Effects of a Nambu-Goldstone boson on the polarization of radio galaxies and the cosmic microwave background. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 67-72.	4.1	184
68	Results from a search for cosmic axions. Physical Review D, 1990, 42, 1297-1300.	4.7	239
69	Cavity design for a cosmic axion detector. Review of Scientific Instruments, 1990, 61, 1076-1085.	1.3	47
70	Nuclear dipole radiation fromÎ¸oscillations. Physical Review D, 1990, 42, 1847-1850.	4.7	6
71	Search for dark matter axions. AIP Conference Proceedings, 1989, , .	0.4	1
72	Gravitational field of a global string. Physical Review D, 1988, 37, 3438-3440.	4.7	72

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73	Evidence for a Nambu-Goldstone Boson. Physical Review Letters, 1988, 61, 783-786.	7.8	33
74	Estimates of the density of dark matter near the center of the Galaxy. Physical Review D, 1987, 35, 3695-3704.	4.7	32
75	Microwave Detector for Galactic Halo Axions. Japanese Journal of Applied Physics, 1987, 26, 1705.	1.5	6
76	Structure of axionic domain walls. Physical Review D, 1985, 32, 1560-1568.	4.7	67
77	Detection rates for â€˜â€˜invisibleâ€™â€™-axion searches. Physical Review D, 1985, 32, 2988-2991.	4.7	288
78	Gravitationally repulsive domain wall. Physical Review D, 1984, 30, 712-719.	4.7	313
79	EXPERIMENTAL TESTS OF THE "INVISIBLE" AXION. Physical Review Letters, 1984, 52, 695-695.	7.8	266
80	On the interaction of magnetic monopoles with axionic domain walls. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 137, 353-356.	4.1	83
81	A cosmological bound on the invisible axion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 120, 133-136.	4.1	2,005
82	Experimental Tests of the "Invisible" Axion. Physical Review Letters, 1983, 51, 1415-1417.	7.8	1,255
83	Can Galactic Halos Be Made of Axions?. Physical Review Letters, 1983, 50, 925-927.	7.8	183
84	Axions, Domain Walls, and the Early Universe. Physical Review Letters, 1982, 48, 1156-1159.	7.8	559
85	Reply to "Characterization of sources and solutions in Yang-Mills theories". Physical Review D, 1982, 26, 533-533.	4.7	1
86	Can one test technicolour?. Nuclear Physics B, 1981, 182, 529-545.	2.5	163
87	Cabibbo-suppressed nonleptonicDdecays. Physical Review D, 1980, 21, 768-771.	4.7	25
88	Constraints on charged-Higgs-boson couplings. Physical Review D, 1980, 21, 1393-1403.	4.7	143
89	Static sources in classical Yang-Mills theory. Physical Review D, 1979, 20, 487-490.	4.7	26
90	Instability of Abelian field configurations in Yang-Mills theory. Physical Review D, 1979, 20, 877-880.	4.7	20

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91	Classical Yang-Mills theory in the presence of external sources. Physical Review D, 1978, 18, 3809-3821.	4.7	90
92	Screening Solutions to Classical Yang-Mills Theory. Physical Review Letters, 1978, 40, 1411-1413.	7.8	88
93	Lepton assignments in theE7model and trimuon events in neutrino scattering. Physical Review D, 1978, 18, 3164-3171.	4.7	4
94	Quark and lepton assignments in theE7model. Physical Review D, 1977, 16, 816-834.	4.7	39
95	E7as a Universal Gauge Group. Physical Review Letters, 1976, 36, 775-778.	7.8	239
96	Six-quark model for the suppression of”S=1neutral currents. Physical Review D, 1975, 12, 2166-2168.	4.7	24