James D Wells

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6675226/publications.pdf

Version: 2024-02-01

91 papers	4,957 citations	109137 35 h-index	88477 70 g-index
93 all docs	93 docs citations	93 times ranked	6298 citing authors

#	Article	IF	Citations
1	Study of constrained minimal supersymmetry. Physical Review D, 1994, 49, 6173-6210.	1.6	502
2	Phenomenological consequences of supersymmetry with anomaly induced masses. Nuclear Physics B, 1999, 559, 27-47.	0.9	326
3	First-order electroweak phase transition in the standard model with a low cutoff. Physical Review D, 2005, 71, .	1.6	233
4	Muon anomalous magnetic dipole moment in supersymmetric theories. Physical Review D, 2001, 64, .	1.6	229
5	Minimal spontaneously broken hidden sector and its impact on Higgs boson physics at the CERN Large Hadron Collider. Physical Review D, 2005, 72, .	1.6	227
6	PeV-scale supersymmetry. Physical Review D, 2005, 71, .	1.6	214
7	Sparticle spectroscopy and electroweak symmetry breaking with gauge-mediated supersymmetry breaking. Nuclear Physics B, 1997, 488, 39-91.	0.9	212
8	Dynamics of non-renormalizable electroweak symmetry breaking. Journal of High Energy Physics, 2008, 2008, 029-029.	1.6	170
9	Searching for supersymmetry in rareBdecays. Physical Review D, 1997, 55, 5549-5560.	1.6	157
10	Top quark forward-backward asymmetry from new<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>t</mml:mi></mml:math>-channel physics. Physical Review D, 2010, 81, .	1.6	134
11	Calculable upper limit on the mass of the lightest Higgs boson in perturbatively valid supersymmetric theories with arbitrary Higgs sectors. Physical Review Letters, 1993, 70, 2686-2689.	2.9	132
12	Gravitational wave, collider and dark matter signals from a scalar singlet electroweak baryogenesis. Journal of High Energy Physics, 2017, 2017, 1.	1.6	118
13	Phenomenology of Massive Vectorlike Doublet Leptons. Physical Review Letters, 1998, 81, 34-37.	2.9	116
14	How can a heavy Higgs boson be consistent with the precision electroweak measurements?. Physical Review D, 2001, 64, .	1.6	101
15	Probing the pre-BBN universe with gravitational waves from cosmic strings. Journal of High Energy Physics, 2019, 2019, 1.	1.6	101
16	Implications of for supersymmetry searches and model-building. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 219-228.	1.5	88
17	Survey of vector-like fermion extensions of the Standard Model and their phenomenological implications. Journal of High Energy Physics, 2014, 2014, 1.	1.6	88
18	Implications of low energy supersymmetry breaking at the Fermilab Tevatron. Physical Review D, 1996, 54, 3283-3288.	1.6	87

#	Article	IF	Citations
19	Inflationary theory and pulsar timing investigations of primordial black holes and gravitational waves. Physical Review D, 2017, 95, .	1.6	81
20	Cosmic archaeology with gravitational waves from cosmic strings. Physical Review D, 2018, 97, .	1.6	80
21	Revisiting topâ€“bottom-tau Yukawa unification in supersymmetric grand unified theories. Nuclear Physics B, 2003, 663, 123-140.	0.9	78
22	Narrow trans-TeV Higgs bosons andHâ†'hhdecays: two LHC search paths for a hidden sector Higgs boson. Journal of High Energy Physics, 2007, 2007, 036-036.	1.6	76
23	Top quark asymmetry from a non-Abelian horizontal symmetry. Physical Review D, 2011, 83, .	1.6	66
24	Constraints on supersymmetric soft phases from renormalization group relations. Physical Review D, 1997, 55, 1611-1622.	1.6	65
25	Hadron and linear collider probes of hidden-sector gauge bosons. Physical Review D, 2006, 74, .	1.6	55
26	Theory, phenomenology, and prospects for detection of supersymmetric dark matter. Physical Review D, 1995, 52, 4223-4239.	1.6	53
27	A global fit of LEP/SLC data with light superpartners. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 354, 350-356.	1.5	52
28	Gravitational wave and collider implications of electroweak baryogenesis aided by non-standard cosmology. Journal of High Energy Physics, 2017, 2017, 1.	1.6	49
29	Effective theories of universal theories. Journal of High Energy Physics, 2016, 2016, 1.	1.6	48
30	Motivation and detectability of an invisibly decaying Higgs boson at the Fermilab Tevatron. Physical Review D, 1999, 60, .	1.6	47
31	Nucleon scattering with Higgsino andW-ino cold dark matter. Physical Review D, 2001, 64, .	1.6	47
32	Possible signals of constrained minimal supersymmetry at a high luminosity Fermilab Tevatron collider. Physical Review D, 1996, 53, 1168-1180.	1.6	46
33	Prospects for electroweakino discovery at a 100 TeV hadron collider. Journal of High Energy Physics, 2014, 2014, 1.	1.6	46
34	Implications for Supersymmetry of the Reported Deviations from the Standard Model forÎ³(Zâ†'bbÂ¯)andÎ±s(mZ2). Physical Review Letters, 1996, 76, 869-872.	2.9	44
35	Cosmic strings from supersymmetric flat directions. Physical Review D, 2008, 77, .	1.6	38
36	Two-photon decays of the lightest Higgs boson of supersymmetry at the CERN LHC. Physical Review D, 1996, 53, 213-220.	1.6	34

#	Article	IF	Citations
37	PeV neutrinos and a 3.5ÂkeV x-ray line from a PeV-scale supersymmetric neutrino sector. Physical Review D, 2015, 92, .	1.6	33
38	Higgs boson interactions in supersymmetric theories with large tanÎ². Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 445, 178-184.	1.5	31
39	Predictions for constrained minimal supersymmetry with bottom-quarkâ€“Ï„ mass unification. Physical Review D, 1994, 50, 3498-3507.	1.6	29
40	Probing the Green-Schwarz mechanism at the CERN Large Hadron Collider. Physical Review D, 2008, 77, .	1.6	29
41	Implications of an Improved Neutron-Antineutron Oscillation Search for Baryogenesis: A Minimal Effective Theory Analysis. Physical Review Letters, 2018, 121, 171801.	2.9	28
42	Higgs boson search significance deformations due to mixed-in scalars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 154-158.	1.5	27
43	Cornering gauge-mediated supersymmetry breaking with quasistable sleptons at the Fermilab Tevatron. Physical Review D, 1999, 59, .	1.6	26
44	Virtual effects of light gauginos and Higgsinos: A precision electroweak analysis of split supersymmetry. Physical Review D, 2005, 71, .	1.6	25
45	Implications of gauge-mediated supersymmetry breaking with vectorlike quarks and a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo>âˆ¼</mml:mo><mml:mn>125</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext> boson. Physical Review D, 2012, 86, .	1.6	25
46	Higgsino Cold Dark Matter Motivated by Collider Data. Physical Review Letters, 1996, 76, 4458-4461.	2.9	24
47	Trilepton Higgs boson signal at hadron colliders. Physical Review D, 1998, 57, 4446-4452.	1.6	24
48	Higgs boson exempt no-scale supersymmetry and its collider and cosmology implications. Physical Review D, 2007, 75, .	1.6	20
49	Higgs bosons strongly coupled to the top quark. Nuclear Physics B, 1998, 523, 3-16.	0.9	19
50	Illuminating Dark Matter and Primordial Black Holes with Interstellar Antiprotons. Astrophysical Journal, 1999, 518, 570-575.	1.6	19
51	Next generation Higgs bosons: Theory, constraints, and discovery prospects at the Large Hadron Collider. Physical Review D, 2010, 81, .	1.6	19
52	The utility of Naturalness, and how its application to Quantum Electrodynamics envisages the Standard Model and Higgs boson. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2015, 49, 102-108.	1.4	18
53	Effective field theory approach to trans-TeV supersymmetry: covariant matching, Yukawa unification and Higgs couplings. Journal of High Energy Physics, 2018, 2018, 1.	1.6	18
54	Higgs boson mass limits in perturbative unification theories. Physical Review D, 2002, 66, .	1.6	15

#	Article	IF	Citations
55	Gaugino physics of split supersymmetry spectra at the LHC and future proton colliders. Physical Review D, 2014, 89, .	1.6	15
56	Renormalization group evolution of the universal theories EFT. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
57	Enabling electroweak baryogenesis through dark matter. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
58	Higgs naturalness and the scalar boson proliferation instability problem. SynthÃˆse, 2017, 194, 477-490.	0.6	15
59	Neutrino-induced lepton flavor violation in gauge-mediated supersymmetry breaking. Physical Review D, 2004, 69, .	1.6	14
60	Top-quark asymmetry and the search for a light hadronic resonance in association with a single top quark. Physical Review D, 2011, 84, .	1.6	14
61	Top quark asymmetry and dijet resonances. Physical Review D, 2011, 84, .	1.6	14
62	Exotic sterile neutrinos and pseudo-Goldstone phenomenology. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
63	Study of the standard model Higgs boson partial widths and branching fractions. Physical Review D, 2014, 89, .	1.6	13
64	Supersymmetric dark matter with a cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 443, 196-200.	1.5	12
65	Sterile neutrino dark matter with supersymmetry. Physical Review D, 2017, 96, .	1.6	12
66	Multi-GeV photons from electronâ€“dark-matter scattering near active galactic nuclei. Physical Review D, 1998, 57, 1299-1302.	1.6	11
67	Explanation and the dimensionality of space. SynthÃˆse, 2015, 192, 287-303.	0.6	11
68	THE IMPORTANCE OF TAU LEPTONS FOR SUPERSYMMETRY SEARCHES AT THE TEVATRON. Modern Physics Letters A, 1998, 13, 1923-1930.	0.5	10
69	ProbingCP-violation at colliders through interference effects in diboson production and decay. Physical Review D, 2008, 78, .	1.6	10
70	Naturalness, Extra-Empirical Theory Assessments, and the Implications of Skepticism. Foundations of Physics, 2019, 49, 991-1010.	0.6	10
71	Higgs boson decays into narrow diphoton jets and their search strategies at the Large Hadron Collider. Physical Review D, 2021, 104, .	1.6	10
72	Model-independent description and Large Hadron Collider implications of suppressed two-photon decay of a light Higgs boson. Physical Review D, 2007, 75, .	1.6	8

#	Article	IF	Citations
73	Race to find split Higgsino dark matter. Physical Review D, 2022, 105, .	1.6	8
74	Electroweak symmetry-breaking Higgs boson in models with top-quark condensation. Physical Review D, 1997, 56, 1504-1510.	1.6	7
75	Role of low-energy observables in precision Higgs boson analyses. Physical Review D, 2015, 91, .	1.6	6
76	Vacuum stability with tachyonic boundary Higgs masses in no-scale supersymmetry or gaugino mediation. Physical Review D, 2009, 80, .	1.6	5
77	Higgs boson mass and high-luminosity LHC probes of supersymmetry with vectorlike top quark. Physical Review D, 2015, 91, .	1.6	5
78	INTRODUCTION TO PRECISION ELECTROWEAK ANALYSIS. , 2006, , .		5
79	Beyond the hypothesis: Theory's role in the genesis, opposition, and pursuit of the Higgs boson. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2018, 62, 36-44.	1.4	4
80	Finetuned Cancellations and Improbable Theories. Foundations of Physics, 2019, 49, 428-443.	0.6	4
81	Axion-Like Particles at the ILC Giga-Z. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
82	ExtractingRbandRcwithout Flavor Tagging. Physical Review Letters, 1996, 76, 3259-3262.	2.9	3
83	Comparison of electric dipole moments and the Large Hadron Collider for probingCPviolation in triple boson vertices. Physical Review D, 2009, 80, .	1.6	3
84	Probing non-standard neutrino interactions with supernova neutrinos at Hyper-K. Journal of High Energy Physics, 2020, 2020, 1.	1.6	3
85	Mass Density of Neutralino Dark Matter. Advanced Series on Directions in High Energy Physics, 2010, , 269-287.	0.7	3
86	Minimally modified A4 Altarelli-Feruglio model for neutrino masses and mixings and its experimental consequences. Physical Review D, 2020, 102, .	1.6	2
87	Dark-matter in gravity-mediated supersymmetry breaking. Nuclear Physics, Section B, Proceedings Supplements, 1998, 62, 235-240.	0.5	1
88	Establishing the isolated standard model. Physical Review D, 2017, 96, .	1.6	1
89	Suppressing supersymmetric flavor violations through quenched gaugino-flavor interactions. Physical Review D, 2017, 95, .	1.6	0
90	EPJH Editorial. European Physical Journal H, 2021, 46, 1.	0.5	0

#	Article	IF	Citations
91	Discovery Goals and Opportunities: A Defense of BSM-Oriented Exploration over Signalism. SpringerBriefs in Physics, 2020, , 1-50.	0.2	0