

James D Wells

List of Publications by Year in descending order

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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	Race to find split Higgsino dark matter. <i>Physical Review D</i> , 2022, 105, .	1.6	8
2	EPJH Editorial. <i>European Physical Journal H</i> , 2021, 46, 1.	0.5	0
3	Higgs boson decays into narrow diphoton jets and their search strategies at the Large Hadron Collider. <i>Physical Review D</i> , 2021, 104, .	1.6	10
4	Axion-Like Particles at the ILC Giga-Z. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	4
5	Minimally modified A4 Altarelli-Feruglio model for neutrino masses and mixings and its experimental consequences. <i>Physical Review D</i> , 2020, 102, .	1.6	2
6	Probing non-standard neutrino interactions with supernova neutrinos at Hyper-K. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	3
7	Discovery Goals and Opportunities: A Defense of BSM-Oriented Exploration over Signalism. <i>SpringerBriefs in Physics</i> , 2020, , 1-50.	0.2	0
8	Exotic sterile neutrinos and pseudo-Goldstone phenomenology. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	14
9	Finetuned Cancellations and Improbable Theories. <i>Foundations of Physics</i> , 2019, 49, 428-443.	0.6	4
10	Probing the pre-BBN universe with gravitational waves from cosmic strings. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	101
11	Naturalness, Extra-Empirical Theory Assessments, and the Implications of Skepticism. <i>Foundations of Physics</i> , 2019, 49, 991-1010.	0.6	10
12	Beyond the hypothesis: Theory's role in the genesis, opposition, and pursuit of the Higgs boson. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2018, 62, 36-44.	1.4	4
13	Implications of an Improved Neutron-Antineutron Oscillation Search for Baryogenesis: A Minimal Effective Theory Analysis. <i>Physical Review Letters</i> , 2018, 121, 171801.	2.9	28
14	Effective field theory approach to trans-TeV supersymmetry: covariant matching, Yukawa unification and Higgs couplings. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	18
15	Cosmic archaeology with gravitational waves from cosmic strings. <i>Physical Review D</i> , 2018, 97, .	1.6	80
16	Higgs naturalness and the scalar boson proliferation instability problem. <i>Synthese</i> , 2017, 194, 477-490.	0.6	15
17	Sterile neutrino dark matter with supersymmetry. <i>Physical Review D</i> , 2017, 96, .	1.6	12
18	Inflationary theory and pulsar timing investigations of primordial black holes and gravitational waves. <i>Physical Review D</i> , 2017, 95, .	1.6	81

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19	Establishing the isolated standard model. Physical Review D, 2017, 96, .	1.6	1
20	Suppressing supersymmetric flavor violations through quenched gaugino-flavor interactions. Physical Review D, 2017, 95, .	1.6	0
21	Gravitational wave, collider and dark matter signals from a scalar singlet electroweak baryogenesis. Journal of High Energy Physics, 2017, 2017, 1.	1.6	118
22	Gravitational wave and collider implications of electroweak baryogenesis aided by non-standard cosmology. Journal of High Energy Physics, 2017, 2017, 1.	1.6	49
23	Renormalization group evolution of the universal theories EFT. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
24	Enabling electroweak baryogenesis through dark matter. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
25	Effective theories of universal theories. Journal of High Energy Physics, 2016, 2016, 1.	1.6	48
26	Role of low-energy observables in precision Higgs boson analyses. Physical Review D, 2015, 91, .	1.6	6
27	Higgs boson mass and high-luminosity LHC probes of supersymmetry with vectorlike top quark. Physical Review D, 2015, 91, .	1.6	5
28	PeV neutrinos and a 3.5ÅkeV x-ray line from a PeV-scale supersymmetric neutrino sector. Physical Review D, 2015, 92, .	1.6	33
29	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
30	Explanation and the dimensionality of space. SynthÃ^se, 2015, 192, 287-303.	0.6	11
31	Study of the standard model Higgs boson partial widths and branching fractions. Physical Review D, 2014, 89, .	1.6	13
32	Gaugino physics of split supersymmetry spectra at the LHC and future proton colliders. Physical Review D, 2014, 89, .	1.6	15
33	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
34	Prospects for electroweakino discovery at a 100 TeV hadron collider. Journal of High Energy Physics, 2014, 2014, 1.	1.6	46
35	Implications of gauge-mediated supersymmetry breaking with vectorlike quarks and a $\frac{1}{4}$ baryon number violating operator. Physical Review D, 2012, 86, .	1.6	25
36	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

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37	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
38	Top quark asymmetry from a non-Abelian horizontal symmetry. Physical Review D, 2011, 83, .	1.6	66
39	Top quark asymmetry and dijet resonances. Physical Review D, 2011, 84, .	1.6	14
40	Next generation Higgs bosons: Theory, constraints, and discovery prospects at the Large Hadron Collider. Physical Review D, 2010, 81, .	1.6	19
41	Top quark forward-backward asymmetry from new t -channel physics. Physical Review D, 2010, 81, .	1.6	134
42	Mass Density of Neutralino Dark Matter. Advanced Series on Directions in High Energy Physics, 2010, , 269-287.	0.7	3
43	Vacuum stability with tachyonic boundary Higgs masses in no-scale supersymmetry or gaugino mediation. Physical Review D, 2009, 80, .	1.6	5
44	Comparison of electric dipole moments and the Large Hadron Collider for probing CP violation in triple boson vertices. Physical Review D, 2009, 80, .	1.6	3
45	Probing CP-violation at colliders through interference effects in diboson production and decay. Physical Review D, 2008, 78, .	1.6	10
46	Probing the Green-Schwarz mechanism at the CERN Large Hadron Collider. Physical Review D, 2008, 77, .	1.6	29
47	Cosmic strings from supersymmetric flat directions. Physical Review D, 2008, 77, .	1.6	38
48	Dynamics of non-renormalizable electroweak symmetry breaking. Journal of High Energy Physics, 2008, 2008, 029-029.	1.6	170
49	Narrow trans-TeV Higgs bosons and $h \rightarrow hh$ decays: two LHC search paths for a hidden sector Higgs boson. Journal of High Energy Physics, 2007, 2007, 036-036.	1.6	76
50	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
51	Higgs boson exempt no-scale supersymmetry and its collider and cosmology implications. Physical Review D, 2007, 75, .	1.6	20
52	Hadron and linear collider probes of hidden-sector gauge bosons. Physical Review D, 2006, 74, .	1.6	55
53	INTRODUCTION TO PRECISION ELECTROWEAK ANALYSIS. , 2006, , .		5
54	First-order electroweak phase transition in the standard model with a low cutoff. Physical Review D, 2005, 71, .	1.6	233

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55	Minimal spontaneously broken hidden sector and its impact on Higgs boson physics at the CERN Large Hadron Collider. <i>Physical Review D</i> , 2005, 72, .	1.6	227
56	Virtual effects of light gauginos and Higgsinos: A precision electroweak analysis of split supersymmetry. <i>Physical Review D</i> , 2005, 71, .	1.6	25
57	PeV-scale supersymmetry. <i>Physical Review D</i> , 2005, 71, .	1.6	214
58	Neutrino-induced lepton flavor violation in gauge-mediated supersymmetry breaking. <i>Physical Review D</i> , 2004, 69, .	1.6	14
59	Revisiting top-bottom-tau Yukawa unification in supersymmetric grand unified theories. <i>Nuclear Physics B</i> , 2003, 663, 123-140.	0.9	78
60	Higgs boson mass limits in perturbative unification theories. <i>Physical Review D</i> , 2002, 66, .	1.6	15
61	How can a heavy Higgs boson be consistent with the precision electroweak measurements?. <i>Physical Review D</i> , 2001, 64, .	1.6	101
62	Muon anomalous magnetic dipole moment in supersymmetric theories. <i>Physical Review D</i> , 2001, 64, .	1.6	229
63	Nucleon scattering with Higgsino and W-ino cold dark matter. <i>Physical Review D</i> , 2001, 64, .	1.6	47
64	Cornering gauge-mediated supersymmetry breaking with quasistable sleptons at the Fermilab Tevatron. <i>Physical Review D</i> , 1999, 59, .	1.6	26
65	Motivation and detectability of an invisibly decaying Higgs boson at the Fermilab Tevatron. <i>Physical Review D</i> , 1999, 60, .	1.6	47
66	Phenomenological consequences of supersymmetry with anomaly induced masses. <i>Nuclear Physics B</i> , 1999, 559, 27-47.	0.9	326
67	Illuminating Dark Matter and Primordial Black Holes with Interstellar Antiprotons. <i>Astrophysical Journal</i> , 1999, 518, 570-575.	1.6	19
68	Dark-matter in gravity-mediated supersymmetry breaking. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1998, 62, 235-240.	0.5	1
69	Supersymmetric dark matter with a cosmological constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 443, 196-200.	1.5	12
70	Higgs boson interactions in supersymmetric theories with large $\tan\beta$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 445, 178-184.	1.5	31
71	Higgs bosons strongly coupled to the top quark. <i>Nuclear Physics B</i> , 1998, 523, 3-16.	0.9	19
72	Phenomenology of Massive Vectorlike Doublet Leptons. <i>Physical Review Letters</i> , 1998, 81, 34-37.	2.9	116

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73	Multi-GeV photons from electronâ€‘dark-matter scattering near active galactic nuclei. Physical Review D, 1998, 57, 1299-1302.	1.6	11
74	Trilepton Higgs boson signal at hadron colliders. Physical Review D, 1998, 57, 4446-4452.	1.6	24
75	THE IMPORTANCE OF TAU LEPTONS FOR SUPERSYMMETRY SEARCHES AT THE TEVATRON. Modern Physics Letters A, 1998, 13, 1923-1930.	0.5	10
76	Searching for supersymmetry in rare B decays. Physical Review D, 1997, 55, 5549-5560.	1.6	157
77	Constraints on supersymmetric soft phases from renormalization group relations. Physical Review D, 1997, 55, 1611-1622.	1.6	65
78	Electroweak symmetry-breaking Higgs boson in models with top-quark condensation. Physical Review D, 1997, 56, 1504-1510.	1.6	7
79	Sparticle spectroscopy and electroweak symmetry breaking with gauge-mediated supersymmetry breaking. Nuclear Physics B, 1997, 488, 39-91.	0.9	212
80	Two-photon decays of the lightest Higgs boson of supersymmetry at the CERN LHC. Physical Review D, 1996, 53, 213-220.	1.6	34
81	Extracting R_{bb} and R_{cc} without Flavor Tagging. Physical Review Letters, 1996, 76, 3259-3262.	2.9	3
82	Possible signals of constrained minimal supersymmetry at a high luminosity Fermilab Tevatron collider. Physical Review D, 1996, 53, 1168-1180.	1.6	46
83	Implications of low energy supersymmetry breaking at the Fermilab Tevatron. Physical Review D, 1996, 54, 3283-3288.	1.6	87
84	Higgsino Cold Dark Matter Motivated by Collider Data. Physical Review Letters, 1996, 76, 4458-4461.	2.9	24
85	Implications for Supersymmetry of the Reported Deviations from the Standard Model for R_{bb} and R_{cc} . Physical Review Letters, 1996, 76, 869-872.	2.9	44
86	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
87	Theory, phenomenology, and prospects for detection of supersymmetric dark matter. Physical Review D, 1995, 52, 4223-4239.	1.6	53
88	Predictions for constrained minimal supersymmetry with bottom-quarkâ€‘, mass unification. Physical Review D, 1994, 50, 3498-3507.	1.6	29
89	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
90	Study of constrained minimal supersymmetry. Physical Review D, 1994, 49, 6173-6210.	1.6	502

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91	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