Howard E Haber

List of Publications by Year
in descending order

123 papers	13,660 citations	38742 50 h-index	19749 117 g-index
130 all docs	130 docs citations	130 times ranked	7251 citing authors

#	Article	IF	Citations
1	A tale of three diagonalizations. International Journal of Modern Physics A, 2021, 36, 2130003.	1.5	4
2	A natural mechanism for approximate Higgs alignment in the 2HDM. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
3	Exceptional regions of the 2HDM parameter space. Physical Review D, 2021, 103, .	4.7	5
4	Basis-independent treatment of the complex 2HDM. Physical Review D, 2020, 101, .	4.7	17
5	Symmetries and mass degeneracies in the scalar sector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
6	Multi-Higgs doublet models: the Higgs-fermion couplings and their sum rules. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
7	Heavy Higgs boson decays in the alignment limit of the 2HDM. Journal of High Energy Physics, 2018, 2018, 1.	4.7	32
8	Supersymmetric Theory and Models. , 2018, , .		5
9	Multi-Higgs doublet models: physical parametrization, sum rules and unitarity bounds. Journal of High Energy Physics, 2017, 2017, 1.	4.7	37
10	The light and heavy Higgs interpretation of the MSSM. European Physical Journal C, 2017, 77, 1.	3.9	56
11	The impact of two-loop effects on the scenario of MSSM Higgs alignment without decoupling. European Physical Journal C, 2017, 77, 1.	3.9	19
12	High scale flavor alignment in two-Higgs doublet models and its phenomenology. Journal of High Energy Physics, 2017, 2017, 1.	4.7	40
13	Partially natural Two Higgs Doublet Models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
14	Alignment limit of the NMSSM Higgs sector. Physical Review D, 2016, 93, .	4.7	51
15	Scrutinizing the alignment limit in two-Higgs-doublet models. II.mH=125â€‰â€‰GeV. Physical Review D, 2016, 93, .	4.7	85
16	Perturbation theory in supersymmetric QED: Infrared divergences and gauge invariance. Physical Review D, 2016, 94, .	4.7	0
17	Preserving the validity of the two-Higgs-doublet model up to the Planck scale. Physical Review D, 2015, 92, .	4.7	27
18	Scrutinizing the alignment limit in two-Higgs-doublet models:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>m</mml:mi></mml:mrow><mml:mrow><mml:mi>h</mml:mi></mml:mrow> Physical Review D, 2015, 92, .	4.7	133

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19	New LHC benchmarks for the $$mathcal{CP}$$ CP -conserving two-Higgs-doublet model. European Physical Journal C, 2015, 75, 1.	3.9	74
20	Complementarity between nonstandard Higgs boson searches and precision Higgs boson measurements in the MSSM. Physical Review D, 2015, 91, .	4.7	62
21	Probing wrong-sign Yukawa couplings at the LHC and a future linear collider. Physical Review D, 2014, 89, .	4.7	75
22	Decoupling of the right-handed neutrino contribution to the Higgs mass in supersymmetric models. European Physical Journal C, 2013, 73, 1.	3.9	8
23	Mass-degenerate Higgs bosons at 125ÂGeV in the two-Higgs-doublet model. Physical Review D, 2013, 87, .	4.7	35
24	Group-theoretic condition for spontaneousCPviolation. Physical Review D, 2012, 86, .	4.7	25
25	THE GEOMETRIC PICTURE OF GENERALIZED-CP AND HIGGS-FAMILY TRANSFORMATIONS IN THE TWO-HIGGS-DOUBLET MODEL. International Journal of Modern Physics A, 2011, 26, 769-808.	1.5	50
26	Supersymmetric monojets at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
27	Erratum 2: supersymmetric monojets at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	4.7	6
28	Basis-independent methods for the two-Higgs-doublet model. III. The<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>-conserving limit, custodial symmetry, and the oblique parameters<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi></mml:math>.	4.7	116
29	Present status and future prospects for a Higgs boson discovery at the Tevatron and LHC. Journal of Physics: Conference Series, 2010, 259, 012017.	0.4	2
30	Two-component spinor techniques and Feynman rules for quantum field theory and supersymmetry. Physics Reports, 2010, 494, 1-196.	25.6	335
31	Basis invariant conditions for supersymmetry in the two-Higgs-doublet model. Physical Review D, 2010, 82, .	4.7	6
32	Low-Energy Supersymmetry at Future Colliders. Advanced Series on Directions in High Energy Physics, 2010, , 420-445.	0.7	0
33	Generalized<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>symmetries and special regions of parameter space in the two-Higgs-doublet model. Physical Review D, 2009, 79, .	4.7	60
34	Hard supersymmetry-breaking â€œwrong-Higgsâ€•couplings of the MSSM. Physical Review D, 2008, 77, .	4.7	23
35	Seesaw mechanism in the sneutrino sector and its consequences. Journal of High Energy Physics, 2007, 2007, 059-059.	4.7	42
36	Basis-independent methods for the two-Higgs-doublet model. II. The significance oftanï»¿Î². Physical Review D, 2006, 74, .	4.7	89

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37	Physics interplay of the LHC and the ILC. Physics Reports, 2006, 426, 47-358.	25.6	297
38	Quantum corrections to the MSSM vertex: Decoupling limit. Nuclear Physics, Section B, Proceedings Supplements, 2006, 157, 162-166.	0.4	6
39	Higgs Physics at the Linear Collider. Advanced Series on Directions in High Energy Physics, 2005, , 41-133.	0.7	0
40	Basis-independent methods for the two-Higgs-doublet model. Physical Review D, 2005, 72, .	4.7	228
41	Conditions forCPviolation in the general two-Higgs-doublet model. Physical Review D, 2005, 72, .	4.7	133
42	Higgs Boson theory and phenomenology. Progress in Particle and Nuclear Physics, 2003, 50, 63-152.	14.4	391
43	Decoupling and the radiatively-corrected MSSM higgs sector. Nuclear Physics, Section B, Proceedings Supplements, 2003, 116, 291-295.	0.4	4
44	The would-be Majoron inR-parity-violating supersymmetry. Physical Review D, 2003, 67, .	4.7	6
45	CP-conserving two-Higgs-doublet model: The approach to the decoupling limit. Physical Review D, 2003, 67, .	4.7	633
46	Distinguishing a minimal supersymmetric standard model Higgs boson from the SM Higgs boson at a linear collider. Physical Review D, 2002, 65, .	4.7	64
47	Low-energy supersymmetry and its phenomenology. Nuclear Physics, Section B, Proceedings Supplements, 2001, 101, 217-236.	0.4	20
48	Can the Higgs sector contribute significantly to the muon anomalous magnetic moment?. Journal of High Energy Physics, 2001, 2001, 006-006.	4.7	30
49	Supersymmetric QCD corrections to the minimal supersymmetric standard modelh0bbÂ¯vertex in the decoupling limit. Physical Review D, 2001, 63, .	4.7	61
50	Basis-independent analysis of the sneutrino sector inR-parity violating supersymmetry. Physical Review D, 2001, 63, .	4.7	32
51	Supersymmetry. European Physical Journal C, 2000, 15, 817-844.	3.9	4
52	Radiative corrections to theZbbÂ¯vertex and constraints on extended Higgs sectors. Physical Review D, 2000, 62, .	4.7	144
53	(S)neutrino properties inR-parity-violating supersymmetry:CP-conserving phenomena. Physical Review D, 1999, 59, .	4.7	91
54	The status of the minimal supersymmetric standard model and beyond. Nuclear Physics, Section B, Proceedings Supplements, 1998, 62, 469-484.	0.4	55

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55	PROBING THE MSSM HIGGS SECTOR AT AN e-e- COLLIDER. International Journal of Modern Physics A, 1998, 13, 2263-2276.	1.5	1
56	LOW-ENERGY SUPERSYMMETRY AT FUTURE COLLIDERS. Advanced Series on Directions in High Energy Physics, 1998, , 235-255.	0.7	1
57	Sneutrino Mixing Phenomena. Physical Review Letters, 1997, 78, 3438-3441.	7.8	157
58	Limits from LEP Data onCP-Violating Nonminimal Higgs Sectors. Physical Review Letters, 1997, 79, 982-985.	7.8	46
59	Approximating the radiatively corrected Higgs mass in the minimal supersymmetric model. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1997, 75, 539-554.	1.5	314
60	ELECTROWEAK SYMMETRY BREAKING AND PHYSICS BEYOND THE STANDARD MODEL. Advanced Series on Directions in High Energy Physics, 1997, , 1-22.	0.7	1
61	HIGGS BOSON MASSES AND COUPLINGS IN THE MINIMAL SUPERSYMMETRIC MODEL. Advanced Series on Directions in High Energy Physics, 1997, , 23-67.	0.7	1
62	QCD corrections to charged Higgs-mediated b â†' c Ï„ Î½ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 630-636.	4.1	50
63	and e+eâ^'â†'A0A0Z in two Higgs doublet models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 306, 327-334.	4.1	29
64	Constraints from global symmetries on radiative corrections to the Higgs sector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 302, 435-441.	4.1	46
65	Discovering supersymmetry with like-sign dileptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 315, 349-354.	4.1	92
66	Higgs-boson production at the photon-photon collider mode of a high-energye+eâ^'linear collider. Physical Review D, 1993, 48, 5109-5120.	4.7	84
67	Renormalization-group-improved Higgs sector of the minimal supersymmetric model. Physical Review D, 1993, 48, 4280-4309.	4.7	286
68	Higgs Bosons in the Minimal Supersymmetric Model: The Influence of Radiative Corrections. Advanced Series on Directions in High Energy Physics, 1993, , 79-128.	0.7	5
69	Quarks Bottom to Top: Heavy Flavours . A. J. Buras and M. Lindner, Eds. World Scientific, River Edge, NJ, 1992. xvi, 785 pp., illus. $103 or Â£73; paper, $58 or Â£41. Advanced Series on Directions in High Energy Physics, vol. 10.. Science, 1993, 261, 370-370.	12.6	0
70	HIGGS BOSON LOW-ENERGY THEOREMS AND THEIR APPLICATIONS. International Journal of Modern Physics A, 1992, 07, 107-120.	1.5	12
71	Searching for theCP-odd higgs boson of the minimal supersymmetric model at hadron supercolliders. Physical Review D, 1992, 46, 2907-2917.	4.7	47
72	Searching forCP-even Higgs bosons of the minimal supersymmetric model at hadron supercolliders. Physical Review D, 1992, 46, 2040-2051.	4.7	28

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73	Can the Higgs-boson mass be entirely due to radiative corrections?. Physical Review D, 1992, 46, 3086-3103.	4.7	36
74	The decayh0â†'A0A0in the minimal supersymmetric model. Physical Review D, 1992, 46, 3015-3024.	4.7	9
75	One-loop radiative corrections to the charged-Higgs-boson mass of the minimal supersymmetric model. Physical Review D, 1992, 45, 4246-4260.	4.7	57
76	HÂ±â†'WÂ±Î³andHÂ±â†'WÂ±Zin two-Higgs-doublet models: Large-fermion-mass limit. Physical Review D, 1991, 44, 191-201.	4.7	59
77	Can the mass of the lightest Higgs boson of the minimal supersymmetric model be larger thanmZ?. Physical Review Letters, 1991, 66, 1815-1818.	7.8	983
78	Heavy-fermion effects ine+eâ^'â†'ZHandZâ†'HÎ½Î½Â¯. Physical Review D, 1991, 44, 53-59.	4.7	10
79	Sum rules for Higgs bosons. Physical Review D, 1991, 43, 904-912.	4.7	64
80	Are light Higgs bosons allowed?. Physical Review D, 1990, 41, 2844-2855.	4.7	6
81	Multi-scalar models with a high-energy scale. Nuclear Physics B, 1990, 335, 363-394.	2.5	84
82	Non-Minimal Higgs Bosons: Theory and Phenomenology. , 1990, , 111-141.		0
83	Higgs bosons in a nonminimal supersymmetric model. Physical Review D, 1989, 39, 844-869.	4.7	554
84	Radiative neutralino decay. Nuclear Physics B, 1989, 323, 267-310.	2.5	110
85	Neutrino mixing, decays and supernova 1987A. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 200, 115-121.	4.1	114
86	Invisible decays of Higgs bosons in supersymmetric models. Physical Review D, 1988, 37, 719-728.	4.7	61
87	Higgs bosons in supersymmetric models (III). Decays into neutralinos and charginos. Nuclear Physics B, 1988, 307, 445-475.	2.5	86
88	Ultra-heavy particle production from heavy partons at hadron colliders. Nuclear Physics B, 1988, 306, 697-745.	2.5	144
89	Production mechanisms for nonminimal Higgs bosons at ane+eâ^'collider. Physical Review D, 1988, 38, 3444-3460.	4.7	27
90	Gluino decay patterns and signatures. Physical Review D, 1988, 37, 1892-1907.	4.7	59

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91	Two-body decays of neutralinos and charginos. Physical Review D, 1988, 37, 2515-2532.	4.7	99
92	Doubly Okubo-Zweig-Iizuka-ruleâ€“violating effects inJ/Ïˆdecays. Physical Review D, 1988, 38, 824-836.	4.7	47
93	Production and detection of the Higgs bosons of the simplestE6-based superstring-inspired model. Physical Review D, 1988, 38, 105-131.	4.7	50
94	Finding gluinos at hadron colliders. Physical Review Letters, 1988, 60, 401-404.	7.8	15
95	GLUINO DECAYS TO W AND Z BOSONS AT THE SSC. International Journal of Modern Physics A, 1987, 02, 1131-1144.	1.5	13
96	Higgs-boson mass bound inE6-based supersymmetric theories. Physical Review D, 1987, 35, 2206-2214.	4.7	75
97	Production of new charged leptons decaying into massive neutrinos. Physical Review D, 1987, 36, 2042-2046.	4.7	6
98	Hunting the Higgs in B-decays. Nuclear Physics B, 1987, 294, 301-320.	2.5	39
99	Axion mediated forces in the early universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 196, 33-38.	4.1	1
100	Higgs bosons in supersymmetric models (II). Implications for phenomenology. Nuclear Physics B, 1986, 278, 449-492.	2.5	257
101	Supersymmetry â€" lost or found?. Nuclear Physics B, 1986, 267, 625-678.	2.5	82
102	Higgs bosons in supersymmetric models (I). Nuclear Physics B, 1986, 272, 1-76.	2.5	1,002
103	Is Nature Supersymmetric?. Scientific American, 1986, 254, 52-60.	1.0	36
104	Signatures of heavy-neutrino production at the CERN collider. Physical Review D, 1986, 34, 2732-2738.	4.7	9
105	Gluinonium: The hydrogen atom of supersymmetry. Physica D: Nonlinear Phenomena, 1985, 15, 181-196.	2.8	19
106	The search for supersymmetry: Probing physics beyond the standard model. Physics Reports, 1985, 117, 75-263.	25.6	3,303
107	Model-independent analysis of hadronic decays ofJ/ÏˆandÎ·c(2980). Physical Review D, 1985, 32, 2961-2970.	4.7	72
108	Implications of a Systematic Study of the CERN Monojets for Supersymmetry. Physical Review Letters, 1985, 54, 1983-1986.	7.8	34

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109	Detection of supersymmetric particles inW-boson decay. Physical Review D, 1985, 31, 85-94.	4.7	9
110	Implications of a Higgs interpretation of the Î¶(8.3). Nuclear Physics B, 1985, 250, 716-728.	2.5	7
111	Production of scalar leptons inW- andZ-boson decay. Physical Review D, 1984, 29, 1381-1392.	4.7	16
112	Application of a softly broken supersymmetric model to the properties of the scalar neutrino. Physical Review D, 1984, 29, 1990-2004.	4.7	9
113	Some tests for whether a narrow neutral resonance can be a Higgs particle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 135, 196-202.	4.1	33
114	Signatures and possible evidence for supersymmetry at the CERN collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 142, 212-216.	4.1	31
115	Gluino decays and experimental signatures. Nuclear Physics B, 1984, 232, 333-348.	2.5	41
116	The decay of the scalar neutrino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 126, 64-70.	4.1	45
117	Discovering Supersymmetric Particles inW-Boson Decay ande+eâ^'Annihilation. Physical Review Letters, 1983, 51, 176-179.	7.8	41
118	Influence of the functional form of the density on hadron-nucleus scattering. Physical Review C, 1982, 25, 1959-1966.	2.9	5
119	Constraint of broken charge-conjugation invariance on the baryon asymmetry in grand unified theories. Physical Review D, 1982, 25, 1400-1416.	4.7	4
120	Baryon asymmetry and the scale of supersymmetry breaking. Physical Review D, 1982, 26, 1317-1326.	4.7	27
121	Finite-temperature symmetry breaking as Bose-Einstein condensation. Physical Review D, 1982, 25, 502-525.	4.7	222
122	On the relativistic Boseâ€“Einstein integrals. Journal of Mathematical Physics, 1982, 23, 1852-1858.	1.1	95
123	Thermodynamics of an Ultrarelativistic Ideal Bose Gas. Physical Review Letters, 1981, 46, 1497-1500.	7.8	189