

# Howard E Haber

## List of Publications by Year in descending order

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123  
papers

13,660  
citations

38660

50  
h-index

19690

117  
g-index

130  
all docs

130  
docs citations

130  
times ranked

7251  
citing authors

#	ARTICLE	IF	CITATIONS
1	The search for supersymmetry: Probing physics beyond the standard model. Physics Reports, 1985, 117, 75-263.	10.3	3,303
2	Higgs bosons in supersymmetric models (I). Nuclear Physics B, 1986, 272, 1-76.	0.9	1,002
3	Can the mass of the lightest Higgs boson of the minimal supersymmetric model be larger than $m_Z$ ? Physical Review Letters, 1991, 66, 1815-1818.	2.9	983
4	CP-conserving two-Higgs-doublet model: The approach to the decoupling limit. Physical Review D, 2003, 67, .	1.6	633
5	Higgs bosons in a nonminimal supersymmetric model. Physical Review D, 1989, 39, 844-869.	1.6	554
6	Higgs Boson theory and phenomenology. Progress in Particle and Nuclear Physics, 2003, 50, 63-152.	5.6	391
7	Two-component spinor techniques and Feynman rules for quantum field theory and supersymmetry. Physics Reports, 2010, 494, 1-196.	10.3	335
8	Approximating the radiatively corrected Higgs mass in the minimal supersymmetric model. Zeitschrift für Physik C-Particles and Fields, 1997, 75, 539-554.	1.5	314
9	Physics interplay of the LHC and the ILC. Physics Reports, 2006, 426, 47-358.	10.3	297
10	Renormalization-group-improved Higgs sector of the minimal supersymmetric model. Physical Review D, 1993, 48, 4280-4309.	1.6	286
11	Higgs bosons in supersymmetric models (II). Implications for phenomenology. Nuclear Physics B, 1986, 278, 449-492.	0.9	257
12	Basis-independent methods for the two-Higgs-doublet model. Physical Review D, 2005, 72, .	1.6	228
13	Finite-temperature symmetry breaking as Bose-Einstein condensation. Physical Review D, 1982, 25, 502-525.	1.6	222
14	Thermodynamics of an Ultrarelativistic Ideal Bose Gas. Physical Review Letters, 1981, 46, 1497-1500.	2.9	189
15	Sneutrino Mixing Phenomena. Physical Review Letters, 1997, 78, 3438-3441.	2.9	157
16	Ultra-heavy particle production from heavy partons at hadron colliders. Nuclear Physics B, 1988, 306, 697-745.	0.9	144
17	Radiative corrections to the $Zbb\bar{b}$ vertex and constraints on extended Higgs sectors. Physical Review D, 2000, 62, .	1.6	144
18	Conditions for CP violation in the general two-Higgs-doublet model. Physical Review D, 2005, 72, .	1.6	133

#	ARTICLE	IF	CITATIONS
19	Scrutinizing the alignment limit in two-Higgs-doublet models. $\int_{\mathcal{C}} \frac{d^3p}{(2\pi)^3} \frac{1}{E_p} \frac{1}{E_{p'}} \frac{1}{E_{p''}}$ Basis-independent methods for the two-Higgs-doublet model. III. The conserving limit, custodial symmetry, and the oblique parameters. $S, T, U$ Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987A, 1987A, 115-121.	1.6	133
20	Scrutinizing the alignment limit in two-Higgs-doublet models. II. $M_H = 125$ GeV. Physical Review D, 2016, 93, 16, 85.	1.6	116
21	Neutrino mixing, decays and supernova 1987A. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 200, 115-121.	1.5	114
22	Radiative neutralino decay. Nuclear Physics B, 1989, 323, 267-310.	0.9	110
23	Two-body decays of neutralinos and charginos. Physical Review D, 1988, 37, 2515-2532.	1.6	99
24	On the relativistic Bose-Einstein integrals. Journal of Mathematical Physics, 1982, 23, 1852-1858.	0.5	95
25	Discovering supersymmetry with like-sign dileptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 315, 349-354.	1.5	92
26	(S)neutrino properties in R-parity-violating supersymmetry: CP-conserving phenomena. Physical Review D, 1999, 59, .	1.6	91
27	Basis-independent methods for the two-Higgs-doublet model. II. The significance of $\tan\beta$ . Physical Review D, 2006, 74, .	1.6	89
28	Higgs bosons in supersymmetric models (III). Decays into neutralinos and charginos. Nuclear Physics B, 1988, 307, 445-475.	0.9	86
29	Scrutinizing the alignment limit in two-Higgs-doublet models. II. $M_H = 125$ GeV. Physical Review D, 2016, 93, 16, 85.	1.6	85
30	Multi-scalar models with a high-energy scale. Nuclear Physics B, 1990, 335, 363-394.	0.9	84
31	Higgs-boson production at the photon-photon collider mode of a high-energy linear collider. Physical Review D, 1993, 48, 5109-5120.	1.6	84
32	Supersymmetry "lost or found?". Nuclear Physics B, 1986, 267, 625-678.	0.9	82
33	Higgs-boson mass bound in E6-based supersymmetric theories. Physical Review D, 1987, 35, 2206-2214.	1.6	75
34	Probing wrong-sign Yukawa couplings at the LHC and a future linear collider. Physical Review D, 2014, 89, .	1.6	75
35	New LHC benchmarks for the CP-conserving two-Higgs-doublet model. European Physical Journal C, 2015, 75, 1.	1.4	74
36	Model-independent analysis of hadronic decays of $\tilde{f} \rightarrow f \tilde{c}$ (2980). Physical Review D, 1985, 32, 2961-2970.	1.6	72

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37	Sum rules for Higgs bosons. <i>Physical Review D</i> , 1991, 43, 904-912.	1.6	64
38	Distinguishing a minimal supersymmetric standard model Higgs boson from the SM Higgs boson at a linear collider. <i>Physical Review D</i> , 2002, 65, .	1.6	64
39	Complementarity between nonstandard Higgs boson searches and precision Higgs boson measurements in the MSSM. <i>Physical Review D</i> , 2015, 91, .	1.6	62
40	Invisible decays of Higgs bosons in supersymmetric models. <i>Physical Review D</i> , 1988, 37, 719-728.	1.6	61
41	Supersymmetric QCD corrections to the minimal supersymmetric standard model $h0bb\tilde{A}^-$ vertex in the decoupling limit. <i>Physical Review D</i> , 2001, 63, .	1.6	61
42	Generalized $C$ and $P$ symmetries and special regions of parameter space in the two-Higgs-doublet model. <i>Physical Review D</i> , 2009, 79, .	1.6	60
43	Gluino decay patterns and signatures. <i>Physical Review D</i> , 1988, 37, 1892-1907.	1.6	59
44	$H_{\pm}\tilde{A}^{\pm}\tilde{W}_{\pm}^{\pm}$ and $H_{\pm}\tilde{A}^{\pm}\tilde{W}_{\pm}^{\pm}Z$ in two-Higgs-doublet models: Large-fermion-mass limit. <i>Physical Review D</i> , 1991, 44, 191-201.	1.6	59
45	One-loop radiative corrections to the charged-Higgs-boson mass of the minimal supersymmetric model. <i>Physical Review D</i> , 1992, 45, 4246-4260.	1.6	57
46	The light and heavy Higgs interpretation of the MSSM. <i>European Physical Journal C</i> , 2017, 77, 1.	1.4	56
47	The status of the minimal supersymmetric standard model and beyond. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1998, 62, 469-484.	0.5	55
48	Alignment limit of the NMSSM Higgs sector. <i>Physical Review D</i> , 2016, 93, .	1.6	51
49	Production and detection of the Higgs bosons of the simplest E6-based superstring-inspired model. <i>Physical Review D</i> , 1988, 38, 105-131.	1.6	50
50	QCD corrections to charged Higgs-mediated $b \rightarrow c \bar{l}, \tilde{l}^{1/2}$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 357, 630-636.	1.5	50
51	THE GEOMETRIC PICTURE OF GENERALIZED-CP AND HIGGS-FAMILY TRANSFORMATIONS IN THE TWO-HIGGS-DOUBLET MODEL. <i>International Journal of Modern Physics A</i> , 2011, 26, 769-808.	0.5	50
52	Doubly Okubo-Zweig-Iizuka-rule-violating effects in $\tilde{l}^{\pm}$ decays. <i>Physical Review D</i> , 1988, 38, 824-836.	1.6	47
53	Searching for the CP-odd higgs boson of the minimal supersymmetric model at hadron supercolliders. <i>Physical Review D</i> , 1992, 46, 2907-2917.	1.6	47
54	Constraints from global symmetries on radiative corrections to the Higgs sector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 302, 435-441.	1.5	46

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55	Limits from LEP Data on CP-Violating Nonminimal Higgs Sectors. <i>Physical Review Letters</i> , 1997, 79, 982-985.	2.9	46
56	The decay of the scalar neutrino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 126, 64-70.	1.5	45
57	Seesaw mechanism in the sneutrino sector and its consequences. <i>Journal of High Energy Physics</i> , 2007, 2007, 059-059.	1.6	42
58	Discovering Supersymmetric Particles in $W$ -Boson Decay and $e^+e^-$ Annihilation. <i>Physical Review Letters</i> , 1983, 51, 176-179.	2.9	41
59	Glino decays and experimental signatures. <i>Nuclear Physics B</i> , 1984, 232, 333-348.	0.9	41
60	High scale flavor alignment in two-Higgs doublet models and its phenomenology. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	40
61	Hunting the Higgs in B-decays. <i>Nuclear Physics B</i> , 1987, 294, 301-320.	0.9	39
62	Multi-Higgs doublet models: physical parametrization, sum rules and unitarity bounds. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	37
63	Is Nature Supersymmetric?. <i>Scientific American</i> , 1986, 254, 52-60.	1.0	36
64	Can the Higgs-boson mass be entirely due to radiative corrections?. <i>Physical Review D</i> , 1992, 46, 3086-3103.	1.6	36
65	Mass-degenerate Higgs bosons at $125 \text{ GeV}$ in the two-Higgs-doublet model. <i>Physical Review D</i> , 2013, 87, .	1.6	35
66	Implications of a Systematic Study of the CERN Monojets for Supersymmetry. <i>Physical Review Letters</i> , 1985, 54, 1983-1986.	2.9	34
67	Some tests for whether a narrow neutral resonance can be a Higgs particle. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 135, 196-202.	1.5	33
68	Basis-independent analysis of the sneutrino sector in $R$ -parity violating supersymmetry. <i>Physical Review D</i> , 2001, 63, .	1.6	32
69	Heavy Higgs boson decays in the alignment limit of the 2HDM. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	32
70	Signatures and possible evidence for supersymmetry at the CERN collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 142, 212-216.	1.5	31
71	Can the Higgs sector contribute significantly to the muon anomalous magnetic moment?. <i>Journal of High Energy Physics</i> , 2001, 2001, 006-006.	1.6	30
72	$e^+e^- \rightarrow \tau^+\tau^-$ in two Higgs doublet models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 306, 327-334.	1.5	29

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73	Searching for CP-even Higgs bosons of the minimal supersymmetric model at hadron supercolliders. Physical Review D, 1992, 46, 2040-2051.	1.6	28
74	Baryon asymmetry and the scale of supersymmetry breaking. Physical Review D, 1982, 26, 1317-1326.	1.6	27
75	Production mechanisms for nonminimal Higgs bosons at an $e^+e^-$ collider. Physical Review D, 1988, 38, 3444-3460.	1.6	27
76	Preserving the validity of the two-Higgs-doublet model up to the Planck scale. Physical Review D, 2015, 92, .	1.6	27
77	Group-theoretic condition for spontaneous CP violation. Physical Review D, 2012, 86, .	1.6	25
78	Hard supersymmetry-breaking $\tilde{g}$ -Higgs $\tilde{g}$ -couplings of the MSSM. Physical Review D, 2008, 77, .	1.6	23
79	Low-energy supersymmetry and its phenomenology. Nuclear Physics, Section B, Proceedings Supplements, 2001, 101, 217-236.	0.5	20
80	Supersymmetric monojets at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	1.6	20
81	Gluinonium: The hydrogen atom of supersymmetry. Physica D: Nonlinear Phenomena, 1985, 15, 181-196.	1.3	19
82	The impact of two-loop effects on the scenario of MSSM Higgs alignment without decoupling. European Physical Journal C, 2017, 77, 1.	1.4	19
83	Symmetries and mass degeneracies in the scalar sector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	17
84	Basis-independent treatment of the complex 2HDM. Physical Review D, 2020, 101, .	1.6	17
85	Production of scalar leptons in W- and Z-boson decay. Physical Review D, 1984, 29, 1381-1392.	1.6	16
86	Finding gluinos at hadron colliders. Physical Review Letters, 1988, 60, 401-404.	2.9	15
87	GLUINO DECAYS TO W AND Z BOSONS AT THE SSC. International Journal of Modern Physics A, 1987, 02, 1131-1144.	0.5	13
88	HIGGS BOSON LOW-ENERGY THEOREMS AND THEIR APPLICATIONS. International Journal of Modern Physics A, 1992, 07, 107-120.	0.5	12
89	Multi-Higgs doublet models: the Higgs-fermion couplings and their sum rules. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
90	Heavy-fermion effects in $e^+e^- \rightarrow Z \text{ and } Z \rightarrow H^{1/2} \hat{1}^{1/2} \hat{A}^-$ . Physical Review D, 1991, 44, 53-59.	1.6	10

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91	Application of a softly broken supersymmetric model to the properties of the scalar neutrino. Physical Review D, 1984, 29, 1990-2004.	1.6	9
92	Detection of supersymmetric particles in W-boson decay. Physical Review D, 1985, 31, 85-94.	1.6	9
93	Signatures of heavy-neutrino production at the CERN collider. Physical Review D, 1986, 34, 2732-2738.	1.6	9
94	The decay $h \rightarrow A_0 A_0$ in the minimal supersymmetric model. Physical Review D, 1992, 46, 3015-3024.	1.6	9
95	Decoupling of the right-handed neutrino contribution to the Higgs mass in supersymmetric models. European Physical Journal C, 2013, 73, 1.	1.4	8
96	Partially natural Two Higgs Doublet Models. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
97	A natural mechanism for approximate Higgs alignment in the 2HDM. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
98	Implications of a Higgs interpretation of the $\hat{\Gamma}(8.3)$ . Nuclear Physics B, 1985, 250, 716-728.	0.9	7
99	Production of new charged leptons decaying into massive neutrinos. Physical Review D, 1987, 36, 2042-2046.	1.6	6
100	Are light Higgs bosons allowed?. Physical Review D, 1990, 41, 2844-2855.	1.6	6
101	The would-be Majoron in R-parity-violating supersymmetry. Physical Review D, 2003, 67, .	1.6	6
102	Quantum corrections to the MSSM vertex: Decoupling limit. Nuclear Physics, Section B, Proceedings Supplements, 2006, 157, 162-166.	0.5	6
103	Basis invariant conditions for supersymmetry in the two-Higgs-doublet model. Physical Review D, 2010, 82, .	1.6	6
104	Erratum 2: supersymmetric monojets at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	1.6	6
105	Influence of the functional form of the density on hadron-nucleus scattering. Physical Review C, 1982, 25, 1959-1966.	1.1	5
106	Exceptional regions of the 2HDM parameter space. Physical Review D, 2021, 103, .	1.6	5
107	Supersymmetric Theory and Models. , 2018, , .		5
108	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

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109	Constraint of broken charge-conjugation invariance on the baryon asymmetry in grand unified theories. <i>Physical Review D</i> , 1982, 25, 1400-1416.	1.6	4
110	Supersymmetry. <i>European Physical Journal C</i> , 2000, 15, 817-844.	1.4	4
111	Decoupling and the radiatively-corrected MSSM higgs sector. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 116, 291-295.	0.5	4
112	A tale of three diagonalizations. <i>International Journal of Modern Physics A</i> , 2021, 36, 2130003.	0.5	4
113	Present status and future prospects for a Higgs boson discovery at the Tevatron and LHC. <i>Journal of Physics: Conference Series</i> , 2010, 259, 012017.	0.3	2
114	Axion mediated forces in the early universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 196, 33-38.	1.5	1
115	PROBING THE MSSM HIGGS SECTOR AT AN $e$ - $e$ COLLIDER. <i>International Journal of Modern Physics A</i> , 1998, 13, 2263-2276.	0.5	1
116	LOW-ENERGY SUPERSYMMETRY AT FUTURE COLLIDERS. <i>Advanced Series on Directions in High Energy Physics</i> , 1998, , 235-255.	0.7	1
117	ELECTROWEAK SYMMETRY BREAKING AND PHYSICS BEYOND THE STANDARD MODEL. <i>Advanced Series on Directions in High Energy Physics</i> , 1997, , 1-22.	0.7	1
118	HIGGS BOSON MASSES AND COUPLINGS IN THE MINIMAL SUPERSYMMETRIC MODEL. <i>Advanced Series on Directions in High Energy Physics</i> , 1997, , 23-67.	0.7	1
119	Higgs Physics at the Linear Collider. <i>Advanced Series on Directions in High Energy Physics</i> , 2005, , 41-133.	0.7	0
120	Perturbation theory in supersymmetric QED: Infrared divergences and gauge invariance. <i>Physical Review D</i> , 2016, 94, .	1.6	0
121	Low-Energy Supersymmetry at Future Colliders. <i>Advanced Series on Directions in High Energy Physics</i> , 2010, , 420-445.	0.7	0
122	Non-Minimal Higgs Bosons: Theory and Phenomenology. , 1990, , 111-141.		0
123	Quarks Bottom to Top: <i>Heavy Flavours</i> . A. J. Buras and M. Lindner, Eds. World Scientific, River Edge, NJ, 1992. xvi, 785 pp., illus. \$103 or £73; paper, \$58 or £41. <i>Advanced Series on Directions in High Energy Physics</i> , vol. 10.. <i>Science</i> , 1993, 261, 370-370.	6.0	0