

# Giampiero Passarino

## List of Publications by Year in descending order

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80  
papers

2,397  
citations

185998

28  
h-index

205818

48  
g-index

80  
all docs

80  
docs citations

80  
times ranked

5295  
citing authors

#	ARTICLE	IF	CITATIONS
1	NLO electroweak corrections to Higgs boson production at hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 670, 12-17.	1.5	266
2	Inadequacy of zero-width approximation for a light Higgs boson signal. Journal of High Energy Physics, 2012, 2012, 1.	1.6	191
3	NNLO computational techniques: The cases and. Nuclear Physics B, 2009, 811, 182-273.	0.9	147
4	Stable calculations for unstable particles: restoring gauge invariance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 358, 339-346.	1.5	115
5	All-purpose numerical evaluation of one-loop multi-leg Feynman diagrams. Nuclear Physics B, 2003, 650, 162-228.	0.9	93
6	The fermion-loop scheme for finite-width effects in $e^+e^-$ annihilation into four fermions. Nuclear Physics B, 1997, 500, 255-298.	0.9	80
7	On a semi-analytical and realistic approach to $e^+e^- \rightarrow \gamma \gamma$ annihilation into fermion pairs and to Bhabha scattering within the minimal standard model at LEP energies. Nuclear Physics B, 1993, 401, 3-66.	0.9	72
8	NLO inspired effective Lagrangians for Higgs physics. Nuclear Physics B, 2013, 868, 416-458.	0.9	72
9	TOPAZO - a program for computing observables and for fitting cross sections and forward-backward asymmetries around the $Z^0$ peak. Computer Physics Communications, 1993, 76, 328-360.	3.0	70
10	NLO Higgs effective field theory and $\hat{\mu}$ -framework. Journal of High Energy Physics, 2015, 2015, 1.	1.6	70
11	An approach toward the numerical evaluation of multi-loop Feynman diagrams. Nuclear Physics B, 2001, 619, 257-312.	0.9	69
12	The Higgs-boson lineshape. Nuclear Physics B, 2012, 864, 530-579.	0.9	67
13	Higgs pseudo-observables, second Riemann sheet and all that. Nuclear Physics B, 2010, 834, 77-115.	0.9	65
14	Algebraic-numerical evaluation of Feynman diagrams: two-loop self-energies. Nuclear Physics B, 2002, 629, 97-187.	0.9	50
15	Two-loop renormalization in the Standard Model. Part III: Renormalization equations and their solutions. Nuclear Physics B, 2007, 777, 100-156.	0.9	45
16	Two-loop renormalization in the Standard Model. Part I: Prolegomena. Nuclear Physics B, 2007, 777, 1-34.	0.9	38
17	Higgs CAT. European Physical Journal C, 2014, 74, 1.	1.4	38
18	Low energy behaviour of standard model extensions. Journal of High Energy Physics, 2016, 2016, 1.	1.6	35

#	ARTICLE	IF	CITATIONS
19	Covariant polarization bases for particles and their use. Nuclear Physics B, 1984, 237, 249-273.	0.9	34
20	Two-loop vertices in quantum field theory: infrared convergent scalar configurations. Nuclear Physics B, 2004, 680, 199-270.	0.9	34
21	Higgs interference effects in $gg \rightarrow \hat{\tau}^+ \hat{\tau}^- ZZ$ and their uncertainty. Journal of High Energy Physics, 2012, 2012, 1.6		34
22	WW scattering and perturbative unitarity. Nuclear Physics B, 1990, 343, 31-59.	0.9	33
23	Higgs boson production and decay: Dalitz sector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 424-431.	1.5	33
24	Complete two-loop corrections to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\tau}^+ \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{\tau}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{\tau}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 655, 298-306.	1.5	32
25	Elliptic polylogarithms and basic hypergeometric functions. European Physical Journal C, 2017, 77, 1.	1.4	32
26	Two-loop threshold singularities, unstable particles and complex masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 62-68.	1.5	31
27	TOPAZO 2.0 - A program for computing de-convoluted and realistic observables around the Z0 peak. Computer Physics Communications, 1996, 93, 120-126.	3.0	29
28	Two-loop tensor integrals in quantum field theory. Nuclear Physics B, 2004, 703, 3-126.	0.9	29
29	The ratio R of hadronic and electronic Z widths and the strong coupling constants $\hat{\alpha}_s$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 331, 165-170.	1.5	28
30	Complete electroweak corrections to Higgs production in a Standard Model with four generations at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 195-199.	1.5	28
31	Two-loop vertices in quantum field theory: Infrared and collinear divergent configurations. Nuclear Physics B, 2006, 747, 113-189.	0.9	25
32	Through precision straits to next standard model heights. Reviews in Physics, 2016, 1, 13-28.	4.4	25
33	Unstable particles and non-conserved currents: a generalization of the Fermion-Loop scheme. Nuclear Physics B, 2000, 574, 451-494.	0.9	24
34	Two-loop renormalization in the Standard Model. Part II: Renormalization procedures and computational techniques. Nuclear Physics B, 2007, 777, 35-99.	0.9	23
35	How well can we guess theoretical uncertainties?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 266-272.	1.5	23
36	Minimal and non-minimal standard models: Universality of radiative corrections. Nuclear Physics B, 1991, 361, 351-391.	0.9	21

#	ARTICLE	IF	CITATIONS
37	Field reparametrization in SMEFT. European Physical Journal Plus, 2017, 132, 1.	1.2	19
38	Large masses, unitary and one-loop corrections. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 156, 231-235.	1.5	18
39	WTO $\hat{\epsilon}$ a deterministic approach to 4-fermion physics. Computer Physics Communications, 1996, 97, 261-303.	3.0	18
40	The interplay between the top quark mass and the structure of the higgs system. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 458-462.	1.5	17
41	MW without $\hat{\Gamma}$ r. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 228, 89-94.	1.5	16
42	Radiative corrections to the rho parameter versus the top quark mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 587-592.	1.5	16
43	Semi-analytical and Monte Carlo results for the production of four fermions in $e+e\hat{\gamma}$ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 178-184.	1.5	16
44	Single- W production and Fermion-Loop scheme: numerical results. Nuclear Physics B, 2000, 578, 3-26.	0.9	15
45	Higgs boson couplings: Measurements and theoretical interpretation. International Journal of Modern Physics A, 2017, 32, 1730003.	0.5	14
46	A critical analysis of radiative corrections to Bhabha scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 384-388.	1.5	13
47	Large-angle Bhabha scattering at LEP1. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 425, 199-207.	1.5	13
48	One-loop diagrams and vacuum stability in $\hat{\Gamma}\hat{\Gamma}4$ theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 165, 113-116.	1.5	11
49	The top-quark and the Higgs-boson masses from LEP, SLC and CDF data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 335, 484-489.	1.5	9
50	A critical analysis of radiative corrections to $e+e\hat{\gamma}\hat{\Gamma}\hat{\Gamma}4$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 286, 387-391.	1.5	8
51	Analytic final state corrections to $ee\hat{\Gamma}\hat{\Gamma}$ with realistic cuts. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 309, 436-442.	1.5	8
52	Standard Higgs boson searches at LEP 2. Nuclear Physics B, 1997, 488, 3-38.	0.9	8
53	Bounding the Higgs Width Using Effective Field Theory. , 2014, , .		8
54	To the standard model we steer. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 255, 127-133.	1.5	7

#	ARTICLE	IF	CITATIONS
55	Production of large pT single jets in association with $Z0 \hat{\alpha}^+ \hat{\alpha}^{1/2}$ decays in p collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 148, 373-377.	1.5	5
56	Large mass expansion in the Higgs system. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 161, 341-346.	1.5	5
57	Yang-Mills theories in the presence of classical plane-wave fields: Stability properties. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 176, 135-138.	1.5	5
58	The determination of $\hat{\alpha}^{\pm}$ (MZ) from the Z0 lineshape and asymmetry data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 213-220.	1.5	4
59	Standard model parameters from a global fit to LEP data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 303, 170-176.	1.5	4
60	Distributions in four-fermion processes for W-physics at LEP 2. Nuclear Physics B, 1996, 476, 3-26.	0.9	4
61	Anomalous Threshold as the Pivot of Feynman Amplitudes. Nuclear Physics, Section B, Proceedings Supplements, 2008, 183, 320-325.	0.5	4
62	Higgs Pseudo-Observables. Nuclear Physics, Section B, Proceedings Supplements, 2010, 205-206, 16-19.	0.5	4
63	Radiation zeros and gravity. Nuclear Physics B, 1984, 241, 48-60.	0.9	3
64	Unnaturalness in the higgs-Fermion sector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 195, 191-194.	1.5	3
65	A practical approach for exponentiation of QED corrections in arbitrary processes. Nuclear Physics B, 2001, 619, 313-358.	0.9	3
66	Two Loop QFT in the Making. Nuclear Physics, Section B, Proceedings Supplements, 2006, 160, 145-149.	0.5	3
67	Indirect measurement of vector boson scattering at high energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 183, 375-379.	1.5	2
68	Gauge fields and linear potentials. Nuclear Physics B, 1988, 304, 557-586.	0.9	2
69	The fourfold way. Nuclear Physics, Section B, Proceedings Supplements, 1998, 66, 87-90.	0.5	2
70	Structural Aspects of Numerical Loop Calculus. Nuclear Physics, Section B, Proceedings Supplements, 2004, 135, 265-269.	0.5	2
71	Distributions for $p \hat{\alpha}^+ \hat{\alpha}^3 + (Z0 \hat{\alpha}^+ \hat{\alpha}^{1/2})$ at large $ET(\hat{\alpha}^3)$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 148, 378-381.	1.5	1
72	Fermions in a time-periodic SU(2) background: The eigenfunctions. Nuclear Physics B, 1987, 284, 473-487.	0.9	1

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73	Electroweak interference and polarized particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 197, 409-412.	1.5	1
74	Polarized beams and final state heavy fermion polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 215, 154-158.	1.5	1
75	LEP data, cancellation of quadratic divergences and new physics. Zeitschrift für Physik C-Particles and Fields, 1994, 62, 229-233.	1.5	1
76	The Z line-shape in the standard model. Nuclear Physics, Section B, Proceedings Supplements, 1994, 37, 32-36.	0.5	1
77	Precision physics near LEP shutdown and evolutionary developments. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 121-130.	1.4	1
78	CERN radiative anomalous events: The angular distribution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 271-276.	1.5	0
79	THE LAST TEN YEARS OF RADIATIVE CORRECTIONS. , 1992, , .		0
80	Field Theory and the Standard Model. , 2003, , 851-868.		0