

Guido Montagna

List of Publications by Year in descending order

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60
papers

1,824
citations

304701

22
h-index

265191

42
g-index

63
all docs

63
docs citations

63
times ranked

5131
citing authors

#	ARTICLE	IF	CITATIONS
1	Quest for precision in hadronic cross sections at low energy: Monte Carlo tools vs. experimental data. European Physical Journal C, 2010, 66, 585-686.	3.9	270
2	Matching perturbative and parton shower corrections to Bhabha process at flavour factories. Nuclear Physics B, 2006, 758, 227-253.	2.5	124
3	Precision electroweak calculation of the production of a high transverse-momentum lepton pair at hadron colliders. Journal of High Energy Physics, 2007, 2007, 109-109.	4.7	124
4	Measuring the leading hadronic contribution to the muon g-2 via $e^+e^- \rightarrow e^+e^- \mu^+\mu^-$ scattering. European Physical Journal C, 2017, 77, 1.	3.9	115
5	Precision electroweak calculation of the charged current Drell-Yan process. Journal of High Energy Physics, 2006, 2006, 016-016.	4.7	87
6	On a semi-analytical and realistic approach to $e^+e^- \rightarrow f\bar{f}$ annihilation into fermion pairs and to Bhabha scattering within the minimal standard model at LEP energies. Nuclear Physics B, 1993, 401, 3-66.	2.5	72
7	TOPAZO - a program for computing observables and for fitting cross sections and forward-backward asymmetries around the Z0 peak. Computer Physics Communications, 1993, 76, 328-360.	7.5	70
8	Neutral-current Drell-Yan with combined QCD and electroweak corrections in the POWHEG BOX. European Physical Journal C, 2013, 73, 1.	3.9	65
9	TOPAZO 4.0 - A new version of a computer program for evaluation of deconvoluted and realistic observables at LEP 1 and LEP 2. Computer Physics Communications, 1999, 117, 278-289.	7.5	64
10	Combination of electroweak and QCD corrections to single W production at the Fermilab Tevatron and the CERN LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	51
11	Implementation of electroweak corrections in the POWHEG BOX: single W production. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
12	Photon pair production at flavour factories with per mille accuracy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 209-213.	4.1	46
13	Electroweak Sudakov Corrections to New Physics Searches at the LHC. Physical Review Letters, 2013, 111, 121801.	7.8	40
14	Multiple photon corrections to the neutral-current Drell-Yan process. Journal of High Energy Physics, 2005, 2005, 019-019.	4.7	35
15	QED Structure Functions: A Systematic Approach. Europhysics Letters, 1992, 17, 123-128.	2.0	34
16	A path integral way to option pricing. Physica A: Statistical Mechanics and Its Applications, 2002, 310, 450-466.	2.6	32
17	TOPAZO 2.0 - A program for computing de-convoluted and realistic observables around the Z0 peak. Computer Physics Communications, 1996, 93, 120-126.	7.5	29
18	Pricing financial derivatives with neural networks. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 160-165.	2.6	27

#	ARTICLE	IF	CITATIONS
19	Pricing exotic options in a path integral approach. Quantitative Finance, 2006, 6, 55-66.	1.7	25
20	Higgs boson decay into four leptons at NLOPS electroweak accuracy. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
21	Precision measurement of the W -boson mass: Theoretical contributions and uncertainties. Physical Review D, 2017, 96, .	4.7	24
22	On the QED radiator at order $\hat{\Gamma}^3$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 406, 243-248.	4.1	23
23	Quartic anomalous couplings at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 515, 197-205.	4.1	22
24	Muon-electron scattering at NLO. Journal of High Energy Physics, 2019, 2019, 1.	4.7	22
25	SABSPV – A Monte Carlo integrator for small-angle Bhabha scattering. Computer Physics Communications, 1995, 90, 301-310.	7.5	19
26	A non-Gaussian approach to risk measures. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 532-542.	2.6	18
27	$O(\hat{\Gamma}^2)$ next-to-leading photonic corrections to small-angle Bhabha scattering in the structure function formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 385, 348-356.	4.1	17
28	WWGENPV – A Monte Carlo event generator for four-fermion production in $e^+e^- \rightarrow W^+W^- \rightarrow 4f$. Computer Physics Communications, 1995, 90, 141-150.	7.5	16
29	Semi-analytical and Monte Carlo results for the production of four fermions in e^+e^- collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 178-184.	4.1	16
30	Pricing derivatives by path integral and neural networks. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 189-195.	2.6	16
31	$W\tilde{\Gamma}^3$ production in hadronic collisions using the POWHEG+MiNLO method. Journal of High Energy Physics, 2014, 2014, 1.	4.7	16
32	Towards muon-electron scattering at NNLO. Journal of High Energy Physics, 2020, 2020, 1.	4.7	16
33	Structure function formulation of $e^+e^- \rightarrow \tau^+\tau^-$ around the Z^0 resonance in a realistic setup. Physical Review D, 1993, 48, 1021-1034.	4.7	14
34	Six-fermion calculation of intermediate-mass Higgs boson production at future $\{e^+e^-\}$ colliders. European Physical Journal C, 1998, 2, 483-496.	3.9	14
35	NNLO leptonic and hadronic corrections to Bhabha scattering and luminosity monitoring at meson factories. Journal of High Energy Physics, 2011, 2011, 1.	4.7	14
36	A critical analysis of radiative corrections to Bhabha scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 384-388.	4.1	13

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37	A complete one-loop description of associated tW production at LHC and an estimate of possible genuine supersymmetric effects. <i>European Physical Journal C</i> , 2008, 53, 257-265.	3.9	13
38	Higgs decay into four charged leptons in the presence of dimension-six operators. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	13
39	Radiative Bhabha scattering at DAΦNE. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 318, 635-641.	4.1	11
40	NNLO virtual and real leptonic corrections to muon-electron scattering. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	11
41	Higgs Boson production in. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 348, 496-502.	4.1	10
42	The probability distribution of returns in the exponential Ornstein-Uhlenbeck model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P11013.	2.3	10
43	A generalized Fourier transform approach to risk measures. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P01005.	2.3	10
44	The top-quark and the Higgs-boson masses from LEP, SLC and CDF data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 335, 484-489.	4.1	9
45	NUNUGPV – A Monte Carlo event generator for events at LEP. <i>Computer Physics Communications</i> , 1996, 98, 206-214.	7.5	9
46	WWGENPV 2.0 – A Monte Carlo event generator for four-fermion production at e^+e^- colliders. <i>Computer Physics Communications</i> , 1997, 99, 355-370.	7.5	9
47	A critical analysis of radiative corrections to $e^+e^- \rightarrow \tau^+\tau^- \gamma$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 286, 387-391.	4.1	8
48	Collinear photons from final state leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 274, 473-476.	4.1	8
49	Analytic final state corrections to $ee \rightarrow \tau^+\tau^- \gamma$ with realistic cuts. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 309, 436-442.	4.1	8
50	ISR corrections to associated HZ production at future Higgs factories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 777, 294-297.	4.1	8
51	PHIPHI-A program for computing radiative Bhabha scattering cross sections at DAΦNE. <i>Computer Physics Communications</i> , 1993, 78, 155-171.	7.5	6
52	Standard model parameters from a global fit to LEP data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 303, 170-176.	4.1	4
53	Electroweak corrections to $e^+e^- \rightarrow \tau^+\tau^- \gamma$ as a luminosity process at FCC-ee. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134976.	4.1	3
54	High-precision Luminosity at e^+e^- Colliders: Theory Status and Challenges. <i>Acta Physica Polonica B</i> , 2015, 46, 2227.	0.8	3

#	ARTICLE	IF	CITATIONS
55	Hard photon next-to-leading corrections to two-fermion production in e^+e^- collisions above the Z^0 peak. Zeitschrift für Physik C-Particles and Fields, 1997, 76, 45-51.	1.5	2
56	On large-angle Bhabha scattering at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 460, 425-430.	4.1	1
57	Radiative corrections and Monte Carlo generators for physics at flavor factories. EPJ Web of Conferences, 2016, 118, 01022.	0.3	1
58	Muon-electron scattering at next-to-leading order accuracy. EPJ Web of Conferences, 2019, 212, 05002.	0.3	1
59	Fusing non-conservative kinetic market models and evolutionary computing. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122606.	2.6	1
60	Status and accuracy of the Monte Carlo generators for luminosity measurements. Chinese Physics C, 2010, 34, 883-888.	3.7	0