

# Gilberto Colangelo

## List of Publications by Year in descending order

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89  
papers

8,987  
citations

66234

42  
h-index

58464

82  
g-index

89  
all docs

89  
docs citations

89  
times ranked

6002  
citing authors

#	ARTICLE	IF	CITATIONS
1	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	10.3	790
2	$\pi\pi$ scattering. Nuclear Physics B, 2001, 603, 125-179.	0.9	653
3	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
4	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
5	Mass and Width of the Lowest Resonance in QCD. Physical Review Letters, 2006, 96, 132001.	2.9	419
6	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	384
7	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2014, 74, 2890.	1.4	375
8	Roy equation analysis of $\pi\pi$ scattering. Physics Reports, 2001, 353, 207-279.	10.3	307
9	Two-pion contribution to hadronic vacuum polarization. Journal of High Energy Physics, 2019, 2019, 1.	1.6	307
10	Remarks on higher-order hadronic corrections to the muon $a_\mu$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 90-91.	1.5	305
11	Dispersion relation for hadronic light-by-light scattering: two-pion contributions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	291
12	The mesonic chiral lagrangean of order $p^6$ . Journal of High Energy Physics, 1999, 1999, 020-020.	1.6	237
13	Longitudinal short-distance constraints for the hadronic light-by-light contribution to $(g\hat{a}^2)^{1/4}$ with large- $N_c$ Regge models. Journal of High Energy Physics, 2020, 2020, 1.	1.6	225
14	Elastic $\pi\pi$ scattering to two loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 374, 210-216.	1.5	213
15	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2011, 71, 1.	1.4	198
16	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	176
17	Towards a data-driven analysis of hadronic light-by-light scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 6-12.	1.5	159
18	Renormalization of Chiral Perturbation Theory to Order $p^6$ . Annals of Physics, 2000, 280, 100-139.	1.0	157

#	ARTICLE	IF	CITATIONS
19	Finite volume effects for meson masses and decay constants. Nuclear Physics B, 2005, 721, 136-174.	0.9	153
20	Dispersion relation for hadronic light-by-light scattering: theoretical foundations. Journal of High Energy Physics, 2015, 2015, 1.	1.6	152
21	Dispersive approach to hadronic light-by-light scattering. Journal of High Energy Physics, 2014, 2014, 1.	1.6	149
22	The pion mass in finite volume. European Physical Journal C, 2004, 33, 543-553.	1.4	137
23	Pion-pion scattering at low energy. Nuclear Physics B, 1997, 508, 263-310.	0.9	118
24	The $\pi\pi$ S-wave scattering lengths. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 261-268.	1.5	118
25	Kl4 decays beyond one loop. Nuclear Physics B, 1994, 427, 427-454.	0.9	117
26	Connections between $\hat{\mu}^2/\hat{\mu}$ and rare kaon decays in supersymmetry. Nuclear Physics B, 2000, 566, 3-32.	0.9	115
27	The Quark Condensate from Ke4Decays. Physical Review Letters, 2001, 86, 5008-5010.	2.9	111
28	Cusps in $\langle \bar{\psi}\psi \rangle$ . <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-citation/dtd"</small>	1.5	108
29	Supersymmetric models with minimal flavor violation and their running. European Physical Journal C, 2009, 59, 75-98.	1.4	104
30	Regge analysis of the $\pi\pi$ scattering amplitude. European Physical Journal C, 2012, 72, 1.	1.4	101
31	Rescattering Effects in the Hadronic-Light-by-Light Contribution to the Anomalous Magnetic Moment of the Muon. Physical Review Letters, 2017, 118, 232001.	2.9	94
32	Constraints on the two-pion contribution to hadronic vacuum polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136073.	1.5	93
33	Supersymmetric contributions to rare kaon decays. Journal of High Energy Physics, 1998, 1998, 009-009.	1.6	86
34	$\tilde{l}_R$ decays and chiral perturbation theory. Physical Review D, 1996, 54, 4403-4418.	1.6	67
35	A theoretical study of the c and b fragmentation function in $e^+e^-$ annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 167-171.	1.5	58
36	Scalar form factors of light mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 602, 218-225.	1.5	58

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37	The vector and scalar form factors of the pion to two loops. Journal of High Energy Physics, 1998, 1998, 014-014.	1.6	56
38	Isospin breaking in $K_{l4}$ decays. European Physical Journal C, 2009, 59, 777-793.	1.4	53
39	Hadronic contributions to $\hat{\Gamma}_{\pi^0}$ below one GeV. Nuclear Physics, Section B, Proceedings Supplements, 2004, 131, 185-191.	0.5	50
40	Short-distance constraints on hadronic light-by-light scattering in the anomalous magnetic moment of the muon. Physical Review D, 2020, 101, .	1.6	47
41	Dispersive analysis of $\eta \rightarrow 3\pi$ . European Physical Journal C, 2018, 78, 1.	1.4	46
42	Renormalization group equations for effective field theories. European Physical Journal C, 2003, 32, 427-442.	1.4	45
43	Double chiral logs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 437-446.	1.5	42
44	Quenched chiral perturbation theory to one loop. Nuclear Physics B, 1998, 520, 433-468.	0.9	39
45	An asymptotic formula for the pion decay constant in a large volume. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 258-264.	1.5	39
46	$\hat{\Gamma}_{\pi^0}$ : Study of the Dalitz Plot and Extraction of the Quark Mass Ratio $m_s/m_d$ . Physical Review Letters, 2017, 118, 022001.	2.9	37
47	Double chiral logs in the $\eta\eta'$ scattering amplitude. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 350, 85-91.	1.5	32
48	Short-distance constraints for the longitudinal component of the hadronic light-by-light amplitude: an update. European Physical Journal C, 2021, 81, 702.	1.4	31
49	On the precision of the theoretical predictions for $\eta\eta'$ scattering. Physical Review D, 2003, 68, .	1.6	30
50	Finite volume effects for the pion mass at two loops. Nuclear Physics B, 2006, 744, 14-33.	0.9	30
51	VIRTUAL PHOTON $\leftrightarrow$ PHOTON SCATTERING. International Journal of Modern Physics Conference Series, 2014, 35, 1460400.	0.7	29
52	A dispersive treatment of $K_{\ell 4}$ decays. European Physical Journal C, 2015, 75, 1.	1.4	29
53	Supersymmetric contributions to direct CP violation in $K \rightarrow \pi \pi^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 134-141.	1.5	28
54	Finite volume effects for nucleon and heavy meson masses. Physical Review D, 2010, 82, .	1.6	25

#	ARTICLE	IF	CITATIONS
55	Dispersion relations and soft pion theorems for $K\pi^+\pi^0$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 22-28.	1.5	24
56	$K\pi^+\pi^0$ at $B$ -factories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 287, 263-266.	1.5	20
57	Finite size effects on $\pi\pi$ in QCD from chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 254-256.	0.5	19
58	Finite volume effects in chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 120-126.	0.5	17
59	The pion and proton mass in finite volume. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 41-48.	0.5	17
60	A note on the dispersive treatment of $K\pi^+\pi^0$ with the kaon off-shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 29-32.	1.5	15
61	Twisted mass finite volume effects. Physical Review D, 2010, 82, .	1.6	13
62	THEORETICAL ASPECTS OF THE PION-PION INTERACTION. International Journal of Modern Physics A, 2006, 21, 954-957.	0.5	12
63	Chiral extrapolation of hadronic vacuum polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136852.	1.5	10
64	Chiral symmetry, $\pi\pi$ scattering and $a_1$ . Nuclear Physics, Section B, Proceedings Supplements, 2006, 162, 256-259.	0.5	9
65	On the Pais-Treiman method to measure $\pi\pi$ phase shifts in $Ke_4$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 543-548.	1.5	8
66	On the factorization of chiral logarithms in the pion form factors. Journal of High Energy Physics, 2012, 2012, 1.	1.6	8
67	Dispersive treatment of $K_S \rightarrow \pi^+\pi^-\pi^0$ and $K_S \rightarrow \pi^+\pi^-\pi^0$ and $K_S \rightarrow \pi^+\pi^-\pi^0$ . European Physical Journal C, 2016, 76, 1.	1.4	8
68	Angular distribution for $K\pi^+\pi^0$ decays at $DA\Phi NE$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 189-193.	1.5	6
69	Comprison of lattice and chiral perturbation theory calculations of pion scattering lengths. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 289-292.	1.5	6
70	Pseudoscalar mesons in a finite cubic volume with twisted boundary conditions. Journal of High Energy Physics, 2016, 2016, 1.	1.6	6
71	Pion loops in quenched quantum chromodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 455-460.	1.5	5
72	Chiral perturbation theory, dispersion relations and final state interactions in $K\pi^+\pi^0$ . Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 53-61.	0.5	5

#	ARTICLE	IF	CITATIONS
73	A Dispersive Treatment of $K_s^0 \rightarrow 4\pi$ Decays. EPJ Web of Conferences, 2012, 37, 05006.	0.1	5
74	Hadronic light-by-light contribution to $(g - 2)_\mu$ : a dispersive approach. EPJ Web of Conferences, 2018, 175, 01025.	0.1	5
75	$\pi^0$ contribution to the process $e^+e^- \rightarrow e^+e^- \pi^0$ . Physical Review D, 1994, 49, 1207-1216.	1.6	3
76	Structure functions in semihadronic Tau decays. Nuclear Physics, Section B, Proceedings Supplements, 1997, 55, 325-332.	0.5	3
77	QCD at low energy: $\pi\pi$ scattering. Nuclear Physics A, 2009, 827, 228c-233c.	0.6	3
78	Dispersion relation for hadronic light-by-light scattering. EPJ Web of Conferences, 2016, 118, 01030.	0.1	3
79	Theoretical progress on $\pi\pi$ scattering lengths and phases. , 2008, , .		3
80	A theory vade mecum for PSI experiments. SciPost Physics Proceedings, 2021, , .	0.2	2
81	Quenched chiral perturbation theory to one loop. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 299-301.	0.5	1
82	A dispersive treatment of decays. Journal of Physics: Conference Series, 2017, 800, 012026.	0.3	1
83	Dispersion relations for hadronic light-by-light scattering and the muon $g - 2$ . EPJ Web of Conferences, 2018, 166, 00014.	0.1	1
84	A new dispersive analysis of $\eta \rightarrow 3\pi$ . , 2010, , .		1
85	Dispersive Approach to Hadronic Light-by-Light. EPJ Web of Conferences, 2014, 80, 00056.	0.1	0
86	Dispersive approach to hadronic light-by-light scattering and the muon $g - 2$ . EPJ Web of Conferences, 2014, 81, 05026.	0.1	0
87	Dispersive analysis of $K_S \rightarrow \pi^0 \pi^0$ and $K_S \rightarrow \pi^+ \pi^-$ . Journal of Physics: Conference Series, 2017, 800, 012034.	0.3	0
88	Dispersion relations for hadronic light-by-light and the muon $g - 2$ . EPJ Web of Conferences, 2020, 234, 01013.	0.1	0
89	Data-driven approaches to the evaluation of hadronic contributions to the $(g - 2)_\mu$ . EPJ Web of Conferences, 2022, 258, 01004.	0.1	0