Gilberto Colangelo

List of Publications by Year
in descending order

89	8,987	66343	58581
papers	citations	42	82
		h-index	g-index

89	89	89	6002
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	25.6	790
2	Ï€Ï€ scattering. Nuclear Physics B, 2001, 603, 125-179.	2.5	653
3	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	3.9	486
4	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	3.9	439
5	Mass and Width of the Lowest Resonance in QCD. Physical Review Letters, 2006, 96, 132001.	7.8	419
6	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	384
7	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2014, 74, 2890.	3.9	375
8	Roy equation analysis of Ï€Ï€ scattering. Physics Reports, 2001, 353, 207-279.	25.6	307
9	Two-pion contribution to hadronic vacuum polarization. Journal of High Energy Physics, 2019, 2019, 1.	4.7	307
10	Remarks on higher-order hadronic corrections to the muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>g</mml:mi><mml:mo>â^'</mml:mo><mml:mn>2</mml:mn></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 90-91.	4.1	305
11	Dispersion relation for hadronic light-by-light scattering: two-pion contributions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	291
12	The mesonic chiral lagrangean of order p6. Journal of High Energy Physics, 1999, 1999, 020-020.	4.7	237
13	Longitudinal short-distance constraints for the hadronic light-by-light contribution to (g â^' 2)Î¼ with large-Nc Regge models. Journal of High Energy Physics, 2020, 2020, 1.	4.7	225
14	Elastic Ï€Ï€ scattering to two loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 374, 210-216.	4.1	213
15	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2011, 71, 1.	3.9	198
16	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	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.	4.1	159
18	Renormalization of Chiral Perturbation Theory to Order p6. Annals of Physics, 2000, 280, 100-139.	2.8	157

#	ARTICLE	IF	CITATIONS
19	Finite volume effects for meson masses and decay constants. Nuclear Physics B, 2005, 721, 136-174.	2.5	153
20	Dispersion relation for hadronic light-by-light scattering: theoretical foundations. Journal of High Energy Physics, 2015, 2015, 1.	4.7	152
21	Dispersive approach to hadronic light-by-light scattering. Journal of High Energy Physics, 2014, 2014, 1.	4.7	149
22	The pion mass in finite volume. European Physical Journal C, 2004, 33, 543-553.	3.9	137
23	Pion-pion scattering at low energy. Nuclear Physics B, 1997, 508, 263-310.	2.5	118
24	The ππ S-wave scattering lengths. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 261-268.	4.1	118
25	Kl4 decays beyond one loop. Nuclear Physics B, 1994, 427, 427-454.	2.5	117
26	Connections between Îµâ€²/Îµ and rare kaon decays in supersymmetry. Nuclear Physics B, 2000, 566, 3-32.	2.5	115
27	The Quark Condensate fromKe4Decays. Physical Review Letters, 2001, 86, 5008-5010.	7.8	111
28	Cusps in <mml:math altimg="si1.gif" overflow="scroll" 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/x	4.1	108
29	Supersymmetric models with minimal flavor violation andÂtheirÂrunning. European Physical Journal C, 2009, 59, 75-98.	3.9	104
30	Regge analysis of the ππ scattering amplitude. European Physical Journal C, 2012, 72, 1.	3.9	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.	7.8	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.	4.1	93
33	Supersymmetric contributions to rare kaon decays. Journal of High Energy Physics, 1998, 1998, 009-009.	4.7	86
34	τdecays and chiral perturbation theory. Physical Review D, 1996, 54, 4403-4418.	4.7	67
35	A theoretical study of the c and b fragmentation function in e+eâˆ' annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 167-171.	4.1	58
36	Scalar form factors of light mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 602, 218-225.	4.1	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.	4.7	56
38	Isospin breaking in K l4 decays. European Physical Journal C, 2009, 59, 777-793.	3.9	53
39	Hadronic contributions to $\hat{I}\pm\hat{I}\frac{1}{4}$ below one GeV. Nuclear Physics, Section B, Proceedings Supplements, 2004, 131, 185-191.	0.4	50
40	Short-distance constraints on hadronic light-by-light scattering in the anomalous magnetic moment of the muon. Physical Review D, 2020, 101, .	4.7	47
41	Dispersive analysis of $$\eta ightarrow 3 pi $$. European Physical Journal C, 2018, 78, 1.	3.9	46
42	Renormalization group equations for effective field theories. European Physical Journal C, 2003, 32, 427-442.	3.9	45
43	Double chiral logs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 437-446.	4.1	42
44	Quenched chiral perturbation theory to one loop. Nuclear Physics B, 1998, 520, 433-468.	2.5	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.	4.1	39
46	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î·</mml:mi><mml:mo stretchy="false">â†'</mml:mo><mml:mn>3</mml:mn><mml:mi>Ï€</mml:mi></mml:math>: Study of the Dalitz Plot and Extraction of the Quark Mass Ratio<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>. Physical Review Letters, 2017, 118, 022001.	7.8	37
47	Double chiral logs in the Ï€Ï€ scattering amplitude. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 350, 85-91.	4.1	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.	3.9	31
49	On the precision of the theoretical predictions forÏ€Ï€scattering. Physical Review D, 2003, 68, .	4.7	30
50	Finite volume effects for the pion mass at two loops. Nuclear Physics B, 2006, 744, 14-33.	2.5	30
51	VIRTUAL PHOTONâ€"PHOTON SCATTERING. International Journal of Modern Physics Conference Series, 2014, 35, 1460400.	0.7	29
52	A dispersive treatment of $$K_{ell 4}$$ K â„" 4 decays. European Physical Journal C, 2015, 75, 1.	3.9	29
53	Supersymmetric contributions to direct CP violation in Kâ†'Ï€Ï€Î³ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 134-141.	4.1	28
54	Finite volume effects for nucleon and heavy meson masses. Physical Review D, 2010, 82, .	4.7	25

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55	Dispersion relations and soft pion theorems for Kâ†ʼÏ€Ï€. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 22-28.	4.1	24
56	Ï†â†ʼÏ€+Ï€â˜Î³ at Î¦-factories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 287, 263-266.	4.1	20
57	Finite size effects onMÏ€ in QCD from chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 254-256.	0.4	19
58	Finite volume effects in chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 120-126.	0.4	17
59	The pion and proton mass in finite volume. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 41-48.	0.4	17
60	A note on the dispersive treatment of Kâ†ʼÏ€Ï€ with the kaon off-shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 29-32.	4.1	15
61	Twisted mass finite volume effects. Physical Review D, 2010, 82, .	4.7	13
62	THEORETICAL ASPECTS OF THE PION-PION INTERACTION. International Journal of Modern Physics A, 2006, 21, 954-957.	1.5	12
63	Chiral extrapolation of hadronic vacuum polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136852.	4.1	10
64	Chiral symmetry, Ï€Ï€ scattering and aÎ¼. Nuclear Physics, Section B, Proceedings Supplements, 2006, 162, 256-259.	0.4	9
65	On the Pais-Treiman method to measure Ï€Ï€ phase shifts in Ke4 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 543-548.	4.1	8
66	On the factorization of chiral logarithms in the pion form factors. Journal of High Energy Physics, 2012, 2012, 1.	4.7	8
67	Dispersive treatment of $$K_S\rightarrow \gamma \gamma $$ $K S â†’ Î³ Î³ and $$K_S\rightarrow \gamma \ell ^+\ell ^-$$ $K S â†’ Î³ â„" + â„" -. European Physical Journal C, 2016, 76, 1.	3.9	8
68	Angular distribution for Ï†â†ʼÏ€Ï€Î³ decays at DAÎ¦NE. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 189-193.	4.1	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.	4.1	6
70	Pseudoscalar mesons in a finite cubic volume with twisted boundary conditions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
71	Pion loops in quenched quantum chromodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 455-460.	4.1	5
72	Chiral perturbation theory, dispersion relations and final state interactions in K â†’ Ï€Ï€. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 53-61.	0.4	5

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73	A Dispersive Treatment ofKâ„"4Decays. EPJ Web of Conferences, 2012, 37, 05006.	0.3	5
74	Hadronic light-by-light contribution to (g - 2)Î¼: a dispersive approach. EPJ Web of Conferences, 2018, 175, 01025.	0.3	5
75	Î³Î³â†'Ï€0Ï€0contribution to the processe+eâˆˆâ†'e+eâˆ'Ï€0Ï€0. Physical Review D, 1994, 49, 1207-1216.	4.7	3
76	Structure functions in semihadronic Tau decays. Nuclear Physics, Section B, Proceedings Supplements, 1997, 55, 325-332.	0.4	3
77	QCD at low energy: Ï€Ï€ scattering. Nuclear Physics A, 2009, 827, 228c-233c.	1.5	3
78	Dispersion relation for hadronic light-by-light scattering. EPJ Web of Conferences, 2016, 118, 01030.	0.3	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, , .	0.4	2
81	Quenched chiral perturbation theory to one loop. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 299-301.	0.4	1
82	A dispersive treatment of decays. Journal of Physics: Conference Series, 2017, 800, 012026.	0.4	1
83	Dispersion relations for hadronic light-by-light scattering and the muon g â€" 2. EPJ Web of Conferences, 2018, 166, 00014.	0.3	1
84	A new dispersive analysis of $etaightarrow 3 pi$. , 2010, , .		1
85	Dispersive Approach to Hadronic Light-by-Light. EPJ Web of Conferences, 2014, 80, 00056.	0.3	0
86	Dispersive approach to hadronic light-by-light scattering and the muonÉ¡âˆ' 2. EPJ Web of Conferences, 2014, 81, 05026.	0.3	0
87	Dispersive analysis of KS â†' Î³Î³ and KS â†' Î³l+lâˆ'. Journal of Physics: Conference Series, 2017, 800, 012034.	0.4	0
88	Dispersion relations for hadronic light-by-light and the muon g âˆ' 2. EPJ Web of Conferences, 2020, 234, 01013.	0.3	0
89	Data-driven approaches to the evaluation of hadronic contributions to the (g âˆ' 2)Î¼. EPJ Web of Conferences, 2022, 258, 01004.	0.3	0