Gilberto Colangelo

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	Data-driven approaches to the evaluation of hadronic contributions to the (g â^' 2)Î¼. EPJ Web of Conferences, 2022, 258, 01004.	0.3	0
2	Chiral extrapolation of hadronic vacuum polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136852.	4.1	10
3	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
4	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
5	A theory vade mecum for PSI experiments. SciPost Physics Proceedings, 2021, , .	0.4	2
6	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	25.6	790
7	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
8	Dispersion relations for hadronic light-by-light and the muon g â^' 2. EPJ Web of Conferences, 2020, 234, 01013.	0.3	0
9	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	176
10	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	3.9	486
11	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
12	Two-pion contribution to hadronic vacuum polarization. Journal of High Energy Physics, 2019, 2019, 1.	4.7	307
13	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	384
14	Dispersive analysis of $$eta ightarrow 3 pi $$. European Physical Journal C, 2018, 78, 1.	3.9	46
15	Dispersion relations for hadronic light-by-light scattering and the muon g â€“ 2. EPJ Web of Conferences, 2018, 166, 00014.	0.3	1
16	Hadronic light-by-light contribution to (g - 2)Î¼: a dispersive approach. EPJ Web of Conferences, 2018, 175, 01025.	0.3	5
17	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	3.9	439
18	<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

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19	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
20	Dispersion relation for hadronic light-by-light scattering: two-pion contributions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	291
21	A dispersive treatment of decays. Journal of Physics: Conference Series, 2017, 800, 012026.	0.4	1
22	Dispersive analysis of KS â†' Î³Î³ and KS â†' Î³l+lâ^'. Journal of Physics: Conference Series, 2017, 800, 012034.	0.4	0
23	Dispersion relation for hadronic light-by-light scattering. EPJ Web of Conferences, 2016, 118, 01030.	0.3	3
24	Dispersive treatment of $$K_Sightarrow gamma gamma $$ K S â†' Î³ Î³ and $$K_Sightarrow gamma ell ^+ell ^-$$ K S â†' Î³ â„“ + â„“ -. European Physical Journal C, 2016, 76, 1.	3.9	8
25	Pseudoscalar mesons in a finite cubic volume with twisted boundary conditions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
26	Dispersion relation for hadronic light-by-light scattering: theoretical foundations. Journal of High Energy Physics, 2015, 2015, 1.	4.7	152
27	A dispersive treatment of $$K_{ell 4}$$ K â„“ 4 decays. European Physical Journal C, 2015, 75, 1.	3.9	29
28	Dispersive Approach to Hadronic Light-by-Light. EPJ Web of Conferences, 2014, 80, 00056.	0.3	0
29	Dispersive approach to hadronic light-by-light scattering and the muonÉ¡â^' 2. EPJ Web of Conferences, 2014, 81, 05026.	0.3	0
30	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2014, 74, 2890.	3.9	375
31	Dispersive approach to hadronic light-by-light scattering. Journal of High Energy Physics, 2014, 2014, 1.	4.7	149
32	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
33	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
34	VIRTUAL PHOTONâ€"PHOTON SCATTERING. International Journal of Modern Physics Conference Series, 2014, 35, 1460400.	0.7	29
35	On the factorization of chiral logarithms in the pion form factors. Journal of High Energy Physics, 2012, 2012, 1.	4.7	8
36	A Dispersive Treatment ofKâ„“4Decays. EPJ Web of Conferences, 2012, 37, 05006.	0.3	5

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37	Regge analysis of the Ï€Ï€ scattering amplitude. European Physical Journal C, 2012, 72, 1.	3.9	101
38	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2011, 71, 1.	3.9	198
39	Twisted mass finite volume effects. Physical Review D, 2010, 82, .	4.7	13
40	Finite volume effects for nucleon and heavy meson masses. Physical Review D, 2010, 82, .	4.7	25
41	A new dispersive analysis of $etaightarrow 3 pi$. , 2010, , .		1
42	QCD at low energy: Ï€Ï€ scattering. Nuclear Physics A, 2009, 827, 228c-233c.	1.5	3
43	Supersymmetric models with minimal flavor violation andÂtheirÂrunning. European Physical Journal C, 2009, 59, 75-98.	3.9	104
44	Isospin breaking in K l4 decays. European Physical Journal C, 2009, 59, 777-793.	3.9	53
45	Theoretical progress on pi-pi scattering lengths and phases. , 2008, , .		3
46	Mass and Width of the Lowest Resonance in QCD. Physical Review Letters, 2006, 96, 132001.	7.8	419
47	Finite volume effects for the pion mass at two loops. Nuclear Physics B, 2006, 744, 14-33.	2.5	30
48	Chiral symmetry, Ï€Ï€ scattering and aÎ¼. Nuclear Physics, Section B, Proceedings Supplements, 2006, 162, 256-259.	0.4	9
49	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
50	The pion and proton mass in finite volume. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 41-48.	0.4	17
51	THEORETICAL ASPECTS OF THE PION-PION INTERACTION. International Journal of Modern Physics A, 2006, 21, 954-957.	1.5	12
52	Finite volume effects in chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 120-126.	0.4	17
53	Finite volume effects for meson masses and decay constants. Nuclear Physics B, 2005, 721, 136-174.	2.5	153
54	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

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55	Scalar form factors of light mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 602, 218-225.	4.1	58
56	Hadronic contributions to Î±Î¼ below one GeV. Nuclear Physics, Section B, Proceedings Supplements, 2004, 131, 185-191.	0.4	50
57	The pion mass in finite volume. European Physical Journal C, 2004, 33, 543-553.	3.9	137
58	Renormalization group equations for effective field theories. European Physical Journal C, 2003, 32, 427-442.	3.9	45
59	Finite size effects onMÏ€ in QCD from chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 254-256.	0.4	19
60	On the precision of the theoretical predictions forÏ€Ï€scattering. Physical Review D, 2003, 68, .	4.7	30
61	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
62	Ï€Ï€ scattering. Nuclear Physics B, 2001, 603, 125-179.	2.5	653
63	Roy equation analysis of Ï€Ï€ scattering. Physics Reports, 2001, 353, 207-279.	25.6	307
64	Dispersion relations and soft pion theorems for Kâ†'Ï€Ï€. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 22-28.	4.1	24
65	A note on the dispersive treatment of Kâ†'Ï€Ï€ with the kaon off-shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 29-32.	4.1	15
66	The Quark Condensate fromKe4Decays. Physical Review Letters, 2001, 86, 5008-5010.	7.8	111
67	Renormalization of Chiral Perturbation Theory to Order p6. Annals of Physics, 2000, 280, 100-139.	2.8	157
68	The Ï€Ï€ S-wave scattering lengths. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 261-268.	4.1	118
69	Connections between Îµâ€²/Îµ and rare kaon decays in supersymmetry. Nuclear Physics B, 2000, 566, 3-32.	2.5	115
70	The mesonic chiral lagrangean of order p6. Journal of High Energy Physics, 1999, 1999, 020-020.	4.7	237
71	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
72	Quenched chiral perturbation theory to one loop. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 299-301.	0.4	1

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73	Double chiral logs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 437-446.	4.1	42
74	Quenched chiral perturbation theory to one loop. Nuclear Physics B, 1998, 520, 433-468.	2.5	39
75	The vector and scalar form factors of the pion to two loops. Journal of High Energy Physics, 1998, 1998, 014-014.	4.7	56
76	Supersymmetric contributions to rare kaon decays. Journal of High Energy Physics, 1998, 1998, 009-009.	4.7	86
77	Pion-pion scattering at low energy. Nuclear Physics B, 1997, 508, 263-310.	2.5	118
78	Pion loops in quenched quantum chromodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 455-460.	4.1	5
79	Structure functions in semihadronic Tau decays. Nuclear Physics, Section B, Proceedings Supplements, 1997, 55, 325-332.	0.4	3
80	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
81	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
82	Ï„decays and chiral perturbation theory. Physical Review D, 1996, 54, 4403-4418.	4.7	67
83	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
84	Î³Î³â†'Ï€0Ï€0contribution to the processe+eâ^'â†'e+eâ^'Ï€0Ï€0. Physical Review D, 1994, 49, 1207-1216.	4.7	3
85	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
86	Kl4 decays beyond one loop. Nuclear Physics B, 1994, 427, 427-454.	2.5	117
87	A theoretical study of the c and b fragmentation function in e+eâ^' annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 167-171.	4.1	58
88	Ï†â†'Ï€+Ï€â^'Î³ at Î¦-factories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 287, 263-266.	4.1	20
89	Angular distribution for Ï†â†'Ï€Ï€Î³ decays at DAÎ¦NE. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 189-193.	4.1	6