

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
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89
all docs

89
docs citations

89
times ranked

6002
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven approaches to the evaluation of hadronic contributions to the $(g \hat{\alpha}^2)^{1/4}$. EPJ Web of Conferences, 2022, 258, 01004.	0.1	0
2	Chiral extrapolation of hadronic vacuum polarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136852.	1.5	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.	1.5	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.	1.4	31
5	A theory vade mecum for PSI experiments. SciPost Physics Proceedings, 2021, , .	0.2	2
6	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	10.3	790
7	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
8	Dispersion relations for hadronic light-by-light and the muon $g \hat{\alpha}^2$. EPJ Web of Conferences, 2020, 234, 01013.	0.1	0
9	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	176
10	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
11	Longitudinal short-distance constraints for the hadronic light-by-light contribution to $(g \hat{\alpha}^2)^{1/4}$ with large- N_c Regge models. Journal of High Energy Physics, 2020, 2020, 1.	1.6	225
12	Two-pion contribution to hadronic vacuum polarization. Journal of High Energy Physics, 2019, 2019, 1.	1.6	307
13	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	384
14	Dispersive analysis of $\eta \rightarrow 3 \pi$. European Physical Journal C, 2018, 78, 1.	1.4	46
15	Dispersion relations for hadronic light-by-light scattering and the muon $g \hat{\alpha}^2$. EPJ Web of Conferences, 2018, 166, 00014.	0.1	1
16	Hadronic light-by-light contribution to $(g - 2)^{1/4}$: a dispersive approach. EPJ Web of Conferences, 2018, 175, 01025.	0.1	5
17	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
18	$\hat{\alpha}^3$: Study of the Dalitz Plot and Extraction of the Quark Mass Ratio Q . Physical Review Letters, 2017, 118, 022001.	2.9	37

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19	Rescattering Effects in the Hadronic-Light-by-Light Contribution to the Anomalous Magnetic Moment of the Muon. <i>Physical Review Letters</i> , 2017, 118, 232001.	2.9	94
20	Dispersion relation for hadronic light-by-light scattering: two-pion contributions. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	291
21	A dispersive treatment of decays. <i>Journal of Physics: Conference Series</i> , 2017, 800, 012026.	0.3	1
22	Dispersive analysis of $K_S \rightarrow \pi^0 \pi^0$ and $K_S \rightarrow \pi^0 \pi^+ \pi^-$. <i>Journal of Physics: Conference Series</i> , 2017, 800, 012034.	0.3	0
23	Dispersion relation for hadronic light-by-light scattering. <i>EPJ Web of Conferences</i> , 2016, 118, 01030.	0.1	3
24	Dispersive treatment of $K_S \rightarrow \gamma \gamma$ and $K_S \rightarrow \gamma \ell^+ \ell^-$. <i>European Physical Journal C</i> , 2016, 76, 1.	1.4	8
25	Pseudoscalar mesons in a finite cubic volume with twisted boundary conditions. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	6
26	Dispersion relation for hadronic light-by-light scattering: theoretical foundations. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	152
27	A dispersive treatment of $K_{\ell 4}$ decays. <i>European Physical Journal C</i> , 2015, 75, 1.	1.4	29
28	Dispersive Approach to Hadronic Light-by-Light. <i>EPJ Web of Conferences</i> , 2014, 80, 00056.	0.1	0
29	Dispersive approach to hadronic light-by-light scattering and the muon a_μ . <i>EPJ Web of Conferences</i> , 2014, 81, 05026.	0.1	0
30	Review of lattice results concerning low-energy particle physics. <i>European Physical Journal C</i> , 2014, 74, 2890.	1.4	375
31	Dispersive approach to hadronic light-by-light scattering. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	149
32	Towards a data-driven analysis of hadronic light-by-light scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 738, 6-12.	1.5	159
33	Remarks on higher-order hadronic corrections to the muon a_μ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 735, 90-91.	1.5	305
34	VIRTUAL PHOTON PHOTON SCATTERING. <i>International Journal of Modern Physics Conference Series</i> , 2014, 35, 1460400.	0.7	29
35	On the factorization of chiral logarithms in the pion form factors. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	8
36	A Dispersive Treatment of $K_{\ell 4}$ Decays. <i>EPJ Web of Conferences</i> , 2012, 37, 05006.	0.1	5

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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.	1.5	58
56	Hadronic contributions to $\hat{\Gamma}_{1/4}$ below one GeV. Nuclear Physics, Section B, Proceedings Supplements, 2004, 131, 185-191.	0.5	50
57	The pion mass in finite volume. European Physical Journal C, 2004, 33, 543-553.	1.4	137
58	Renormalization group equations for effective field theories. European Physical Journal C, 2003, 32, 427-442.	1.4	45
59	Finite size effects on $M_{\pi\pi}$ in QCD from chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 254-256.	0.5	19
60	On the precision of the theoretical predictions for $\pi\pi$ scattering. Physical Review D, 2003, 68, .	1.6	30
61	Chiral perturbation theory, dispersion relations and final state interactions in $K \rightarrow \pi\pi$. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 53-61.	0.5	5
62	$\pi\pi$ scattering. Nuclear Physics B, 2001, 603, 125-179.	0.9	653
63	Roy equation analysis of $\pi\pi$ scattering. Physics Reports, 2001, 353, 207-279.	10.3	307
64	Dispersion relations and soft pion theorems for $K \rightarrow \pi\pi$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 22-28.	1.5	24
65	A note on the dispersive treatment of $K \rightarrow \pi\pi$ with the kaon off-shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 29-32.	1.5	15
66	The Quark Condensate from $K \rightarrow 4\pi$ Decays. Physical Review Letters, 2001, 86, 5008-5010.	2.9	111
67	Renormalization of Chiral Perturbation Theory to Order p^6 . Annals of Physics, 2000, 280, 100-139.	1.0	157
68	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
69	Connections between $\hat{\Gamma}_{\mu^2/\mu}$ and rare kaon decays in supersymmetry. Nuclear Physics B, 2000, 566, 3-32.	0.9	115
70	The mesonic chiral lagrangean of order p^6 . Journal of High Energy Physics, 1999, 1999, 020-020.	1.6	237
71	Supersymmetric contributions to direct CP violation in $K \rightarrow \pi\pi$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 134-141.	1.5	28
72	Quenched chiral perturbation theory to one loop. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 299-301.	0.5	1

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73	Double chiral logs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 437-446.	1.5	42
74	Quenched chiral perturbation theory to one loop. Nuclear Physics B, 1998, 520, 433-468.	0.9	39
75	The vector and scalar form factors of the pion to two loops. Journal of High Energy Physics, 1998, 014-014.	1.6	56
76	Supersymmetric contributions to rare kaon decays. Journal of High Energy Physics, 1998, 1998, 009-009.	1.6	86
77	Pion-pion scattering at low energy. Nuclear Physics B, 1997, 508, 263-310.	0.9	118
78	Pion loops in quenched quantum chromodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 455-460.	1.5	5
79	Structure functions in semihadronic Tau decays. Nuclear Physics, Section B, Proceedings Supplements, 1997, 55, 325-332.	0.5	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.	1.5	6
81	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
82	η, η' decays and chiral perturbation theory. Physical Review D, 1996, 54, 4403-4418.	1.6	67
83	Double chiral logs in the $\pi\pi$ scattering amplitude. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 350, 85-91.	1.5	32
84	$\eta \rightarrow \pi^0 \pi^0$ contribution to the process $e^+e^- \rightarrow e^+e^- \eta \rightarrow e^+e^- \pi^0 \pi^0$. Physical Review D, 1994, 49, 1207-1216.	1.6	3
85	On the Pais-Treiman method to measure $\pi\pi$ phase shifts in K_{e4} decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 543-548.	1.5	8
86	K_{l4} decays beyond one loop. Nuclear Physics B, 1994, 427, 427-454.	0.9	117
87	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
88	$\eta \rightarrow \pi^+ \pi^- \pi^0$ at B -factories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 287, 263-266.	1.5	20
89	Angular distribution for $\eta \rightarrow \pi^+ \pi^- \pi^0$ decays at DAΦNE. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 189-193.	1.5	6