Johan Bijnens

List of Publications by Year in descending order

133 papers	6,192 citations	76326 40 h-index	69250 77 g-index
135 all docs	135 docs citations	135 times ranked	4680 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	Short-distance constraints for the HLbL contribution to the muon anomalous magnetic moment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134994.	4.1	246
3	The mesonic chiral lagrangean of order p6. Journal of High Energy Physics, 1999, 1999, 020-020.	4.7	237
4	Analysis of the hadronic light-by-light contributions to the muon g − 2. Nuclear Physics B, 1996, 474, 379-417.	2.5	179
5	Nambu-Jona-Lasinio-like models and the low-energy effective action of QCD. Nuclear Physics B, 1993, 390, 501-541.	2.5	175
6	QCD isospin breaking in meson masses, decay constants and quark mass ratios. Nuclear Physics B, 2001, 602, 87-108.	2.5	170
7	Two-pion production in photon-photon collisions. Nuclear Physics B, 1988, 296, 557-568.	2.5	161
8	Renormalization of Chiral Perturbation Theory to Order p6. Annals of Physics, 2000, 280, 100-139.	2.8	157
9	Comment on the pion pole part of the light-by-light contribution to the muon g−2. Nuclear Physics B, 2002, 626, 410-411.	2.5	155
10	Electromagnetic contribution to m_{μ}^2/m_{μ}. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 137, 245-250.	4.1	152
11	Mesonic Low-Energy Constants. Annual Review of Nuclear and Particle Science, 2014, 64, 149-174.	10.2	143
12	Chiral Lagrangians and Nambu-Jona-Lasinio like models. Physics Reports, 1996, 265, 370-446.	25.6	133
13	Two-point functions at two loops in three flavour chiral perturbation theory. Nuclear Physics B, 2000, 568, 319-363.	2.5	129
14	K_{l3} decays in chiral perturbation theory. Nuclear Physics B, 2003, 669, 341-362.	2.5	129
15	Hadronic Light-by-Light Contribution to the Muon g−2. Physical Review Letters, 1995, 75, 1447-1450.	7.8	128
16	Pion and kaon electromagnetic form factors. Journal of High Energy Physics, 2002, 2002, 046-046.	4.7	128
17	Light quark masses in QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 226-238.	4.1	110
18	Electromagnetic corrections for pions and kaons: masses and polarizabilities. Nuclear Physics B, 1997, 490, 239-271.	2.5	104

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19	Chiral perturbation theory beyond one loop. Progress in Particle and Nuclear Physics, 2007, 58, 521-586.	14.4	100
20	Validity of Chiral Perturbation Theory for$K0\hat{a}\check{}K\hat{a}\text{€•}0$Mixing. Physical Review Letters, 1984, 53, 2367-2370.	7.8	90
21	Pseudoscalar Decays into Two Photons in Chiral Perturbation Theory. Physical Review Letters, 1988, 61, 1453-1456.	7.8	86
22	Î·â†'3Ï€ at two loops in Chiral Perturbation Theory. Journal of High Energy Physics, 2007, 2007, 030-030.	4.7	86
23	THE HADRONIC LIGHT-BY-LIGHT CONTRIBUTION TO THE MUON ANOMALOUS MAGNETIC MOMENT: WHERE DO WE STAND?. Modern Physics Letters A, 2007, 22, 767-782.	1.2	85
24	Violations of Dashen's theorem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 306, 343-349.	4.1	81
25	CHIRAL PERTURBATION THEORY AND ANOMALOUS PROCESSES. International Journal of Modern Physics A, 1993, 08, 3045-3105.	1.5	79
26	Three-pseudoscalar photon interactions in chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 237, 488-494.	4.1	75
27	QCD Short-distance constraints and hadronic approximations. Journal of High Energy Physics, 2003, 2003, 055-055.	4.7	73
28	Matching the electroweak penguins Q7,Q8 and spectral correlators. Journal of High Energy Physics, 2001, 2001, 009-009.	4.7	67
29	Kâ„"4 decays and the low-energy expansion. Nuclear Physics B, 1990, 337, 635-651.	2.5	57
30	Î¼Kâ€²/Î¼K in the chiral limit. Journal of High Energy Physics, 2000, 2000, 035-035.	4.7	57
31	ÂKScattering in Three Flavour ChPT. Journal of High Energy Physics, 2004, 2004, 036-036.	4.7	57
32	The vector and scalar form factors of the pion to two loops. Journal of High Energy Physics, 1998, 1998, 014-014.	4.7	56
33	A new global fit of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mi>L</mml:mi><mml:mi>i</mml:mi><mml:mi>r</mml:mi></mml:msubsup></mml:math>at next-to-next-to-leading order in Chiral Perturbation Theory. Nuclear Physics B, 2012, 854, 631-665.	2.5	56
34	Hadronic matrix elements and theÏ€+-Ï€0mass difference. Physical Review Letters, 1989, 62, 1343-1346.	7.8	54
35	Hadronic Light-by-Light Contributions to the Muongâ'2. Physical Review Letters, 1995, 75, 3781-3781.	7.8	54
36	Technicolor and other QCD-like theories at next-to-next-to-leading order. Journal of High Energy Physics, 2009, 2009, 116-116.	4.7	52

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37	Obtaining K â†' Ï€Ï€ from off-shell K â†' Ï€ amplitudes. Nuclear Physics B, 1998, 521, 305-333.	2.5	51
38	The BK parameter in the 1/Nc expansion. Nuclear Physics B, 1995, 444, 523-562.	2.5	48
39	Kâ†'3Ï€ decays in chiral perturbation theory. Nuclear Physics B, 2003, 648, 317-344.	2.5	47
40	The Î"I = 1/2 rule in the chiral limit. Journal of High Energy Physics, 1999, 1999, 023-023.	4.7	46
41	Transition form factors inÏ€0,Î·, andÎ·â€²couplings toÎ³Î³*. Physical Review D, 1992, 45, 986-989.	4.7	40
42	The KL-KS mass difference. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 191-195.	4.1	36
43	Low-energy behaviour of two-point functions of quark currents. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1994, 62, 437-454.	1.5	36
44	ÂÂ Scattering in Three Flavour ChPT. Journal of High Energy Physics, 2004, 2004, 050-050.	4.7	35
45	Scalar form factors in SU(3) chiral perturbation theory. Journal of High Energy Physics, 2003, 2003, 061-061.	4.7	34
46	Constraining general two Higgs doublet models by the evolution of Yukawa couplings. Journal of High Energy Physics, 2012, 2012, 1.	4.7	33
47	The two-loop perturbative correction to the (g â^' 2)Î¼ HLbL at short distances. Journal of High Energy Physics, 2021, 2021, .	4.7	32
48	The anomalous sector of the strong interaction effective lagrangian. Nuclear Physics B, 1991, 367, 709-730.	2.5	30
49	Î³Î³â†'Ï€0Ï€0andKLâ†'Ï€0Î³Î³in the chiral quark model. Physical Review D, 1991, 44, 3555-3561.	4.7	30
50	Short-distance HLbL contributions to the muon anomalous magnetic moment beyond perturbation theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	30
51	Meson-meson scattering in QCD-like theories. Journal of High Energy Physics, 2011, 2011, 1.	4.7	29
52	Pion light-by-light contributions to the muon g â^' 2. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
53	Weak and electromagnetic properties of hyperons in a semiclassical approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 140, 421-423.	4.1	28
54	ON THE TENSOR FORMULATION OF EFFECTIVE VECTOR LAGRANGIANS AND DUALITY TRANSFORMATIONS. Modern Physics Letters A, 1996, 11, 1069-1080.	1.2	28

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55	QCD signatures of narrow graviton resonances in hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 341-348.	4.1	28
56	Leading logarithms in the massive nonlinear sigma model. Nuclear Physics B, 2010, 827, 237-255.	2.5	28
57	Scheme dependence of weak matrix elements in the 1/Nc expansion. Journal of High Energy Physics, 2000, 2000, 002-002.	4.7	26
58	Hard pion chiral perturbation theory for and formfactors. Nuclear Physics B, 2010, 840, 54-66.	2.5	26
59	The massive non-linear sigma model at high orders. Nuclear Physics B, 2011, 843, 55-83.	2.5	26
60	The Î³Î³ â†' Ï€0Ï€0 and Î· â†' Ï€0Î³Î³ transitions in the extended NJL model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 379, 209-218.	4.1	25
61	On the validity of chiral perturbation theory for the rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 226-230.	4.1	24
62	Two- and three-point functions in the extended NJL model. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1994, 64, 475-494.	1.5	24
63	The order p8 mesonic chiral Lagrangian. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
64	Three-flavor partially quenched chiral perturbation theory at NNLO for meson masses and decay constants. Physical Review D, 2006, 73, .	4.7	22
65	Leading logarithms in the anomalous sector of two-flavour QCD. Nuclear Physics B, 2012, 860, 245-266.	2.5	22
66	Anomalies, VMD and the Extended NJL model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 320, 130-134.	4.1	21
67	Decay constants of pseudoscalar mesons to two loops in three-flavor partially quenched chiral perturbation theory. Physical Review D, 2005, 71, .	4.7	21
68	The Ï€+âˆ'Ï€0 mass difference in the QCD effective action approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 483-492.	4.1	20
69	A parametrization for K+topi+pi-e+nu. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 1607-1622.	3.6	20
70	Vector formfactors in hard pion Chiral Perturbation Theory. Nuclear Physics B, 2011, 846, 145-166.	2.5	20
71	BK and explicit chiral symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 342, 331-338.	4.1	19
72	Electromagnetic corrections in partially quenched chiral perturbation theory. Physical Review D, 2007, 75, .	4.7	19

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73	Pseudoscalar meson mass to two loops in three-flavor partially quenched chiral perturbation theory. Physical Review D, 2004, 70, .	4.7	18
74	Isospin breaking in $Ko3pi$ decays II: radiative corrections. European Physical Journal C, 2005, 39, 347-357.	3.9	18
75	Vector two-point functions in finite volume using partially quenched chiral perturbation theory at two loops. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
76	Finite volume dependence of the quark–antiquark vacuum expectation value. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 636, 51-55.	4.1	17
77	Leading logarithms in N-flavour mesonic Chiral Perturbation Theory. Nuclear Physics B, 2013, 873, 137-164.	2.5	17
78	Isospin breaking in decays I: strong isospin breaking. Nuclear Physics B, 2004, 697, 319-342.	2.5	16
79	The hadronic light-by-light contribution to the muon anomalous magnetic moment and renormalization group for EFT. EPJ Web of Conferences, 2012, 37, 01007.	0.3	16
80	Masses and decay constants of pseudoscalar mesons to two loops in two-flavor partially quenched chiral perturbation theory. Physical Review D, 2005, 72, .	4.7	15
81	Two-loop sunset integrals at finite volume. Journal of High Energy Physics, 2014, 2014, 1.	4.7	15
82	Hadronic light-by-light contribution to a_μ: extended Nambu-Jona-Lasinio, chiral quark models and chiral Lagrangians. EPJ Web of Conferences, 2016, 118, 01002.	0.3	14
83	Hierarchical structure of fermion masses and mixings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 525-530.	4.1	13
84	Chiral perturbation theory and the evaluation of to nonleptonic decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 205, 103-110.	4.1	13
85	Neutral pseudoscalar meson decays $\pi^0 \to \gamma$ and $\eta \to \gamma\gamma$ in SU(3) limit. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 220-223.	0.4	13
86	Finite volume at two-loops in chiral perturbation theory. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
87	$K \to \pi$ decays in $SU(2)$ Chiral Perturbation Theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy P,	4.1	12
88	CHIRON: a package for ChPT numerical results at two loops. European Physical Journal C, 2015, 75, 1.	3.9	12
89	An analytic analysis of the pion decay constant in three-flavoured chiral perturbation theory. European Physical Journal C, 2017, 77, 497.	3.9	12
90	TheBKkaon parameter in the chiral limit. Journal of High Energy Physics, 2006, 2006, 048-048.	4.7	11

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91	Masses, decay constants and electromagnetic form-factors with twisted boundary conditions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	11
92	Connected, disconnected and strange quark contributions to HVP. Journal of High Energy Physics, 2016, 2016, 1.	4.7	11
93	Analytic representation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>F</mml:mi></mml:mrow><mml:mrow><mml:mi>K</mml:mi></mml:mrow> stretchy="false">/</mml:mo><mml:msub><mml:mrow><mml:mi>F</mml:mi></mml:mrow><mml:mrow><mml:mi>π</mml:mi></mml:mrow> in two loop chiral perturbation theory. Physical Review D, 2018, 97, .	4.7	11
94	Six-pion amplitude. Physical Review D, 2021, 104, .	4.7	11
95	Chiral limit prediction for Îμâ€²/Κ/ÎμΚ at NLO in 1/Nc. Nuclear Physics, Section B, Proceedings Supplements, 2001, 96, 354-363.	0.4	10
96	Chiral perturbation theory for neutron–antineutron oscillations. European Physical Journal C, 2017, 77, 867.	3.9	10
97	Higher-order tree-level amplitudes in the nonlinear sigma model. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
98	Analytic representations of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>m</mml:mi></mml:mrow><mml:mrow><mml:mi>K</mml:mi></mml:mml: , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>F</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:math> , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>m</mml:mi><mml:mi>Î·</mml:mi></mml:ms. Physical Review D, 2018,	4.7	9
99	Relations at order p 6 in chiral perturbation theory. European Physical Journal C, 2009, 64, 273.	3.9	8
100	An analytic approach to sunset diagrams in chiral perturbation theory: Theory and practice. European Physical Journal A, 2016, 52, 1.	2.5	8
101	The pion mass and decay constant at three loops in two-flavour chiral perturbation theory. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
102	Two-point functions and S-parameter in QCD-like theories. Journal of High Energy Physics, 2012, 2012, 1.	4.7	7
103	NNLO positivity bounds on chiral perturbation theory for a general number of flavours. Journal of High Energy Physics, 2022, 2022, 1.	4.7	7
104	Hadronic matrix elements for Kaons. Nuclear Physics, Section B, Proceedings Supplements, 2004, 133, 245-251.	0.4	5
105	Leading logarithms for the nucleon mass. Nuclear Physics B, 2015, 891, 700-719.	2.5	5
106	Twisted finite-volume corrections to K l3 decays with partially-quenched and rooted-staggered quarks. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
107	Weak long distance contributions to the neutron and proton electric dipole moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 207-214.	4.1	4
108	Matching the electroweak penguins Q7 and Q8. Nuclear Physics, Section B, Proceedings Supplements, 2003, 121, 195-198.	0.4	4

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109	Scalar kinetic mixing and the renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 238-243.	4.1	4
110	Chiral Dynamics in the Meson Sector at two Loops. AIP Conference Proceedings, 2004, , .	0.4	3
111	η mass and NNLO three-flavor partially quenched chiral perturbation theory. Physical Review D, 2006, 74, .	4.7	3
112	Finite volume for three-flavour Partially Quenched Chiral Perturbation Theory through NNLO in the meson sector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	3
113	On the Hadronic light-by-light contribution to the muon g – 2. EPJ Web of Conferences, 2018, 179, 01001.	0.3	3
114	CHIRAL LAGRANGIANS. International Journal of Modern Physics A, 2002, 17, 3154-3169.	1.5	2
115	QCD AND WEAK INTERACTIONS OF LIGHT QUARKS. , 2002, , 2156-2213.		2
116	Monojets from new heavy vector bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 156, 267-270.	4.1	1
117	Baryon weak decays. Nuclear Physics, Section B, Proceedings Supplements, 1989, 7, 90-105.	0.4	1
118	Corrections to the Weiss-Zumino term in chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 1991, 23, 295-298.	0.4	1
119	Progress in K → ππ decays. Nuclear Physics A, 2000, 663-664, 927c-930c.	1.5	1
120	Finite volume and partially quenched QCD-like effective field theories. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
121	Short-distance HLbL contributions to the muon g-2. Nuclear and Particle Physics Proceedings, 2021, 312-317, 180-184.	0.5	1
122	Γ_{2K}/Γ_K IN THE CHIRAL LIMIT USING LARGE N_C. , 2001, , .		1
123	Partially Quenched Chiral Perturbation Theory to NNLO. AIP Conference Proceedings, 2006, , .	0.4	0
124	Leading chiral logarithms for the nucleon mass. AIP Conference Proceedings, 2016, , .	0.4	0
125	Status of chiral meson physics. AIP Conference Proceedings, 2016, , .	0.4	0
126	ChPT loops for the lattice: pion mass and decay constant, HVP at finite volume and ππ-oscillations. EPJ Web of Conferences, 2018, 175, 06011.	0.3	0

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127	REPORT OF THE WORKING GROUP ON GOLDSTONE BOSONS. , 2001, , .		0
128	Kâ„"4 AT TWO-LOOPS AND CHPT PREDICTIONS FOR Ï€Ï€-SCATTERING. , 2001, , .		0
129	CHIRAL LAGRANGIANS. , 2002, , .		0
130	PENGUINS 2002: PENGUINS IN K â†' Ï€Ï€ DECAYS. , 2002, , .		0
131	THE BK KAON PARAMETER IN THE 1/NC EXPANSION. , 2005, , .		0
132	Two Loop Partially Quenched and Finite Volume Chiral Perturbation Theory Results. , 2005, , .		0
133	Short-distance constraints for HLbL in muon g-2. EPJ Web of Conferences, 2022, 258, 06005.	0.3	0