Oscar J Ãboli

List of Publications by Year
in descending order

141 papers	3,541 citations	136950 32 h-index	161849 54 g-index
143 all docs	143 docs citations	143 times ranked	5713 citing authors

#	Article	IF	Citations
1	Observing an invisible Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 495, 147-154.	4.1	218
2	Quantum fields out of thermal equilibrium. Physical Review D, 1988, 37, 3557-3581.	4.7	125
3	Quantitative tests of color evaporation: charmonium production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 390, 323-328.	4.1	115
4	ppâ†'jjeÂ±Î¼Â±Î½Î½andjjeÂ±Î¼â^'Î½Î½atO(Î±em6)andO(Î±em4Î±s2)for the study of the quartic electroweak gauge boson vertex at CERN LHC. Physical Review D, 2006, 74, .	4.7	111
5	Robust determination of the Higgs couplings: Power to the data. Physical Review D, 2013, 87, .	4.7	108
6	Disentangling a dynamical Higgs. Journal of High Energy Physics, 2014, 2014, 1.	4.7	108
7	The gauge-Higgs legacy of the LHC Run I. Journal of High Energy Physics, 2016, 2016, 1.	4.7	107
8	The Higgs legacy of the LHC Run I. Journal of High Energy Physics, 2015, 2015, 1.	4.7	100
9	Twin Higgs-boson production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 197, 269-272.	4.1	93
10	Constraining anomalous Higgs boson interactions. Physical Review D, 2012, 86, .	4.7	92
11	Novel scalar boson decays in SUSY with broken R-parity. Nuclear Physics B, 1995, 451, 3-15.	2.5	84
12	Determining Triple Gauge Boson Couplings from Higgs Data. Physical Review Letters, 2013, 111, 011801.	7.8	84
13	Colorless states in perturbative QCD: Charmonium and rapidity gaps. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 372, 127-132.	4.1	66
14	Threshold effects on heavy quark production inÎ³Î³interactions. Physical Review D, 1993, 47, 1889-1899.	4.7	61
15	Bosonic quartic couplings at CERN LHC. Physical Review D, 2004, 69, .	4.7	61
16	Collider aspects of flavor physics at high Q. European Physical Journal C, 2008, 57, 183-307.	3.9	59
17	Electroweak sector under scrutiny: A combined analysis of LHC and electroweak precision data. Physical Review D, 2019, 99, .	4.7	59
18	Quartic anomalous couplings in eÎ³ colliders. Nuclear Physics B, 1994, 411, 381-396.	2.5	56

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19	Anomalous quartic gauge boson couplings at hadron colliders. Physical Review D, 2001, 63, .	4.7	54
20	New Higgs signatures in supersymmetry with spontaneous broken R parity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 292, 329-336.	4.1	53
21	It is a gluino. Physical Review D, 2006, 74, .	4.7	52
22	Probing bilinear R-parity violating supergravity at the LHC. Journal of High Energy Physics, 2008, 2008, 048-048.	4.7	49
23	Classifying the bosonic quartic couplings. Physical Review D, 2016, 93, .	4.7	48
24	Composite vector leptoquarks ine+eâˆ’,Î³e, andÎ³Î³colliders. Physical Review D, 1993, 47, 837-843.	4.7	47
25	Unitarity constraints on dimension-six operators. Physical Review D, 2015, 91, .	4.7	40
26	Quartic anomalous couplings in Î³Î³ colliders. Physical Review D, 1995, 52, 15-21.	4.7	39
27	Composite leptoquarks in hadronic colliders. Physical Review D, 1988, 38, 3461-3466.	4.7	35
28	Supersymmetric Higgs boson pair production at hadron colliders. Physical Review D, 1999, 60, .	4.7	35
29	Higgs ultraviolet softening. Journal of High Energy Physics, 2014, 2014, 1.	4.7	35
30	Searching for invisibly decaying Higgs bosons at CERN LEP II. Physical Review D, 1997, 55, 1316-1325.	4.7	34
31	Unitarity constraints on dimension-six operators. II. Including fermionic operators. Physical Review D, 2017, 96, .	4.7	34
32	Bounds on scalar leptoquarks from Z-physics. Nuclear Physics B, 1995, 443, 20-36.	2.5	32
33	Diphoton signals for large extra dimensions at the Fermilab Tevatron and CERN LHC. Physical Review D, 2000, 61, .	4.7	30
34	Searching for leptoquarks in electron-photon collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 147-152.	4.1	29
35	Strongly interacting vector bosons at the CERN LHC: Quartic anomalous couplings. Physical Review D, 1998, 59, .	4.7	29
36	Signal and backgrounds for leptoquarks at the CERN LHC. Physical Review D, 1998, 57, 1715-1729.	4.7	29

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37	Strongly coupled fourth generation at the LHC. Physical Review D, 2009, 79, .	4.7	28
38	Model-independent Higgs boson mass limits at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 312, 240-246.	4.1	27
39	Indirect and monojet constraints on scalar leptoquarks. Physical Review D, 2019, 99, .	4.7	27
40	Interplay of the LHC and non-LHC dark matter searches in the effective field theory approach. Physical Review D, 2019, 99, .	4.7	27
41	Unitarity constraints on anomalous quartic couplings. Physical Review D, 2020, 101, .	4.7	27
42	Excited leptons at the CERN Large Hadron Collider. Physical Review D, 2002, 65, .	4.7	26
43	Renormalizability of the functional schrÃ¶dinger picture in Robertson-Walker space-time. Annals of Physics, 1989, 193, 102-141.	2.8	25
44	Neutrino masses at LHC: minimal lepton flavour violation in Type-III see-saw. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
45	Electroweak legacy of the LHC run II. Physical Review D, 2022, 105, .	4.7	25
46	Measuring theÎ³Î³coupling of the Higgs boson at linear colliders. Physical Review D, 1993, 48, 1430-1432.	4.7	24
47	Anomaly mediated supersymmetry breaking withoutÂR-parity. Nuclear Physics B, 2002, 623, 47-72.	2.5	24
48	Stop-lepton associated production at hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 558, 165-172.	4.1	24
49	Constraints on quartic vector-boson interactions from Z physics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 375, 233-239.	4.1	23
50	Bounds on effective interactions from the reaction e+eâ^'â†'Î³Î³ at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 271, 274-276.	4.1	22
51	Signatures of spontaneous breaking of R-parity in gluino cascade decays at LHC. Nuclear Physics B, 1997, 502, 19-36.	2.5	22
52	Bounds on Higgs and gauge-boson interactions from LEP2 data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 340-346.	4.1	22
53	LEP sensitivities to spontaneous R-parity violating signals. Nuclear Physics B, 1996, 482, 3-23.	2.5	21
54	Probing neutrino mass with displaced vertices at the Fermilab Tevatron. Physical Review D, 2005, 71, .	4.7	20

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55	Unravelling the sbottom spin at the CERN LHC. Physical Review D, 2007, 75, .	4.7	20
56	Signal for an Extra-Dimensional Model of Flavor at the Large Hadron Collider. Physical Review Letters, 2007, 98, 131601.	7.8	20
57	Searching for an invisibly decaying Higgs boson in e+eâˆ’, eÎ³, and Î³Î³ collisions. Nuclear Physics B, 1994, 421, 65-79.	2.5	19
58	Bose-Einstein correlations in W-pair decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 50-64.	4.1	19
59	Effect of fermionic operators on the gauge legacy of the LHC Run I. Physical Review D, 2018, 98, .	4.7	19
60	Inverse amplitude method for the perturbative electroweak symmetry breaking sector: The singlet Higgs portal as a study case. Physical Review D, 2016, 93, .	4.7	18
61	Multi-photon signatures at the Fermilab Tevatron. European Physical Journal C, 2006, 48, 147.	3.9	17
62	Signals for new spin-1 resonances in electroweak gauge boson pair production at the LHC. Physical Review D, 2009, 80, .	4.7	17
63	Ïµb constraints on self-couplings of vector bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 339, 119-126.	4.1	16
64	R-parity-violating signals for chargino production at LEP II. Nuclear Physics B, 1999, 546, 33-51.	2.5	16
65	Quantum-field-theoretic analysis of inflation dynamics in a (2+1)-dimensional universe. Physical Review D, 1991, 44, 2335-2355.	4.7	15
66	Identifying the Higgs boson in electron-photon collisions. Physical Review D, 1994, 49, 91-95.	4.7	15
67	Prompt charmonium production in Z dexays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 113-117.	4.1	15
68	Probing neutrino oscillations in supersymmetric models at the Large Hadron Collider. Physical Review D, 2010, 82, .	4.7	14
69	Heavy-lepton production via vector-boson fusion. Physical Review D, 1986, 34, 771-777.	4.7	13
70	Limits on associated production of visibly and invisibly decaying Higgs bosons from Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 446-456.	4.1	13
71	Excited leptonic states in polarizedeâˆ’Î³ ande+eâˆ’collisions. Physical Review D, 1996, 53, 1253-1263.	4.7	13
72	Probing neutralino properties in minimal supergravity with bilinear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml:math>-parity violation. Physical Review D, 2012, 86, .	4.7	13

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73	Abelian bosonization in curved space. Physical Review D, 1987, 36, 2408-2410.	4.7	12
74	Testing anomalous Higgs couplings in triple photon production at the Tevatron collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 435, 407-412.	4.1	12
75	Color evaporation description of inelastic photoproduction ofJ/Ĩ^at DESY HERA. Physical Review D, 2003, 67, .	4.7	12
76	Solitons as Newtonian particles. Physical Review B, 1983, 28, 689-696.	3.2	11
77	Percolation temperature and the â€˜â€˜instabilityâ€™â€™ of the effective potential. Physical Review D, 1985, 31, 1411-1417.	4.7	11
78	Signals for vector leptoquarks in hadronic collisions. Physical Review D, 1994, 50, 331-336.	4.7	11
79	Signal and backgrounds for the single production of scalar and vector leptoquarks at the CERN LHC. Physical Review D, 1998, 58, .	4.7	11
80	Inelastic photoproduction at HERA: a second charmonium crisis?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 451, 241-246.	4.1	11
81	Probing neutrino mass with multilepton production at the Tevatron in the simplestR-parity violation model. Journal of High Energy Physics, 2003, 2003, 071-071.	4.7	11
82	CERN LHC signals for a neutrino mass model with bilinear R-parity violating minimal anomaly mediated supersymmetry. Physical Review D, 2008, 77, .	4.7	11
83	Searching supersymmetry at the LHCb with displaced vertices. Physical Review D, 2009, 79, .	4.7	11
84	Scrutinizing the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>Z</mml:mi><mml:msup><mml:mi>W</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:m vertex at the Large Hadron Collider at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 20-25.	4.1	11
85	On the behaviour of the temperature dependent coupling constants. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 189-191.	4.1	10
86	Tests of anomalous quartic couplings at the Next Linear Collider. Physical Review D, 1998, 58, .	4.7	10
87	Determination of the spin of new resonances in electroweak gauge boson pair production at the LHC. Physical Review D, 2011, 83, .	4.7	10
88	Limits on anomalous top couplings from Z pole physics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 415, 75-82.	4.1	9
89	Robust CERN LHC Higgs boson search in weak boson fusion. Physical Review D, 2004, 69, .	4.7	9
90	Unitarity constraints on ALP interactions. Physical Review D, 2021, 104, .	4.7	9

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91	Deciphering the quark-gluon structure of the photon in eÎ³ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 115-120.	4.1	8
92	Z physics constraints on vector leptoquarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 396, 238-244.	4.1	8
93	Are two gluons the QCD Pomeron?. Physical Review D, 1998, 58, .	4.7	8
94	Probing anomalous quartic couplings ineÎ³ and Î³Î³ colliders. Physical Review D, 2001, 64, .	4.7	8
95	Deciphering the spin of new resonances in Higgsless models. Physical Review D, 2009, 79, .	4.7	8
96	Production of a new generation of leptons in hadronic collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 178, 77-80.	4.1	7
97	NonstandardÎ³Î³â†'l+lâ^'processes in relativistic heavy-ion collisions. Physical Review D, 1991, 44, 118-126.	4.7	7
98	Isosinglet neutral heavy lepton production in high energy e-Î³ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 280, 313-318.	4.1	7
99	Associated production of weak bosons and jets by multiple parton interactions. Physical Review D, 1998, 57, 1730-1734.	4.7	7
100	Direct signals for large extra dimensions in the production of fermion pairs at linear colliders. Physical Review D, 2001, 64, .	4.7	7
101	Present bounds on new neutral vector resonances from electroweak gauge boson pair production at the LHC. Physical Review D, 2012, 85, .	4.7	7
102	Signals of two universal extra dimensions at the LHC. Physical Review D, 2016, 94, .	4.7	7
103			

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109	Probing Higgs couplings in e+eâˆ’ â†’ Î³Î³Î³. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 93-99.	4.1	5
110	INDIRECT CONSTRAINTS ON THE TRIPLE GAUGE BOSON COUPLINGS FROM $m{Zo b{ar b}}$ PARTIAL WIDTH: AN UPDATE. Modern Physics Letters A, 2000, 15, 1-7.	1.2	5
111	Neutrinos in anomaly mediated supersymmetry breaking withR-parity violation. Physical Review D, 2005, 71, .	4.7	5
112	Strings at finite temperature. Physical Review D, 1985, 32, 3256-3260.	4.7	4
113	Production ofZ-Higgs boson pairs at photon linear colliders. Physical Review D, 1994, 50, 3546-3548.	4.7	4
114	Color evaporation induced rapidity gaps. Physical Review D, 1999, 61, .	4.7	4
115	Signal and backgrounds for leptoquarks at the CERN LHC. II. Vector leptoquarks. Physical Review D, 1999, 59, .	4.7	4
116	Single production of leptoquarks at the Fermilab Tevatron. Physical Review D, 2000, 61, .	4.7	4
117	Finding the Higgs boson through supersymmetry. Physical Review D, 2009, 80, .	4.7	4
118	LHC Run I bounds on minimal lepton flavour violation in Type-III see-saw: a case study. Journal of High Energy Physics, 2017, 2017, 1.	4.7	4
119	Some Problems with the Dirac Delta Function: Divergent Series in Physics. Brazilian Journal of Physics, 2021, 51, 1324-1332.	1.4	4
120	Electroweak Higgs effective field theory after LHC run 2. Physical Review D, 2022, 105, .	4.7	4
121	Superheavy-quarkonium decays with two Higgs doublets. Physical Review D, 1989, 39, 2668-2677.	4.7	3
122	QUANTUM EVOLUTION OF SCALAR FIELDS IN ROBERTSON-WALKER SPACE-TIME. International Journal of Modern Physics A, 1996, 11, 3957-3971.	1.5	3
123	Multilepton signatures for leptoquarks. Physical Review D, 1998, 59, .	4.7	3
124	Soft color enhancement of the production ofJ/Ïˆâ€™sby neutrinos. Physical Review D, 2001, 64, .	4.7	3
125	Testing color evaporation in photon-photon production ofJ/Ïˆat CERN LEP II. Physical Review D, 2003, 68, .	4.7	3
126	Probing trilinear gauge boson interactions via single electroweak gauge boson production at the CERN LHC. Physical Review D, 2004, 70, .	4.7	3

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127	Role of nonperturbative field configurations in phase transitions. Physical Review D, 1986, 34, 659-661.	4.7	2
128	Topological defects at finite temperature. Physical Review D, 1987, 36, 3086-3094.	4.7	2
129	Hunting a light U(1)B gauge boson coupled to baryon number in collider experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 447, 116-121.	4.1	2
130	Spins in Gluino Decays. AIP Conference Proceedings, 2007, , .	0.4	2
131	A rationale for long-lived quarks and leptons at the LHC: low energy flavour theory. Journal of High Energy Physics, 2012, 2012, 1.	4.7	2
132	Supersymmetric-charged-Higgs-boson production at the Superconducting Super Collider. Physical Review D, 1988, 37, 837-839.	4.7	1
133	Surface tension in field theory at finite temperature: Semiclassical fermionic plus bosonic contributions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1990, 46, 457-463.	1.5	1
134	Anomalous contributions to 95-195-195-1at high energies. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1992, 54, 95-100.	1.5	0
135	Anomalousg5Zcoupling at Î³Î³ colliders. Physical Review D, 1995, 52, 3836-3840.	4.7	0
136	Strong interaction effects in scalar top production. Nuclear Physics, Section B, Proceedings Supplements, 2000, 81, 210-213.	0.4	0
137	Impact of fermionic operators on the Higgs boson width measurement. Physical Review D, 2020, 102, .	4.7	0
138	Is there new Physics around the corner?. Brazilian Journal of Physics, 2000, 30, .	1.4	0
139	Probing neutrino mass with multilepton production at the Tevatron. , 2003, , .		0
140	Neutrinos in Anomaly Mediated Supersymmetry Breaking with R-parity Violation. , 2007, , .		0
141	Collider aspects of flavor physics at high Q. Advances in the Physics of Particles and Nuclei, 2009, , 171-295.	0.1	0