

Jose Feliciano Benitez

List of Publications by Year in descending order

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95
papers

4,891
citations

126907

33
h-index

91884

69
g-index

98
all docs

98
docs citations

98
times ranked

6736
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
2	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
3	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
4	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
5	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
6	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
7			

#	ARTICLE	IF	CITATIONS
19	Observation of Two Excited B_c States and Measurement of the B_c Stretching. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	7.8	62
20	Measurement of masses in the \overline{B}^0 system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2013, 73, 2494.	3.9	55
21	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	51
22	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	49
23	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	43
24	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019, 79, 313.	3.9	40
25	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 378.	3.9	40
26	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma, \gamma\gamma, \gamma\gamma$ final states in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	39
27	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 965.	3.9	39
28	Measurement of the top-quark mass in \overline{B}^0 events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	38
29	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2014, 74, 2758.	3.9	35
30	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 269.	3.9	35
31	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 488.	3.9	35
32	Measurement of the top quark mass with lepton+jets final states using pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 891.	3.9	34
33	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{l} , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	33
34	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 13.	3.9	33
35	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 3.	3.9	33
36	Measurement of normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	33

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37	Measurements of the $\sigma(\text{pp} \rightarrow Z\gamma Z)$ production cross sections in the $\sqrt{s} = 7$ and 8 TeV channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	3.9	32
38	Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 132003.	7.8	30
39	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
40	Measurements of $\sigma(\text{pp} \rightarrow \ell\ell Z)$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
41	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
42	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
43	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
44	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s} = 2.76$ and 8 TeV. Physical Review Letters, 2019, 122, 152001.	7.8	24
45	Measurements of $\sigma(\text{pp} \rightarrow Z\gamma Z)$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
46	Search for resonant $\sigma(\text{pp} \rightarrow Z\gamma Z)$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
47	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
48	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
49	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
50	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
51	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\ell\ell$, leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
52	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	3.9	19
53	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
54	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18

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55	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
56	Probing color coherence effects in pp collisions at $\sqrt{s}=7, \text{ext } \{\text{TeV}\}$ s = 7 TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
57	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
58	Measurements of the pp $\hat{\sigma}$ WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
59	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
60	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
61	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
62	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at s = 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
63	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
64	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
65	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
66	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
67	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
68	Search for supersymmetry in events with a photon, jets, $\mathcal{B}\overline{\mathcal{B}}$ -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
69	Search for nonresonant Higgs boson pair production in the $\mathcal{B}\overline{\mathcal{B}}\mathcal{B}\overline{\mathcal{B}}$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
70	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ s = 13 TeV. European Physical Journal C, 2019, 79, 1.	3.9	9
71	Search for a low-mass \tilde{I}, \tilde{I}^* resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
72	Search for a heavy vector resonance decaying to a $\mathcal{Z}\overline{\mathcal{Z}}\mathcal{A}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9

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73	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to \bar{l}, l , leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
74	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
75	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
76	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
77	Search for a $W\tilde{\chi}^0$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
78	Search for the pair production of light top squarks in the $e\tilde{\nu}_\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
79	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \sqrt{s} = 13$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
80	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
81	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	4.7	5
82	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
83	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
84	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13, \sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4
85	Search for $W \rightarrow 3\pi$ Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802.	7.8	4
86	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	4
87	Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using razor variables and boosted object identification in zero and one lepton final states. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
88	Search for excited leptons in $\tilde{\nu}_\tau, \tilde{\nu}_\tau$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
89	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
90	Measurements of angular distance and momentum ratio distributions in three-jet and $Z + 2j$ + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2

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91	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
92	Measurement of the inclusive $\overline{\text{t}}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
93	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
94	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
95	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}} \text{uppi}^+ \text{uppi}^-$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1