

# Harrison B Prosper

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4347998/publications.pdf>

Version: 2024-02-01

24  
papers

1,555  
citations

759233

12  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

4929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
2	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
3	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
4	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 13.6, 13.8, 13.9, 14.0, 14.1, 14.3, 14.6, 14.8, 15.1, 15.4, 15.9, 16.1, 16.3, 16.9, 17.1, 17.3, 17.6, 17.8, 18.3, 18.8, 19.1, 19.4, 19.8, 20.1, 20.3, 20.8, 21.3, 22.3, 23.3, 24.3, 27.9, 28.8, 31.3, 33.0, 35.0, 36.1, 39.0, 40.0, 42.7, 45.0, 46.3, 47.6, 50.0, 54.0, 56.3, 58.0, 63.0, 65.0, 67.4, 70.0, 73.0, 76.0, 79.1, 83.0, 87.0, 90.0, 93.0, 96.0, 100.0$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
5	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
6	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
7	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, 13.6, 13.8, 13.9, 14.0, 14.1, 14.3, 14.6, 14.8, 15.1, 15.4, 15.9, 16.1, 16.3, 16.9, 17.1, 17.3, 17.6, 17.8, 18.3, 18.8, 19.1, 19.4, 19.8, 20.1, 20.3, 20.8, 21.3, 22.3, 23.3, 24.3, 27.9, 28.8, 31.3, 33.0, 35.0, 36.1, 39.0, 40.0, 42.7, 45.0, 46.3, 47.6, 50.0, 54.0, 56.3, 58.0, 63.0, 65.0, 67.4, 70.0, 73.0, 76.0, 79.1, 83.0, 87.0, 90.0, 93.0, 96.0, 100.0$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
8	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
9	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
10	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \tilde{\nu}_\tau$ , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
11	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13, 13.6, 13.8, 13.9, 14.0, 14.1, 14.3, 14.6, 14.8, 15.1, 15.4, 15.9, 16.1, 16.3, 16.9, 17.1, 17.3, 17.6, 17.8, 18.3, 18.8, 19.1, 19.4, 19.8, 20.1, 20.3, 20.8, 21.3, 22.3, 23.3, 24.3, 27.9, 28.8, 31.3, 33.0, 35.0, 36.1, 39.0, 40.0, 42.7, 45.0, 46.3, 47.6, 50.0, 54.0, 56.3, 58.0, 63.0, 65.0, 67.4, 70.0, 73.0, 76.0, 79.1, 83.0, 87.0, 90.0, 93.0, 96.0, 100.0$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
22	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
23	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
24	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