

Nikos Varelas

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

4,732
citations

687335

13
h-index

580810

25
g-index

25
all docs

25
docs citations

25
times ranked

8638
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290. | 3.9 | 18 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 2 |
| 12 | 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 |
| 13 | 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 |
| 14 | Observation of $B^0 \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}} + \text{up}^+$ and $B^0_{\text{up}} \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}} + \text{up}^+$ decays. European Physical Journal C, 2022, 82, . | 3.9 | 1 |
| 15 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488. | 3.9 | 35 |
| 16 | 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 |
| 17 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 3.9 | 123 |
| 18 | Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, . | 6.6 | 3,177 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \sqrt{s} = 8 \sqrt{s}$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 29 |
| 21 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13 \sqrt{s}$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 101 |
| 22 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 3.9 | 499 |
| 23 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into \tilde{l}, \tilde{l}^* , leptons in pp collisions at $s = 8 \sqrt{s} = 8 \sqrt{s}$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 24 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7 \sqrt{s}$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 320 |
| 25 | Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7 \sqrt{s}$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 122 |