## Natasha Hehir

List of Publications by Year in descending order

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687363 642732 40 619 13 citations h-index papers

g-index 41 41 41 4000 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Performance of the ATLAS Level-1 topological trigger in RunÂ2. European Physical Journal C, 2022, 82, 1.	3.9	6
2	Measurement of the c-jet mistagging efficiency in $\frac{t}{s}$ events using pp collision data at $\frac{s}{a}$ collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
3	Search for exotic decays of the Higgs boson into b\$\$ overline{b} \$\$ and missing transverse momentum in pp collisions at $$$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
4	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2022, 82, 1.	3.9	8
5	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fba <sup>21</sup> of pp collision data at \$\$ sqrt{s} \$\$ = 13 TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
6	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
7	Measurement of the energy response of the ATLASÂcalorimeter to chargedÂpions from $W^{\rm off}$ pm }ightarrow au ^{pm }(ightarrow pi ^{pm }u _{au })u _{au }\$\$ events in RunÂ2 data. European Physical Journal C, 2022, 82, 1.	3.9	4
8	The ATLAS inner detector trigger performance in pp collisions at $13 {\rm \^A}$ TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
9	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $s=13$ ATeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	7
10	Measurement of the energy asymmetry in $f(x)$ production at $f(x)$ production at $f(x)$ with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	3.9	2
11	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\$$ sqrt $\{s\} = 7\$\$$ , 8 and 13ÂTeV. European Physical Journal C, 2022, 82, 1.	3.9	12
12	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbâ^'1 of $\$$ sqrt $\$$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	37
13	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $$$ sqrt{s} $$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
14	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\$$ sqrt{mathrm{s}} $\$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22
15	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton–proton collisions at \$\$sqrt{s}\$\$ = 13ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	18
16	Search for heavy resonances decaying into a pair of Z bosons in the $\$$ ell $^+$ ell $^-$ ell $^-$ ell $^-$ s and $\$$ ell $^+$ ell $^-$ u $\{ar\{u\}\}\}$ \$ final states using 139 $\$$ mathrm $\{fb\}^{-1}$ \$ of protona $\in$ "proton collisions at $\$$ sqrt $\{s\} = 13,\$$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
17	Search for new phenomena in final states with b-jets and missing transverse momentum in $\$\$$ sqrt{mathrm{s}} $\$\$ = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
18	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\$$ ell ell bb\$\$ and \$\$ell ell WW\$\$ final states in pp collisions at $\$$ sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26

#	Article	IF	Citations
19	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\$ sqrt{mathrm{s}} \$= 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
20	Measurements of W+W $\hat{a}$ '+ $\hat{a}$ %¥ 1 jet production cross-sections in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
21	Search for charged Higgs bosons decaying into a top quark and a bottom quark at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	46
22	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\$$ qrt $\{s\}=13$ ,ext $\{TeV\}$ \$. European Physical Journal C, 2021, 81, 1.	3.9	14
23	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\ddot{\text{I}}_{,-}$ -lepton in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
24	Search for supersymmetry in events with four or more charged leptons in 139 fba $^{\circ}$ 1 of \$\$ sqrt{s} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
25	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $\hat{WA}\pm$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
26	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
27	A search for the decays of stopped long-lived particles at $\$$ sqrt{mathrm{s}} $\$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
28	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $s=13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	82
29	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at \$\$sqrt{s}=13\$\$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
30	Measurements of the inclusive and differential production cross sections of a top-quark $\hat{a}$ antiquark pair in association with a Z $\hat{A}$ boson at $\frac{1}{s} = 13$ $\hat{A}$ CV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
31	Search for dark matter produced in association with a single top quark in \$\$\$qrt{s}=13\$\$ÂTeV \$\$pp\$\$ collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	9
32	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\$$ sqrt $\{s\}$ $\$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
33	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\$$ sqrt $\{s\} = 13$ hbox $\{ TeV \}$ protonâ $\in$ proton collision data. European Physical Journal C, 2021, 81, 1.	3.9	7
34	Measurement of the $t$ \$ overline{t} \$\$t\$\$ overline{t} \$\$ production cross section in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
35	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
36	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4

#	Article	IF	CITATIONS
37	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
38	Search for charginoâ $\in$ "neutralino pair production in final states with three leptons and missing transverse momentum in \$\$sqrt{s} = 13\$\$ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	28
39	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
40	Measurement of b-quark fragmentation properties in jets using the decay $B\hat{A}\pm\hat{a}\uparrow'J/\hat{C}\hat{A}\pm\hat{D}$ in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3