

# Mireia Crispin-Ortuzar

## List of Publications by Year in descending order

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71  
papers

5,684  
citations

94433

37  
h-index

91884

69  
g-index

74  
all docs

74  
docs citations

74  
times ranked

9771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continued Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s}=8$ TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803.	7.8	1,062
2	Performance of pile-up mitigation techniques for jets in $pp$ collisions at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 581.	3.9	298
3	Performance of $b$ -jet identification in the ATLAS experiment. <i>Journal of Instrumentation</i> , 2016, 11, P04008-P04008.	1.2	278
4	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 299.	3.9	238
5	Search for New Large Elliptic Azimuthal Anisotropies in $pp$ Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2016, 116, 172301.	7.8	228
6	Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC. <i>Nature Physics</i> , 2017, 13, 852-858.	16.7	218
7	TOWARD EARLY-WARNING DETECTION OF GRAVITATIONAL WAVES FROM COMPACT BINARY COALESCENCE. <i>Astrophysical Journal</i> , 2012, 748, 136.	4.5	200
8	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ decay channel at $\sqrt{s}=8$ TeV in $pp$ collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 45.	3.9	197
9	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2014, 113, 171801.	7.8	185
10	Search for Scalar Diphoton Resonances in the Mass Range $650 < m < 1600$ GeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2014, 113, 171801.	7.8	168
11	Measurement of the transverse momentum and $\phi_{\perp}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 581.	3.9	154
12	Evidence for Electroweak Production of $W^{\pm}Z$ in $pp$ Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2014, 113, 171801.	7.8	123
13	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in $pp$ collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 538.	3.9	115
14	Technical Note: Extension of CERR for computational radiomics: A comprehensive MATLAB platform for reproducible radiomics research. <i>Medical Physics</i> , 2018, 45, 3713-3720.	3.0	114
15	Searches for scalar leptoquarks in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 5.	3.9	109
16	Search for new phenomena in events with at least three photons collected in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 210.	3.9	95
17	Measurement of the prompt $J/\psi$ pair production cross-section in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 76.	3.9	81
18	Light-quark and gluon jet discrimination in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3023.	3.9	77

#	ARTICLE	IF	CITATIONS
19	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	4.7	71
20	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 303.	3.9	70
21	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	67
22	Triage-driven diagnosis of Barrett's esophagus for early detection of esophageal adenocarcinoma using deep learning. Nature Medicine, 2021, 27, 833-841.	30.7	65
23	Observation and measurements of the production of prompt and non-prompt $J/\psi$ mesons in association with a Z boson in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	3.9	64
24	Measurement of the differential cross-sections of prompt and non-prompt production of $J/\psi$ and $\psi(2S)$ ( $2S$ ) in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	3.9	63
25	Measurement of the differential cross-sections of prompt and non-prompt production of $J/\psi$ and $\psi(2S)$ ( $2S$ ) in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.		
26	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=8$ TeV proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.	3.9	61
27	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton lead collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	3.9	60
28	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	55
29	Predicting hypoxia status using a combination of contrast-enhanced computed tomography and [18F]-Fluorodeoxyglucose positron emission tomography radiomics features. Radiotherapy and Oncology, 2018, 127, 36-42.	0.6	55
30	Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 11.	3.9	54
31	Search for minimal supersymmetric standard model Higgs Bosons $H/A$ and for a $Z^{\prime}$ Z boson in the $\tau\tau$ , $\tau\mu$ , $\tau e$ , final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	3.9	51
32	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379.	3.9	51
33	Search for direct pair production of a chargino and a neutralino decaying to $J/\psi$ and $\psi(2S)$ ( $2S$ ) in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 208.		

#	ARTICLE	IF	CITATIONS
37	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8\text{ TeV}$ $s = 8 \text{ Te}$ . European Physical Journal C, 2016, 76, 87.	3.9	39
38	Search for heavy long-lived multi-charged particles in pp collisions at $\sqrt{s}=8\text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2015, 75, 362.	3.9	36
39	Search for $W' \rightarrow tb$ decays in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 165.	3.9	35
40	Search for Scalar Charm Quark Pair Production in Collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2015, 114, 161801.	7.8	35
41	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 565.	3.9	31
42	Measurement of the Production Cross Section in Collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2015, 114, 221802.	7.8	31
43	Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 79.	3.9	30
44	Charged-particle distributions in pp interactions at $\sqrt{s}=8\text{ TeV}$ measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.	3.9	30
45	Integrative radiogenomics for virtual biopsy and treatment monitoring in ovarian cancer. Insights Into Imaging, 2020, 11, 94.	3.4	30
46	Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2015, 114, 221802.	7.8	27
47	Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s}=8\text{ TeV}$ using the ATLAS experiment. European Physical Journal C, 2015, 75, 407.	3.9	27
48	Tissue-specific and interpretable sub-segmentation of whole tumour burden on CT images by unsupervised fuzzy clustering. Computers in Biology and Medicine, 2020, 120, 103751.	7.0	27
49	Operation and performance of the ATLAS semiconductor tracker. Journal of Instrumentation, 2014, 9, P08009-P08009.	1.2	25
50	Search for triboson $W^{\pm}W^{\pm}W^{\mp}$ production in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2017, 77, 141.	3.9	25
51	Search for supersymmetry in a final state containing two photons and missing transverse momentum in pp collisions at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2016, 76, 517.	3.9	24
52	Integrated Multi-Tumor Radio-Genomic Marker of Outcomes in Patients with High Serous Ovarian Carcinoma. Cancers, 2020, 12, 3403.	3.7	24
53	Determination of the Ratio of Quark Fragmentation Fractions in Collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2015, 114, 221802.	7.8	23
54	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s}=13\text{ TeV}$ proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 334-355.	4.1	21

#	ARTICLE	IF	CITATIONS
55	Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector. Nuclear Physics A, 2018, 978, 65-106.	1.5	21
56	Ultrasound-guided targeted biopsies of CT-based radiomic tumour habitats: technical development and initial experience in metastatic ovarian cancer. European Radiology, 2021, 31, 3765-3772.	4.5	20
57	Non-invasive imaging prediction of tumor hypoxia: A novel developed and externally validated CT and FDG-PET-based radiomic signatures. Radiotherapy and Oncology, 2020, 153, 97-105.	0.6	19
58	Hyperpolarized $^{13}\text{C}$ -Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinoma: A Proof of Principle Study. Cancers, 2022, 14, 335.	3.7	18
59	Modelling $Z \rightarrow \bar{l}l$ processes in ATLAS with $\bar{l}l$ -embedded $Z \rightarrow \bar{l}l$ data. Journal of Instrumentation, 2015, 10, P09018-P09018.	1.2	17
60	Monitoring and data quality assessment of the ATLAS liquid argon calorimeter. Journal of Instrumentation, 2014, 9, P07024-P07024.	1.2	16
61	Measurement of event-shape observables in $Z \rightarrow \ell\ell$ $Z \rightarrow \ell\ell$ + $\ell\ell$ - events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	3.9	15
62	Search for Higgs and $Z$ Boson Decays to $\ell\ell$ with the ATLAS Detector. Physical Review Letters, 2016, 117, 111802.	7.8	13
63	Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 670.	3.9	12
64	Clinically Interpretable Radiomics-Based Prediction of Histopathologic Response to Neoadjuvant Chemotherapy in High-Grade Serous Ovarian Carcinoma. Frontiers in Oncology, 0, 12, .	2.8	12
65	Measurement of four-jet differential cross sections in $\sqrt{s} = 8 \text{ TeV}$ proton-proton collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-76.	4.7	11
66	A radiobiological model of radiotherapy response and its correlation with prognostic imaging variables. Physics in Medicine and Biology, 2017, 62, 2658-2674.	3.0	9
67	Three-Dimensional Printed Molds for Image-Guided Surgical Biopsies: An Open Source Computational Platform. JCO Clinical Cancer Informatics, 2020, 4, 736-748.	2.1	8
68	Depth-dose distribution of proton beams using inelastic-collision cross sections of liquid water. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 189-196.	1.4	4
69	Precision radiogenomics: fusion biopsies to target tumour habitats in vivo. British Journal of Cancer, 2021, 125, 778-779.	6.4	3
70	Combined FDG and CT Radiomics Features Predict FMISO Uptake in Head and Neck Cancer. International Journal of Radiation Oncology Biology Physics, 2017, 99, S49-S50.	0.8	1
71	WE-AB-202-11: Radiobiological Modeling of Tumor Response During Radiotherapy Based On Pre-Treatment Dynamic PET Imaging Data. Medical Physics, 2016, 43, 3797-3797.	3.0	0