

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	Hyperpolarized ^{13}C -Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinoma—A Proof of Principle Study. <i>Cancers</i> , 2022, 14, 335.	3.7	18
2	Ultrasound-guided targeted biopsies of CT-based radiomic tumour habitats: technical development and initial experience in metastatic ovarian cancer. <i>European Radiology</i> , 2021, 31, 3765-3772.	4.5	20
3	Precision radiogenomics: fusion biopsies to target tumour habitats in vivo. <i>British Journal of Cancer</i> , 2021, 125, 778-779.	6.4	3
4	Triage-driven diagnosis of Barrett's esophagus for early detection of esophageal adenocarcinoma using deep learning. <i>Nature Medicine</i> , 2021, 27, 833-841.	30.7	65
5	Three-Dimensional Printed Molds for Image-Guided Surgical Biopsies: An Open Source Computational Platform. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 736-748.	2.1	8
6	Integrated Multi-Tumor Radio-Genomic Marker of Outcomes in Patients with High Serous Ovarian Carcinoma. <i>Cancers</i> , 2020, 12, 3403.	3.7	24
7	Non-invasive imaging prediction of tumor hypoxia: A novel developed and externally validated CT and FDG-PET-based radiomic signatures. <i>Radiotherapy and Oncology</i> , 2020, 153, 97-105.	0.6	19
8	Tissue-specific and interpretable sub-segmentation of whole tumour burden on CT images by unsupervised fuzzy clustering. <i>Computers in Biology and Medicine</i> , 2020, 120, 103751.	7.0	27
9	Integrative radiogenomics for virtual biopsy and treatment monitoring in ovarian cancer. <i>Insights Into Imaging</i> , 2020, 11, 94.	3.4	30
10	Predicting hypoxia status using a combination of contrast-enhanced computed tomography and ^{18}F -Fluorodeoxyglucose positron emission tomography radiomics features. <i>Radiotherapy and Oncology</i> , 2018, 127, 36-42.	0.6	55
11	Measurement of jet fragmentation in 5.02 TeV proton–lead and proton–proton collisions with the ATLAS detector. <i>Nuclear Physics A</i> , 2018, 978, 65-106.	1.5	21
12	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
13	A radiobiological model of radiotherapy response and its correlation with prognostic imaging variables. <i>Physics in Medicine and Biology</i> , 2017, 62, 2658-2674.	3.0	9
14	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton–proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 241.	3.9	61
15	Measurement of the prompt J/ψ 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
16	Search for triboson $W^+W^+W^-$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 141.	3.9	25
17	Combined FDG and CT Radiomics Features Predict FMISO Uptake in Head and Neck Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, S49-S50.	0.8	1
18	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

#	ARTICLE	IF	CITATIONS
19	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ s NN = 2.76. European Physical Journal C, 2017, 77, 379.	3.9	51
20	Performance of $b \rightarrow c$ jet identification in the ATLAS experiment. Journal of Instrumentation, 2016, 11, P04008-P04008.	1.2	278
21	Measurement of event-shape observables in $Z \rightarrow \ell^+ \ell^- Z \rightarrow \tau^+ \tau^-$, $W^+ W^-$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	3.9	15
22	Charged-particle distributions in pp interactions at $\sqrt{s} = 8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.	3.9	30
23	Search for minimal supersymmetric standard model Higgs Bosons H/A and for a Z' boson in the Au Au , 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
24	Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 670.	3.9	12
25	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 565.	3.9	31
26	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 87.	3.9	39
27	Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2016, 76, 517.	3.9	24
28	Search for Higgs and Z Boson Decays to $\ell^+ \ell^-$ with the ATLAS Detector. Physical Review Letters, 2016, 117, 111802.	7.8	13
29	Production Cross Section in $p p$ Collisions at $\sqrt{s} = 13$ TeV and Observation of Long-Range Elliptic Anisotropies in $p p$ Collisions with the ATLAS Detector. Physical Review Letters, 2016, 116, 172301.	7.8	31
30	Production Cross Section in $p p$ Collisions at $\sqrt{s} = 13$ TeV and 2.76 TeV with the ATLAS Detector. Physical Review Letters, 2016, 116, 172301.	7.8	228
31	Performance of pile-up mitigation techniques for jets in $p p$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	3.9	298
32	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2016, 117, 182002.	7.8	185
33	Measurement of the transverse momentum and p_T distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.	3.9	154
34	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. European Physical Journal C, 2016, 76, 538.	3.9	115
35	Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	3.9	63
36	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	3.9	60

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37	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s} = 8$ TeV proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 334-355.	4.1	21
38	Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	3.9	95
39	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	3.9	109
40	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
41	Study of the $B_c^+ \rightarrow J/\psi D_s^+ B_c^+ \hat{t}^* J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^+ B_c^+ \hat{t}^* J/\psi D_s^+$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 4.	3.9	40
42	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ H \hat{t}^* Z Z$ decay channel at $\sqrt{s} = 8$ TeV in pp collision data with the ATLAS detector. European Physical Journal C, 2016, 76, 45.	3.9	197
43	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
44	Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector. Physical Review Letters, 2015, 114, 221802.	7.8	27
45	Determination of the Ratio of Quark Fragmentation Fractions $\langle W \rangle$ and $\langle W \rangle$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review Letters, 2015, 115, 262001.	7.8	23
46	Modelling $Z \hat{t}^* \bar{t}$, processes in ATLAS with $\sqrt{s} = 8$ TeV embedded $Z \hat{t}^* \bar{t}$ data. Journal of Instrumentation, 2015, 10, P09018-P09018.	1.2	17
47	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
48	Measurement of four-jet differential cross sections in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-76.	4.7	11
49	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 8$ TeV and $\sqrt{s} = 7$ TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803.	7.8	1,062
50	Search for $W \rightarrow tb \rightarrow qqbb$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 165.	3.9	35
51	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	67
52	Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS experiment. European Physical Journal C, 2015, 75, 208.	3.9	27
53	Search for Higgs and Z Boson Decays to J/ψ and J/ψ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	27
54	Search for Higgs and Z Boson Decays to J/ψ and J/ψ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	27

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55	Search for Scalar Charm Quark Pair Production in $pp \rightarrow \chi_{\pm}^0 \chi_{\pm}^0 + c\bar{c}$ Collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 79.	7.8	35
56	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
57	Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 337.	3.9	39
58	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 299.	3.9	238
59	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 303.	3.9	70
60	Observation and measurements of the production of prompt and non-prompt Υ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	3.9	64
61	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
62	A neural network clustering algorithm for the ATLAS silicon pixel detector. Journal of Instrumentation, 2014, 9, P09009-P09009.	1.2	45
63	Search for Scalar Diphoton Resonances in the Mass Range $65 \leq m_{\gamma\gamma} < 600 \text{ GeV}$ with the ATLAS Detector $pp \rightarrow \chi_{\pm}^0 \chi_{\pm}^0 + \gamma\gamma$ Collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS Detector	7.8	123
64	Collision Data at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS Detector	7.8	168
65	Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.	3.9	77
66	Operation and performance of the ATLAS semiconductor tracker. Journal of Instrumentation, 2014, 9, P08009-P08009.	1.2	25
67	Monitoring and data quality assessment of the ATLAS liquid argon calorimeter. Journal of Instrumentation, 2014, 9, P07024-P07024.	1.2	16
68	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8 \text{ TeV}$ proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	4.7	71
69	TOWARD EARLY-WARNING DETECTION OF GRAVITATIONAL WAVES FROM COMPACT BINARY COALESCENCE. Astrophysical Journal, 2012, 748, 136.	4.5	200
70	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
71	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