

Maria Catarina EspÃ-rito Santo

List of Publications by Year in descending order

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111
papers

7,879
citations

87723

38
h-index

48187

88
g-index

115
all docs

115
docs citations

115
times ranked

8108
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision electroweak measurements on the Z resonance. Physics Reports, 2006, 427, 257-454.	10.3	974
2	Search for neutral MSSM Higgs bosons at LEP. European Physical Journal C, 2006, 47, 547.	1.4	592
3	Observation of the Suppression of the Flux of Cosmic Rays above 4×10^{19} eV. Physical Review Letters, 2008, 101, 061101.	2.9	500
4	Electroweak measurements in electron-positron collisions at W-boson-pair energies at LEP. Physics Reports, 2013, 532, 119-244.	10.3	453
5	Measurement of the Depth of Maximum of Extensive Air Showers above 18×10^{18} eV. Physical Review Letters, 2010, 104, 091101.	2.9	429
6	Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 239-246.	1.5	357
7	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204.	1.9	305
8	Performance of the DELPHI detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 378, 57-100.	0.7	294
9	The fluorescence detector of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 227-251.	0.7	275
10	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. Astroparticle Physics, 2010, 34, 314-326.	1.9	270
11	Searches for supersymmetric particles in e + e- collisions up to 208 GeV and interpretation of the results within the MSSM. European Physical Journal C, 2003, 31, 421-479.	1.4	221
12	Measurement of the Proton-Air Cross Section at $\sqrt{s} = 57$ TeV using the Pierre Auger Observatory. Physical Review Letters, 2012, 109, 062002.	2.9	212
13	Upper limit on the cosmic-ray photon flux above 1019eV using the surface detector of the Pierre Auger Observatory. Astroparticle Physics, 2008, 29, 243-256.	1.9	161
14	Trigger and aperture of the surface detector array of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 29-39.	0.7	151
15	Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. Physical Review Letters, 2008, 100, 211101.	2.9	141
16	Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. Astroparticle Physics, 2009, 31, 399-406.	1.9	117
17	Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. Physical Review D, 2009, 79, .	1.6	99
18	Searches for neutral Higgs bosons in extended models. European Physical Journal C, 2004, 38, 1-28.	1.4	96

#	ARTICLE	IF	CITATIONS
19	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P10011-P10011.	0.5	95
20	A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2010, 33, 108-129.	1.9	84
21	A study of the energy evolution of event shape distributions and their means with the DELPHI detector at LEP. <i>European Physical Journal C</i> , 2003, 29, 285-312.	1.4	77
22	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 627-639.	1.9	73
23	CONSTRAINTS ON THE ORIGIN OF COSMIC RAYS ABOVE 10^{18} eV FROM LARGE-SCALE ANISOTROPY SEARCHES IN DATA OF THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal Letters</i> , 2013, 762, L13.	3.0	67
24	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). <i>Astroparticle Physics</i> , 2012, 35, 591-607.	1.9	66
25	Search for the Standard Model Higgs boson at LEP in the year 2000. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 499, 23-37.	1.5	65
26	Search for doubly charged Higgs bosons at LEP2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 552, 127-137.	1.5	63
27	SEARCH FOR POINT-LIKE SOURCES OF ULTRA-HIGH ENERGY NEUTRINOS AT THE PIERRE AUGER OBSERVATORY AND IMPROVED LIMIT ON THE DIFFUSE FLUX OF TAU NEUTRINOS. <i>Astrophysical Journal Letters</i> , 2012, 755, L4.	3.0	55
28	The exposure of the hybrid detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 368-381.	1.9	54
29	b-tagging in DELPHI at LEP. <i>European Physical Journal C</i> , 2004, 32, 185-208.	1.4	53
30	Measurement of the mass and width of the W boson in e+e- collisions at $\sqrt{s} = 161 \text{--} 209 \text{ GeV}$. <i>European Physical Journal C</i> , 2008, 55, 1.	1.4	52
31	Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 635, 92-102.	0.7	52
32	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. <i>Physical Review D</i> , 2011, 84, .	1.6	51
33	Study of multi-muon bundles in cosmic ray showers detected with the DELPHI detector at LEP. <i>Astroparticle Physics</i> , 2007, 28, 273-286.	1.9	47
34	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE 10^{18} eV AT THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 34.	3.0	44
35	Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory. <i>Astroparticle Physics</i> , 2009, 32, 89-99.	1.9	43
36	Evidence for an excess of soft photons in hadronic decays of Z0. <i>European Physical Journal C</i> , 2006, 47, 273-294.	1.4	42

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37	Study of W-boson polarisations and triple gauge boson couplings in the reaction $e^+e^- \rightarrow W^+W^-$ at LEP 2. European Physical Journal C, 2008, 54, 345-364.	1.4	41
38	Search for single top production via FCNC at LEP at $\sqrt{s}=189-208$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 21-34.	1.5	39
39	Measurement and interpretation of fermion-pair production at LEP energies above the Z resonance. European Physical Journal C, 2006, 45, 589-632.	1.4	39
40	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. Advances in High Energy Physics, 2013, 2013, 1-18.	0.5	39
41	Study of inclusive J/ψ production in two-photon collisions at LEP II with the DELPHI detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 565, 76-86.	1.5	37
42	Final results from DELPHI on the searches for SM and MSSM neutral Higgs bosons. European Physical Journal C, 2004, 32, 145-183.	1.4	36
43	Measurement of V_{cb} from the decay process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 510, 55-74.	1.5	35
44	Searches for invisibly decaying Higgs bosons with the DELPHI detector at LEP. European Physical Journal C, 2004, 32, 475-492.	1.4	35
45	Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 009-009.	1.9	34
46	Study of the dependence of direct soft photon production on the jet characteristics in hadronic Z 0 decays. European Physical Journal C, 2010, 67, 343-366.	1.4	33
47	A study of the b-quark fragmentation function with the DELPHI detector at LEP I and an averaged distribution obtained at the Pole. European Physical Journal C, 2011, 71, 1.	1.4	33
48	Measurement of the $\sigma(e^+e^- \rightarrow W^+W^-\gamma)$ cross-section and limits on anomalous quartic gauge couplings with DELPHI. European Physical Journal C, 2003, 31, 139-147.	1.4	32
49	Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. Astroparticle Physics, 2012, 35, 354-361.	1.9	32
50	Measurement of the $\hat{\Gamma}_{b0}$ decay form factor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 585, 63-84.	1.5	28
51	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal, 2012, 760, 148.	1.6	27
52	Interpretation of the depths of maximum of extensive air showers measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 026-026.	1.9	27
53	Study of rare b decays with the DELPHI detector at LEP. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 207-220.	1.5	26
54	Search for exclusive decays of the $\hat{\Gamma}_{b0}$ baryon and measurement of its mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 374, 351-361.	1.5	26

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55	Search for supersymmetric particles in light gravitino scenarios and sleptons NLSP. European Physical Journal C, 2003, 27, 153-172.	1.4	26
56	Search for a fermiophobic Higgs at LEP 2. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 507, 89-103.	1.5	25
57	Study of triple-gauge-boson couplings ZZZ , $ZZ\hat{1}^3$ and $Z\hat{1}^3\hat{1}^3$ at LEP. European Physical Journal C, 2007, 51, 525-542.	1.4	24
58	The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	1.9	24
59	The small angle tile calorimeter in the DELPHI experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 425, 106-139.	0.7	22
60	ZZ production in $e + e -$ interactions at $\sqrt{s} = 183-209$ GeV. European Physical Journal C, 2003, 30, 447-466.	1.4	22
61	Measurements of CP-conserving trilinear gauge boson couplings WWV ($V = \hat{1}^3, Z$) in $e+e\hat{1}^3$ collisions at LEP2. European Physical Journal C, 2010, 66, 35-56.	1.4	20
62	A measurement of the branching fractions of the b-quark into charged and neutral b-hadrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 29-42.	1.5	17
63	Study of b-quark mass effects in multijet topologies with the DELPHI detector at LEP. European Physical Journal C, 2008, 55, 525-538.	1.4	17
64	A precise measurement of the tau lepton lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 448-460.	1.5	16
65	Search for the lightest chargino at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 382, 323-336.	1.5	16
66	Observation of the muon inner bremsstrahlung at LEP1. European Physical Journal C, 2008, 57, 499-514.	1.4	16
67	The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray showers detected by the Pierre Auger Observatory. Astroparticle Physics, 2011, 35, 266-276.	1.9	16
68	Determination of the $e+e\hat{1}^3\hat{1}^3\hat{1}^3(\hat{1}^3)$ cross-section at centre-of-mass energies ranging from 189 GeV to 202 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 491, 67-80.	1.5	15
69	Determination of the b quark mass at the MZ scale with the DELPHI detector at LEP. European Physical Journal C, 2006, 46, 569-583.	1.4	15
70	Investigation of Colour Reconnection in WW events with the DELPHI detector at LEP-2. European Physical Journal C, 2007, 51, 249.	1.4	15
71	Search for neutralinos, scalar leptons and scalar quarks in $e+e\hat{1}^3$ interactions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 651-666.	1.5	14
72	Percolation Effects in Very-High-Energy Cosmic Rays. Physical Review Letters, 2006, 96, 162001.	2.9	14

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73	Search for R-parity violation with a coupling at \hat{A} GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 22-36.	1.5	13
74	Search for excited leptons in $e+e-$ collisions at $\sqrt{s} = 189\hat{A}\%{\text{GeV}}$. European Physical Journal C, 2006, 46, 277.	1.4	13
75	Search for charged Higgs bosons in $e+e\hat{\nu}$ collisions at $s=189\hat{A}\%{202\hat{A}\text{GeV}}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 17-28.	1.5	12
76	Search for an LSP gluino at LEP with the DELPHI detector. European Physical Journal C, 2003, 26, 505-525.	1.4	12
77	Search for $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:sc="http://www.elsevier.com/xml/sc/dtd" \rangle$ production in $e+e\hat{\nu}$ collisions at $\sqrt{s}=130\hat{A}\%{207\text{ GeV}}$. European Physical Journal C, 2009, 60, 1-15.	1.5	11
78	A study of $\langle \text{math}\{b\}\text{ar}\{\text{math}\{b\}\}\rangle$ production in $e+e\hat{\nu}$ collisions at $\sqrt{s}=130\hat{A}\%{207\text{ GeV}}$. European Physical Journal C, 2009, 60, 1-15.	1.4	11
79	Searches for neutral Higgs bosons in $\langle \text{math}\{e\}^+\{\text{math}\{e\}^-\rangle$ collisions from $\sqrt{s} = 191.6\hat{A}\%{201.7\text{ GeV}}$. European Physical Journal C, 2002, 23, 409-435.	1.4	9
80	Search for resonant $\langle \text{math}\{e\}^+\{\text{math}\{e\}^-\rangle$ production at $\sqrt{s} = 183\hat{A}\%{208\text{ GeV}}$. European Physical Journal C, 2003, 28, 15-26.	1.4	9
81	Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	1.9	9
82	Single intermediate vector boson production in $e+e\hat{\nu}$ collisions at $s=183\hat{A}\%{189\hat{A}\text{GeV}}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 515, 238-254.	1.5	8
83	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. Astroparticle Physics, 2013, 50-52, 92-101.	1.9	8
84	Search for the sgoldstino at from 189 to 202 $\hat{A}\text{GeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 494, 203-214.	1.5	7
85	A measurement of the tau hadronic branching ratios. European Physical Journal C, 2006, 46, 1-26.	1.4	7
86	A determination of the centre-of-mass energy at LEP2 using radiative two-fermion events. European Physical Journal C, 2006, 46, 295-305.	1.4	7
87	Measurement of the ZZ cross-section in $e+e\hat{\nu}$ interactions at $183\hat{A}\%{189\hat{A}\text{GeV}}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 199-213.	1.5	6
88	The $\langle \text{math}\{\eta_c\}(2980)\rangle$ formation in two-photon collisions at LEP energies. European Physical Journal C, 2003, 31, 481-489.	1.4	6
89	Study of leading hadrons in gluon and quark fragmentation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 147-157.	1.5	6
90	A search for anisotropy in the arrival directions of ultra high energy cosmic rays recorded at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 040-040.	1.9	6

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91	Charged particle multiplicity in three-jet events and two-gluon systems. European Physical Journal C, 2005, 44, 311-331.	1.4	5
92	Percolation and high energy cosmic rays above 1017eV. Astroparticle Physics, 2007, 27, 271-277.	1.9	5
93	Search for pentaquarks in the hadronic decays of the Z boson with the DELPHI detector at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 151-160.	1.5	5
94	Determination of A FB b at the Z pole using inclusive charge reconstruction and lifetime tagging. European Physical Journal C, 2005, 40, 1-25.	1.4	4
95	Search for a fourth generation b^c -quark at LEP-II at $\sqrt{s} = 196$ GeV. European Physical Journal C, 2007, 50, 507-518.	1.4	4
96	Search for high mass $\tilde{\chi}^0_1$ resonances in $e^+e^- \rightarrow \ell^+\ell^- \gamma\gamma$ and $e^+e^- \rightarrow q\bar{q}\gamma\gamma$ at LEP and LEP I. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 179-190.	1.5	3
97	Rapidity-rank structure of pairs in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 490, 61-70.	1.5	3
98	Inclusive b decays to wrong sign charmed mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 561, 26-40.	1.5	3
99	$\tilde{\chi}^0_1$ production in e^+e^- interactions at $\sqrt{s} = 183-209$ GeV. European Physical Journal C, 2007, 51, 503-523.	1.5	3
100	Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector. European Physical Journal C, 2008, 54, 1.	1.4	3
102	A model for net-baryon rapidity distribution. European Physical Journal C, 2009, 61, 391-399.	1.4	3
103	Study of double-tagged $\tilde{\chi}^0_1$ events at LEP II. European Physical Journal C, 2006, 46, 559-568.	1.4	2
104	Performance of the DELPHI small angle tile calorimeter. IEEE Transactions on Nuclear Science, 1996, 43, 1496-1500.	1.2	1
105	An upper limit for $Br(Z^0 \rightarrow ggg)$ from symmetric 3-jet Z0 hadronic decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 405-415.	1.5	1
106	The sensitivity of cosmic ray air shower experiments for excited lepton and leptoquark detection. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 609-628.	1.4	1
107	Di-jet production in $\tilde{\chi}^0_1$ collisions at LEP2. European Physical Journal C, 2008, 58, 531-541.	1.4	1
108	Inclusive single-particle production in two-photon collisions at LEP II with the DELPHI detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 444-449.	1.5	1

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109	Correlations between polarisation states of W particles in the reaction $e^+e^- \rightarrow W^+W^-$ at LEP2 energies 189–209 GeV. <i>European Physical Journal C</i> , 2009, 63, 611-623.	1.4	1
110	Ultra-high energy cosmic rays: Present and future. <i>Cogent Physics</i> , 2015, 2, 1062216.	0.7	1
111	Measurement of the tau lepton polarisation at LEP2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 659, 65-73.	1.5	0