

David Calvo

List of Publications by Year in descending order

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47
papers

1,139
citations

516710

16
h-index

377865

34
g-index

48
all docs

48
docs citations

48
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	Letter of intent for KM3NeT 2.0. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 084001.	3.6	512
2	Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources. Astroparticle Physics, 2019, 111, 100-110.	4.3	71
3	Deep sea tests of a prototype of the KM3NeT digital optical module. European Physical Journal C, 2014, 74, 1.	3.9	46
4	Simultaneous transmission of 20x2 WDM/SCM-QKD and 4 bidirectional classical channels over a PON. Optics Express, 2012, 20, 16358.	3.4	33
5	The prototype detection unit of the KM3NeT detector. European Physical Journal C, 2016, 76, 1.	3.9	32
6	Experimental demonstration of subcarrier multiplexed quantum key distribution system. Optics Letters, 2012, 37, 2031.	3.3	29
7	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. Astroparticle Physics, 2013, 42, 7-14.	4.3	28
8	Immunosuppressive profiles in liquid biopsy at diagnosis predict response to neoadjuvant chemotherapy in triple-negative breast cancer. European Journal of Cancer, 2020, 139, 119-134.	2.8	26
9	Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. Journal of Instrumentation, 2018, 13, P05035-P05035.	1.2	25
10	Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
11	First i-TED demonstrator: A Compton imager with Dynamic Electronic Collimation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 953, 163228.	1.6	21
12	The KM3NeT potential for the next core-collapse supernova observation with neutrinos. European Physical Journal C, 2021, 81, 1.	3.9	21
13	Dependence of atmospheric muon flux on seawater depth measured with the first KM3NeT detection units. European Physical Journal C, 2020, 80, 1.	3.9	20
14	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1079" altimg="si53.gif"} \rangle \langle \text{mml:mi} \rangle \text{l}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Ray position reconstruction in large monolithic LaCl ₃ (Ce) crystals with SiPM readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 931, 1-22.	1.6	18
15	KM3NeT front-end and readout electronics system: hardware, firmware, and software. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	18
16	Performance of prototypes for the ALICE electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 6-13.	1.6	17
17	Imaging neutron capture cross sections: i-TED proof-of-concept and future prospects based on Machine-Learning techniques. European Physical Journal A, 2021, 57, 1.	2.5	16
18	Expansion cone for the 3-inch PMTs of the KM3NeT optical modules. Journal of Instrumentation, 2013, 8, T03006-T03006.	1.2	15

#	ARTICLE	IF	CITATIONS
19	On the performance of large monolithic LaCl_3 (Ce) crystals coupled to pixelated silicon photosensors. Journal of Instrumentation, 2018, 13, P03014-P03014.	1.2	15
20	Event reconstruction for KM3NeT/ORCA using convolutional neural networks. Journal of Instrumentation, 2020, 15, P10005-P10005.	1.2	15
21	gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. Computer Physics Communications, 2020, 256, 107477.	7.5	14
22	Machine Learning aided 3D-position reconstruction in large LaCl_3 crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1001, 165249.	1.6	13
23	Microwave Photonics Parallel Quantum Key Distribution. IEEE Photonics Journal, 2012, 4, 931-942.	2.0	12
24	Long term monitoring of the optical background in the Capo Passero deep-sea site with the NEMO tower prototype. European Physical Journal C, 2016, 76, 1.	3.9	11
25	Digital optical module electronics of KM3NeT. Physics of Particles and Nuclei, 2016, 47, 918-925.	0.7	9
26	Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling. Journal of Instrumentation, 2020, 15, P11027-P11027.	1.2	9
27	Architecture and performance of the KM3NeT front-end firmware. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	9
28	A method to stabilise the performance of negatively fed KM3NeT photomultipliers. Journal of Instrumentation, 2016, 11, P12014-P12014.	1.2	8
29	The Control Unit of the KM3NeT Data Acquisition System. Computer Physics Communications, 2020, 256, 107433.	7.5	8
30	Status of the central logic board (CLB) of the KM3NeT neutrino telescope. Journal of Instrumentation, 2015, 10, C12027-C12027.	1.2	6
31	Sub-nanosecond synchronization node for high-energy astrophysics: The KM3NeT White Rabbit Node. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162777.	1.6	6
32	Reliability studies for the White Rabbit Switch in KM3NeT: FIDES and Highly Accelerated Life Tests. Journal of Instrumentation, 2020, 15, C02042-C02042.	1.2	6
33	KM3NeT acquisition: the new version of the Central Logic Board and its related Power Board, with highlights and evolution of the Control Unit. Journal of Instrumentation, 2020, 15, C03024-C03024.	1.2	6
34	A first prototype of $\langle \mathcal{D} \rangle$ total-energy detector wit	1.6	5
35	Nanobeacon: A low cost time calibration instrument for the KM3NeT neutrino telescope. , 2014, , .		3
36	High resolution time to digital converter for the KM3NeT neutrino telescope. Journal of Instrumentation, 2015, 10, C01015-C01015.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Nanobeacon: A time calibration device for KM3NeT. EPJ Web of Conferences, 2019, 207, 07002.	0.3	2
38	Nanobeacon and Laser Beacon: KM3NeT Time Calibration Devices. , 2015, , .		2
39	Reliability studies for KM3NeT electronics: The FIDES method. , 2017, , .		2
40	Experimental demonstration of Subcarrier Multiplexed Quantum Key Distribution system feasibility. , 2011, , .		1
41	1 ns time to digital converters for the KM3NeT data readout system. , 2014, , .		1
42	KM3NeT Neutrino Telescope 1-ns Resolution Time To Digital Converters. EPJ Web of Conferences, 2016, 116, 05002.	0.3	1
43	Gamma-ray position reconstruction in large lanthanum-halide crystals with SiPM readout: analytical vs. neural-network algorithms. , 2019, , .		1
44	KM3NeT Front-end electronics upgrade: CLBv3 and PBv3. , 2017, , .		1
45	First Compton imaging tests with i-TED. , 2019, , .		0
46	High-Resolution and Low Resource Time To Digital Converters for the KM3NeT Neutrino Telescope. , 2015, , .		0
47	Science with Neutrino Telescopes in Spain. Universe, 2022, 8, 89.	2.5	0