

# David Calvo

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Science with Neutrino Telescopes in Spain. Universe, 2022, 8, 89. A first prototype of $C_6D_6$	2.5	0
2	total-energy detector with the KM3NeT potential for the next core-collapse supernova observation with neutrinos. European Physical Journal C, 2021, 81, 1.	1.6	5
3	Machine Learning aided 3D-position reconstruction in large LaCl <sub>3</sub> crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1001, 165249.	3.9	21
4	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.	1.6	13
5	Architecture and performance of the KM3NeT front-end firmware. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.6	9
6	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
7	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
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	gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. Computer Physics Communications, 2020, 256, 107477.	7.5	14
10	Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling. Journal of Instrumentation, 2020, 15, P11027-P11027.	1.2	9
11	The Control Unit of the KM3NeT Data Acquisition System. Computer Physics Communications, 2020, 256, 107433.	7.5	8
12	Event reconstruction for KM3NeT/ORCA using convolutional neural networks. Journal of Instrumentation, 2020, 15, P10005-P10005.	1.2	15
13	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
14	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
15	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
16	Nanobeacon: A time calibration device for KM3NeT. EPJ Web of Conferences, 2019, 207, 07002.	0.3	2
17	Sensitivity of the KM3NeT/ORCA neutrino telescope to point-like neutrino sources. Astroparticle Physics, 2019, 111, 100-110.	4.3	71

#	ARTICLE	IF	CITATIONS
19	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1079" altimg="si53.gif" \rangle \langle \text{mml:mi} \rangle^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Ray position reconstruction in large monolithic LaCl <sub>3</sub> (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
20	First Compton imaging tests with i-TED. , 2019, , .		0
21	Gamma-ray position reconstruction in large lanthanum-halide crystals with SiPM readout: analytical vs. neural-network algorithms. , 2019, , .		1
22	KM3NeT front-end and readout electronics system: hardware, firmware, and software. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	18
23	Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. Journal of Instrumentation, 2018, 13, P05035-P05035.	1.2	25
24	On the performance of large monolithic LaCl <sub>3</sub> (Ce) crystals coupled to pixelated silicon photosensors. Journal of Instrumentation, 2018, 13, P03014-P03014.	1.2	15
25	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
26	Reliability studies for KM3NeT electronics: The FIDES method. , 2017, , .		2
27	KM3NeT Front-end electronics upgrade: CLBv3 and PBv3. , 2017, , .		1
28	KM3NeT Neutrino Telescope 1-ns Resolution Time To Digital Converters. EPJ Web of Conferences, 2016, 116, 05002.	0.3	1
29	A method to stabilise the performance of negatively fed KM3NeT photomultipliers. Journal of Instrumentation, 2016, 11, P12014-P12014.	1.2	8
30	Letter of intent for KM3NeT 2.0. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 084001.	3.6	512
31	Digital optical module electronics of KM3NeT. Physics of Particles and Nuclei, 2016, 47, 918-925.	0.7	9
32	The prototype detection unit of the KM3NeT detector. European Physical Journal C, 2016, 76, 1.	3.9	32
33	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
34	Status of the central logic board (CLB) of the KM3NeT neutrino telescope. Journal of Instrumentation, 2015, 10, C12027-C12027.	1.2	6
35	High resolution time to digital converter for the KM3NeT neutrino telescope. Journal of Instrumentation, 2015, 10, C01015-C01015.	1.2	2
36	Nanobeacon and Laser Beacon: KM3NeT Time Calibration Devices. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	High-Resolution and Low Resource Time To Digital Converters for the KM3NeT Neutrino Telescope. , 2015, , .		0
38	Deep sea tests of a prototype of the KM3NeT digital optical module. European Physical Journal C, 2014, 74, 1.	3.9	46
39	1 ns time to digital converters for the KM3NeT data readout system. , 2014, , .		1
40	Nanobeacon: A low cost time calibration instrument for the KM3NeT neutrino telescope. , 2014, , .		3
41	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. Astroparticle Physics, 2013, 42, 7-14.	4.3	28
42	Expansion cone for the 3-inch PMTs of the KM3NeT optical modules. Journal of Instrumentation, 2013, 8, T03006-T03006.	1.2	15
43	Experimental demonstration of subcarrier multiplexed quantum key distribution system. Optics Letters, 2012, 37, 2031.	3.3	29
44	Simultaneous transmission of 20x2 WDM/SCM-QKD and 4 bidirectional classical channels over a PON. Optics Express, 2012, 20, 16358.	3.4	33
45	Microwave Photonics Parallel Quantum Key Distribution. IEEE Photonics Journal, 2012, 4, 931-942.	2.0	12
46	Experimental demonstration of Subcarrier Multiplexed Quantum Key Distribution system feasibility. , 2011, , .		1
47	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