Samuele Sangiorgio

List of Publications by Year
in descending order

49	1,554	471509 17	302126 39
papers	citations	h-index	g-index

49	49	49	1194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lowering the Energy Threshold of the CUORE Experiment: Benefits in the Surface Alpha Events Reconstruction. Journal of Low Temperature Physics, 2020, 200, 321-330.	1.4	4
2	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. Journal of Instrumentation, 2020, 15, P01019-P01019.	1.2	9
3	Improved Limit on Neutrinoless Double-Beta Decay in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mo>â€‰</mml:mo><mml:mi>Te</mml:mi></mml:mrow><mml: /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> with CUORE. Physical Review Letters, 2020, 124, 122501.	7.8	133
4	Applying a Template of Expected Uncertainties to Updating 239Pu(n,f) Cross-section Covariances in the Neutron Data Standards Database. Nuclear Data Sheets, 2020, 163, 228-248.	2.2	21
5	The CUORE Detector and Results. Journal of Low Temperature Physics, 2020, 199, 519-528.	1.4	14
6	Simulation of charge readout with segmented tiles in nEXO. Journal of Instrumentation, 2019, 14, P09020-P09020.	1.2	8
7	Imaging individual barium atoms in solid xenon for barium tagging in nEXO. Nature, 2019, 569, 203-207.	27.8	26
8	Background discrimination for neutrinoless double beta decay in liquid xenon using Cherenkov light. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 76-83.	1.6	5
9	Results from the Cuore Experiment â€. Universe, 2019, 5, 10.	2.5	5
10	Study of rare nuclear processes with CUORE. International Journal of Modern Physics A, 2018, 33, 1843002.	1.5	11
11	First Results from CUORE: A Search for Lepton Number Violation via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>0</mml:mn><mml:mi>Î½</mml:mi><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:mrow> Decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow>	7.8	246
12	Characterization of an Ionization Readout Tile for nEXO. Journal of Instrumentation, 2018, 13, P01006-P01006.	1.2	14
13	VUV-Sensitive Silicon Photomultipliers for Xenon Scintillation Light Detection in nEXO. IEEE Transactions on Nuclear Science, 2018, 65, 2823-2833.	2.0	29
14	Study of silicon photomultiplier performance in external electric fields. Journal of Instrumentation, 2018, 13, T09006-T09006.	1.2	5
15	The detector calibration system for the CUORE cryogenic bolometer array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 32-44.	1.6	14
16	The CUORE cryostat and its bolometric detector. Journal of Instrumentation, 2017, 12, C02055-C02055.	1.2	2
17	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. Journal of Instrumentation, 2017, 12, P12011-P12011.	1.2	10
18	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7

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19	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
20	CUORE-0 detector: design, construction and operation. Journal of Instrumentation, 2016, 11, P07009-P07009.	1.2	64
21	Search for Neutrinoless Double-Beta Decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>with CUORE-0. Physical Review Letters, 2015, 115, 102502.	7.8	189
22	Modeling ionization and recombination from low energy nuclear recoils in liquid argon. Astroparticle Physics, 2015, 69, 24-29.	4.3	3
23	First Measurement of the Ionization Yield of Nuclear Recoils in Liquid Argon. Physical Review Letters, 2014, 112, 171303.	7.8	30
24	First CUORE-0 Performance Results and Status of CUORE Experiment. Journal of Low Temperature Physics, 2014, 176, 986-994.	1.4	1
25	The low energy spectrum of TeO₂bolometers: results and dark matter perspectives for the CUORE-0 and CUORE experiments. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 038-038.	5.4	15
26	Validation of techniques to mitigate copper surface contamination in CUORE. Astroparticle Physics, 2013, 45, 13-22.	4.3	66
27	Search for 14.4 keV solar axions from M1 transition of⁵⁷Fe with CUORE crystals. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 007-007.	5.4	19
28	The NIFFTE project. Journal of Instrumentation, 2013, 8, C12018-C12018.	1.2	2
29	Search for double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>130</mml:mn></mml:msup></mml:math>Te to the first<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math>excited	2.9	16
30	CUORE crystal validation runs: Results on radioactive contamination and extrapolation to CUORE background. Astroparticle Physics, 2012, 35, 839-849.	4.3	62
31	The MARE project: a new 187Re neutrino mass experiment with sub eV sensitivity. Nuclear Physics, Section B, Proceedings Supplements, 2011, 221, 394.	0.4	1
32	Search for Î²+/EC double beta decay of 120Te. Astroparticle Physics, 2011, 34, 643-648.	4.3	17
33	Composite macro-bolometers for the rejection of surface radioactive background in rare-event experiments. Astroparticle Physics, 2011, 34, 809-821.	4.3	6
34	130Te neutrinoless double-beta decay with CUORICINO. Astroparticle Physics, 2011, 34, 822-831.	4.3	204
35	Muon-induced backgrounds in the CUORICINO experiment. Astroparticle Physics, 2010, 34, 18-24.	4.3	24
36	Measurement of the nuclear ionization quench factor in a dual-phase argon detector. , 2010, , .		0

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37	The hunt for coherent neutrino-nucleus scattering with ionization argon detectors. , 2010, , .		2
38	A New Technique for the Identification of Surface Background: The Surface Sensitive Bolometers. Journal of Low Temperature Physics, 2008, 151, 841-847.	1.4	2
39	Determination of uranium content in water using cathodic stripping voltammetry and gamma-spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 2008, 277, 413-417.	1.5	2
40	CUORE EXPERIMENT: THE SEARCH FOR NEUTRINOLESS DOUBLE BETA DECAY. International Journal of Modern Physics A, 2008, 23, 3395-3398.	1.5	10
41	CUORE: An Experiment to Investigate for Neutrinoless Double Beta Decay by Cooling 750 kg of TeO2 Crystals at 10mK. AIP Conference Proceedings, 2006, , .	0.4	1
42	The microcalorimeter arrays for a Rhenium experiment (MARE): A next-generation calorimetric neutrino mass experiment based on the study of 187Re Î² spectrum. Progress in Particle and Nuclear Physics, 2006, 57, 68-70.	14.4	13
43	Development of new bolometers for rare events with background active discrimination. Progress in Particle and Nuclear Physics, 2006, 57, 269-271.	14.4	0
44	The CUORICINO and CUORE double beta decay experiments. Progress in Particle and Nuclear Physics, 2006, 57, 203-216.	14.4	7
45	New CUORICINO results and status of CUORE. Physics of Atomic Nuclei, 2006, 69, 2083-2089.	0.4	1
46	Surface-sensitive macrobolometers for the identification of external charged particles. Applied Physics Letters, 2005, 86, 134106.	3.3	14
47	New Limit on the NeutrinolessÎ²Î²Decay ofTe130. Physical Review Letters, 2005, 95, 142501.	7.8	93
48	First results on neutrinoless double beta decay of 130Te with the calorimetric CUORICINO experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 260-268.	4.1	93
49	Innovations in low-temperature calorimeters: surface sensitive bolometers for background rejection and capacitive bolometers for higher energy resolution. , 2004, 5540, 165.		1