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	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
2	130Te neutrinoless double-beta decay with CUORICINO. Astroparticle Physics, 2011, 34, 822-831.	4.3	204
3	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, 2018, 121, 032501.	7.8	189
4	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:mprescripts /><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
5	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
6	New Limit on the NeutrinolessÎ²Î²Decay ofTe130. Physical Review Letters, 2005, 95, 142501.	7.8	93
7	Validation of techniques to mitigate copper surface contamination in CUORE. Astroparticle Physics, 2013, 45, 13-22.	4.3	66
8	CUORE-0 detector: design, construction and operation. Journal of Instrumentation, 2016, 11, P07009-P07009.	1.2	64
9	CUORE crystal validation runs: Results on radioactive contamination and extrapolation to CUORE background. Astroparticle Physics, 2012, 35, 839-849.	4.3	62
10	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
11	First Measurement of the Ionization Yield of Nuclear Recoils in Liquid Argon. Physical Review Letters, 2014, 112, 171303.	7.8	30
12	VUV-Sensitive Silicon Photomultipliers for Xenon Scintillation Light Detection in nEXO. IEEE Transactions on Nuclear Science, 2018, 65, 2823-2833.	2.0	29
13	Imaging individual barium atoms in solid xenon for barium tagging in nEXO. Nature, 2019, 569, 203-207.	27.8	26
14	Muon-induced backgrounds in the CUORICINO experiment. Astroparticle Physics, 2010, 34, 18-24.	4.3	24
15	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
16	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
17	Search for Î²+/EC double beta decay of 120Te. Astroparticle Physics, 2011, 34, 643-648.	4.3	17
18	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

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19	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
20	Surface-sensitive macrobolometers for the identification of external charged particles. Applied Physics Letters, 2005, 86, 134106.	3.3	14
21	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
22	Characterization of an Ionization Readout Tile for nEXO. Journal of Instrumentation, 2018, 13, P01006-P01006.	1.2	14
23	The CUORE Detector and Results. Journal of Low Temperature Physics, 2020, 199, 519-528.	1.4	14
24	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
25	Study of rare nuclear processes with CUORE. International Journal of Modern Physics A, 2018, 33, 1843002.	1.5	11
26	CUORE EXPERIMENT: THE SEARCH FOR NEUTRINOLESS DOUBLE BETA DECAY. International Journal of Modern Physics A, 2008, 23, 3395-3398.	1.5	10
27	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
28	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. Journal of Instrumentation, 2020, 15, P01019-P01019.	1.2	9
29	Simulation of charge readout with segmented tiles in nEXO. Journal of Instrumentation, 2019, 14, P09020-P09020.	1.2	8
30	The CUORICINO and CUORE double beta decay experiments. Progress in Particle and Nuclear Physics, 2006, 57, 203-216.	14.4	7
31	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
32	Composite macro-bolometers for the rejection of surface radioactive background in rare-event experiments. Astroparticle Physics, 2011, 34, 809-821.	4.3	6
33	Study of silicon photomultiplier performance in external electric fields. Journal of Instrumentation, 2018, 13, T09006-T09006.	1.2	5
34	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
35	Results from the Cuore Experiment â€. Universe, 2019, 5, 10.	2.5	5
36	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

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37	Modeling ionization and recombination from low energy nuclear recoils in liquid argon. Astroparticle Physics, 2015, 69, 24-29.	4.3	3
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	The hunt for coherent neutrino-nucleus scattering with ionization argon detectors. , 2010, , .		2
41	The NIFFTE project. Journal of Instrumentation, 2013, 8, C12018-C12018.	1.2	2
42	The CUORE cryostat and its bolometric detector. Journal of Instrumentation, 2017, 12, C02055-C02055.	1.2	2
43	Innovations in low-temperature calorimeters: surface sensitive bolometers for background rejection and capacitive bolometers for higher energy resolution. , 2004, 5540, 165.		1
44	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
45	New CUORICINO results and status of CUORE. Physics of Atomic Nuclei, 2006, 69, 2083-2089.	0.4	1
46	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
47	First CUORE-0 Performance Results and Status of CUORE Experiment. Journal of Low Temperature Physics, 2014, 176, 986-994.	1.4	1
48	Development of new bolometers for rare events with background active discrimination. Progress in Particle and Nuclear Physics, 2006, 57, 269-271.	14.4	0
49	Measurement of the nuclear ionization quench factor in a dual-phase argon detector. , 2010, , .		0