

# Marco Barucci

## List of Publications by Citations

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69  
papers

1,446  
citations

17  
h-index

37  
g-index

81  
ext. papers

1,602  
ext. citations

3.2  
avg, IF

3.15  
L-index

#	Paper	IF	Citations
69	CUORE: a cryogenic underground observatory for rare events. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 518, 775-798	1.2	236
68	$^{130}\text{Te}$ neutrinoless double-beta decay with CUORICINO. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 822-831	2.4	180
67	First Results from CUORE: A Search for Lepton Number Violation via $0\nu\beta\beta$ Decay of $^{130}\text{Te}$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 132501	7.4	179
66	First results on neutrinoless double beta decay of $^{130}\text{Te}$ with the calorimetric CUORICINO experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 584, 260-268	4.2	87
65	New limit on the neutrinoless betabeta decay of $^{130}\text{Te}$ . <i>Physical Review Letters</i> , <b>2005</b> , 95, 142501	7.4	81
64	Scanning multispectral IR reflectography SMIRR: an advanced tool for art diagnostics. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 847-56	24.3	70
63	Spectroscopic detection of radiocarbon dioxide at parts-per-quadrillion sensitivity. <i>Optica</i> , <b>2016</b> , 3, 385	8.6	66
62	Physics potential and prospects for the CUORICINO and CUORE experiments. <i>Astroparticle Physics</i> , <b>2003</b> , 20, 91-110	2.4	59
61	Low temperature thermal conductivity of Kevlar. <i>Cryogenics</i> , <b>2000</b> , 40, 489-491	1.8	31
60	Optical devices provide unprecedented insights into the laser cleaning of calcium oxalate layers. <i>Microchemical Journal</i> , <b>2016</b> , 124, 331-337	4.8	26
59	Thermal conductivity measurements of pitch-bonded graphites at millikelvin temperatures: Finding a replacement for AGOT graphite. <i>Cryogenics</i> , <b>2009</b> , 49, 159-164	1.8	23
58	Thermal conductivity of Torlon between 4.2 and 300K. <i>Cryogenics</i> , <b>2005</b> , 45, 295-299	1.8	21
57	Optical and spectroscopic tools for evaluating Er:YAG laser removal of shellac varnish. <i>Studies in Conservation</i> , <b>2015</b> , 60, S91-S96	0.6	20
56	Muon-induced backgrounds in the CUORICINO experiment. <i>Astroparticle Physics</i> , <b>2010</b> , 34, 18-24	2.4	20
55	Measurement of Low Temperature Specific Heat of Crystalline $\text{TeO}_2$ for the Optimization of Bolometric Detectors. <i>Journal of Low Temperature Physics</i> , <b>2001</b> , 123, 303-314	1.3	19
54	Low temperature thermal conductivity of Kapton and Upilex. <i>Cryogenics</i> , <b>2000</b> , 40, 145-147	1.8	18
53	Interferometric dilatometer for thermal expansion coefficient determination in the 4B00 K range. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 689-694	2	17

52	Spectral Imaging and Archival Data in Analysing Madonna of the Rabbit Paintings by Manet and Titian. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7408-7412	16.4	15
51	Search for $\beta/\text{EC}$ double beta decay of $^{120}\text{Te}$ . <i>Astroparticle Physics</i> , <b>2011</b> , 34, 643-648	2.4	15
50	Search for double- $\beta$ decay of $^{130}\text{Te}$ to the first $0^+$ excited state of $^{130}\text{Xe}$ with the CUORICINO experiment bolometer array. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	14
49	The low radioactivity link of the CUORE experiment. <i>Journal of Instrumentation</i> , <b>2009</b> , 4, P09003-P09003 <sub>1</sub>		14
48	Application of non-invasive optical monitoring methodologies to follow and record painting cleaning processes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 957-966	2.6	12
47	Measurement of thermal conductivity of the supports of CUORE cryostat. <i>Cryogenics</i> , <b>2008</b> , 48, 166-168	1.8	12
46	Low-temperature thermal properties of polypropylene. <i>Cryogenics</i> , <b>2002</b> , 42, 551-555	1.8	12
45	Thermal expansion and thermal conductivity of glass-fibre reinforced nylon at low temperature. <i>Cryogenics</i> , <b>2000</b> , 40, 465-467	1.8	12
44	Determination of thickness of thin turbid painted over-layers using micro-scale spatially offset Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	11
43	Design of the Cryogen-Free Cryogenic System for the CUORE Experiment. <i>Journal of Low Temperature Physics</i> , <b>2008</b> , 151, 662-668	1.3	11
42	A cryogenic underground observatory for rare events: CUORE, an update. <i>Physics of Atomic Nuclei</i> , <b>2003</b> , 66, 452-457	0.4	11
41	CUORE EXPERIMENT: THE SEARCH FOR NEUTRINOLESS DOUBLE BETA DECAY. <i>International Journal of Modern Physics A</i> , <b>2008</b> , 23, 3395-3398	1.2	10
40	Measurement of the thermal conductivity of copper samples between 30 and 150 mK. <i>Cryogenics</i> , <b>2004</b> , 44, 875-878	1.8	10
39	Dielectric properties of Stycast 1266 over the 0.07-100 K temperature range. <i>Cryogenics</i> , <b>1999</b> , 39, 963-966		10
38	Evidence for a helical and a chiral phase transition in the Gd(hfac) <sub>3</sub> NiTiPr magnetic specific heat. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1460-1461	2.8	8
37	Experimental study of high energy electron interactions in a superconducting aluminum alloy resonant bar. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 1801-1806	2.3	7
36	Very low temperature specific heat of Al 5056. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 1452-1454	2.8	7
35	Very-low temperature specific heat of Torlon. <i>Cryogenics</i> , <b>2006</b> , 46, 767-770	1.8	7

34	Chiral and helical phase transitions in quasi-1D molecular magnets. <i>Polyhedron</i> , <b>2005</b> , 24, 2568-2572	2.7	7
33	Low Temperature Thermal Conductivity of Ti6Al4V Alloy. <i>Journal of Low Temperature Physics</i> , <b>2008</b> , 151, 645-649	1.3	6
32	The CUORICINO and CUORE double beta decay experiments. <i>Progress in Particle and Nuclear Physics</i> , <b>2006</b> , 57, 203-216	10.6	6
31	Use of good copper for the optimization of the cooling down procedure of large masses. <i>Cryogenics</i> , <b>2004</b> , 44, 167-170	1.8	6
30	Modern acrylic paints probed by optical coherence tomography and infrared reflectography. <i>Microchemical Journal</i> , <b>2018</b> , 138, 65-71	4.8	5
29	Excess Heat Capacity in NTD Ge Thermistors. <i>Journal of Low Temperature Physics</i> , <b>2006</b> , 143, 153-162	1.3	5
28	Measurement of thermal properties for modeling and optimization of large mass bolometers. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 329-333, 1614-1615	2.8	5
27	CUORICINO status and CUORE prospects. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2005</b> , 145, 268-271		5
26	Electrical characteristics of heavily doped NTD Ge at very low temperatures. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 368, 139-142	2.8	5
25	A study of surface optical properties for characterizing the cleaning process of paintings <b>2013</b> ,		4
24	Cuoricino and CUORE detectors: developing big arrays of large mass bolometers for rare events physics. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2006</b> , 150, 214-218		4
23	Low Temperature Thermal Conductivity of PVC. <i>Journal of Low Temperature Physics</i> , <b>2006</b> , 144, 49-59	1.3	4
22	The cryostat of the CUORE Project, a 1-ton scale cryogenic experiment for Neutrinoless Double Beta Decay Research. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 012042	0.3	3
21	Further developments in the CUORICINO experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 559, 352-354 <sup>1,2</sup>		3
20	First results from the Cuoricino experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 520, 132-134	1.2	3
19	DEVELOPMENT OF TI BASED TRANSITION EDGE SENSORS FOR CRYOGENIC DETECTORS <b>2002</b> ,		3
18	New CUORICINO results on the way to CUORE. <i>Physica Scripta</i> , <b>2006</b> , T127, 49-51	2.6	2
17	CUORICINO: a new large bolometer array for astroparticle physics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 518, 256-258	1.2	2

16	Present and Future Cryogenic Experiments on Double-Beta Decay. <i>European Physical Journal D</i> , <b>2002</b> , 52, 531-540		2
15	CUORE: low-temperature techniques for neutrino physics. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 329-333, 1570-1573	2.8	2
14	LOW TEMPERATURE PROPERTIES OF NTD GE: BEST CHOICE FOR CUORE EXPERIMENT <b>2004</b> ,		2
13	MEASUREMENT OF ELECTRON-PHONON DECOUPLING IN NTD31 GERMANIUM <b>2002</b> ,		2
12	Observations of the downwelling far-infrared atmospheric emission at the Zugspitze observatory. <i>Earth System Science Data</i> , <b>2021</b> , 13, 4303-4312	10.5	2
11	Scientific analysis underpinning the multidisciplinary project "The Leman Album: an Enhanced Facsimile" <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	1
10	A Dry Dilution Refrigerator for the Test of CUORE Components. <i>Journal of Low Temperature Physics</i> , <b>2009</b> , 157, 541-549	1.3	1
9	New CUORICINO results and status of CUORE. <i>Physics of Atomic Nuclei</i> , <b>2006</b> , 69, 2083-2089	0.4	1
8	Innovations in low-temperature calorimeters: surface sensitive bolometers for background rejection and capacitive bolometers for higher energy resolution <b>2004</b> , 5540, 165		1
7	First results of the CUORICINO experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2005</b> , 138, 210-213		1
6	Spectral Imaging and Archival Data in Analysing Madonna of the Rabbit Paintings by Manet and Titian. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 7530-7534	3.6	0
5	Bolometers in magnetic field: Use of NTD Ge sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 575, 433-438 <sup>1.2</sup>		0
4	Design and performance of an immersable low-temperature pressure gauge. <i>Cryogenics</i> , <b>2000</b> , 40, 437-448		0
3	Comparison of mid-latitude single- and mixed-phase cloud optical depth from co-located infrared spectrometer and backscatter lidar measurements. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6749-6758 <sup>0</sup>		0
2	The CUORICINO <sup>130</sup> Te $\beta\beta$ decay experiment and a new limit on $(T_{\beta\beta}^{\text{eff}})^{-2}$ ( $\beta\beta$ ). <i>Physics of Atomic Nuclei</i> , <b>2004</b> , 67, 1220-1226 <sup>0.4</sup>		0.4
1	Multispectral IR Reflectography for Painting Analysis <b>2018</b> , 33-47		