

Stefano Dell'Oro

List of Publications by Year in descending order

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Version: 2024-02-01

62

papers

2,133

citations

471509

17

h-index

223800

46

g-index

62

all docs

62

docs citations

62

times ranked

3342

citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | CUORE opens the door to tonne-scale cryogenics experiments. <i>Progress in Particle and Nuclear Physics</i> , 2022, 122, 103902. | 14.4 | 16 |
| 2 | Search for Majorana neutrinos exploiting millikelvin cryogenics with CUORE. <i>Nature</i> , 2022, 604, 53-58. | 27.8 | 74 |
| 3 | Expected sensitivity to ^{128}Te neutrinoless double beta decay with the CUORE TeO ₂ cryogenic bolometers. <i>Journal of Low Temperature Physics</i> , 2022, 209, 788-795. | 1.4 | 1 |
| 4 | Characterization of cubic Li ₂ MoO ₄ crystals for the CUPID experiment. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 21 |
| 5 | Discovery probabilities of Majorana neutrinos based on cosmological data. <i>Physical Review D</i> , 2021, 103, . | 4.7 | 4 |
| 6 | Measurement of the $\frac{1}{2}\nu_1\frac{1}{2}\nu_2$ Decay Half-Life of ^{130}Te . <i>Physical Review D</i> , 2021, 103, . | 7.8 | 29 |
| 7 | Search for double-beta decay of ^{130}Te to the 0^+ states of ^{130}Xe with CUORE. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 6 |
| 8 | Optimization of a single module of CUPID. <i>Journal of Physics: Conference Series</i> , 2021, 2156, 012228. | 0.4 | 0 |
| 9 | Searching for New Physics in two-neutrino double beta decay with CUPID. <i>Journal of Physics: Conference Series</i> , 2021, 2156, 012233. | 0.4 | 1 |
| 10 | CUORE: The first bolometric experiment at the ton scale for the search for neutrino-less double beta decay. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 958, 162440. | 1.6 | 2 |
| 11 | Lowering the Energy Threshold of the CUORE Experiment: Benefits in the Surface Alpha Events Reconstruction. <i>Journal of Low Temperature Physics</i> , 2020, 200, 321-330. | 1.4 | 4 |
| 12 | Improved Limit on Neutrinoless Double-Beta Decay in CUORE. <i>Physical Review Letters</i> , 2020, 124, 122501. | 7.8 | 133 |
| 13 | First results from the CUORE experiment. <i>Journal of Physics: Conference Series</i> , 2020, 1342, 012002. | 0.4 | 1 |
| 14 | Initial performance of the CUORE detector. <i>Journal of Physics: Conference Series</i> , 2020, 1342, 012114. | 0.4 | 0 |
| 15 | The CUORE Detector and Results. <i>Journal of Low Temperature Physics</i> , 2020, 199, 519-528. | 1.4 | 14 |
| 16 | Perspectives of lowering CUORE thresholds with Optimum Trigger. <i>Journal of Physics: Conference Series</i> , 2020, 1643, 012020. | 0.4 | 1 |
| 17 | Status and results from the CUORE experiment. <i>International Journal of Modern Physics A</i> , 2020, 35, 2044016. | 1.5 | 0 |
| 18 | Results from the CUORE experiment. <i>Journal of Physics: Conference Series</i> , 2019, 1137, 012052. | 0.4 | 0 |

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|----|---|-----|-----------|
| 19 | The CUORE cryostat: An infrastructure for rare event searches at millikelvin temperatures. Cryogenics, 2019, 102, 9-21. | 1.7 | 38 |
| 20 | Double-beta decay of ^{130}Te to the first excited state of ^{130}Xe with CUORE-0. European Physical Journal C, 2019, 79, 1. | 3.9 | 10 |
| 21 | Empirical inference on the Majorana mass of the ordinary neutrinos. Physical Review D, 2019, 100, . | 4.7 | 7 |
| 22 | Neutrinoless Double Beta Decay Experiments With TeO ₂ Low-Temperature Detectors. Frontiers in Physics, 2019, 7, . | 2.1 | 20 |
| 23 | CUORE: The first bolometric experiment at the ton scale for rare decay searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 158-161. | 1.6 | 0 |
| 24 | Results from the Cuore Experiment. Universe, 2019, 5, 10. | 2.5 | 5 |
| 25 | Study of rare nuclear processes with CUORE. International Journal of Modern Physics A, 2018, 33, 1843002. First Results from CUORE: A Search for Lepton Number Violation via mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0 \langle / \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \hat{1}/2 \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{1}^2 \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{1}^2 \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle$ | 1.5 | 11 |
| 26 | Decay of Te $\text{display}=\text{"inline"}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Te} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mp} \rangle 130 \langle / \text{mml:mp} \rangle \langle / \text{mml:mmultiscripts} \rangle \langle / \text{mml:mrow} \rangle$ Search for creation of electrons in lab. Journal of Physics: Conference Series, 2018, 1056, 012059. | 7.8 | 246 |
| 27 | The CUORE and CUORE-0 experiments at LNGS. Journal of Physics: Conference Series, 2018, 1056, 012009. | 0.4 | 0 |
| 28 | Contributed Review: The saga of neutrinoless double beta decay search with TeO ₂ thermal detectors. Review of Scientific Instruments, 2018, 89, 121502. | 1.3 | 17 |
| 29 | The CUORE Cryostat. Journal of Low Temperature Physics, 2018, 193, 867-875. | 1.4 | 11 |
| 30 | Search for neutrinoless $\beta^2+\text{EC}$ decay of Te120 with CUORE-0. Physical Review C, 2018, 97, . | 2.9 | 15 |
| 31 | Measurement of the two-neutrino double-beta decay half-life of ^{130}Te with the CUORE-0 experiment. European Physical Journal C, 2017, 77, 1. | 3.9 | 73 |
| 32 | The CUORE cryostat and its bolometric detector. Journal of Instrumentation, 2017, 12, C02055-C02055. | 1.2 | 2 |
| 33 | Lowering the CUORE energy threshold. Journal of Physics: Conference Series, 2017, 888, 012047. | 0.4 | 0 |
| 34 | Results from CUORE and CUORE-0. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 35 | The projected background for the CUORE experiment. European Physical Journal C, 2017, 77, 1. | 3.9 | 90 |

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|----|--|----------|-----------|
| 37 | CUORE sensitivity to $\Omega^0 \rightarrow \eta\eta$ decay. European Physical Journal C, 2017, 77, 1. | 3.9 | 31 |
| 38 | Low energy analysis techniques for CUORE. European Physical Journal C, 2017, 77, 1. | 3.9 | 17 |
| 39 | The CUORE cryostat: a 10 mK infrastructure for large bolometric arrays. Journal of Physics: Conference Series, 2017, 888, 012235. | 0.4 | 2 |
| 40 | The CUORE and CUORE-0 experiments at LNGS. EPJ Web of Conferences, 2017, 164, 07047. | 0.3 | 0 |
| 41 | Status and prospects for CUORE. Journal of Physics: Conference Series, 2017, 888, 012034. | 0.4 | 3 |
| 42 | The Cryogenic Underground Observatory for Rare Events: Status and Prospects. , 2017, , . | | 0 |
| 43 | Neutrinoless Double Beta Decay: 2015 Review. Advances in High Energy Physics, 2016, 2016, 1-37. | 1.1 | 292 |
| 44 | Results from the CUORE-0 experiment. Journal of Physics: Conference Series, 2016, 718, 062007. | 0.4 | 1 |
| 45 | Recent results from cosmology and neutrinoless double beta decay. Journal of Physics: Conference Series, 2016, 718, 062012. | 0.4 | 0 |
| 46 | The CUORE Cryostat: A 1-Ton Scale Setup for Bolometric Detectors. Journal of Low Temperature Physics, 2016, 184, 590-596. | 1.4 | 13 |
| 47 | Status of the CUORE and results from the CUORE-0 neutrinoless double beta decay experiments. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1719-1725. Analysis techniques for the evaluation of the neutrinoless double- β decay lifetime | 0.5 | 4 |
| 48 | $\text{xmlns:mml} = "http://www.w3.org/1998/Math/MathML"$ $<\mml:mi>T_{e^-}</\mml:mi>$ $<\mml:math>\text{with the CUORE-0 detector.}$ | $^{2.9}$ | 64 |
| 49 | Physical Review C, 2016, 93, . A facility to search for hidden particles at the CERN SPS: the SHiP physics case. Reports on Progress in Physics, 2016, 79, 124201. | 20.1 | 496 |
| 50 | CUORE-0 detector: design, construction and operation. Journal of Instrumentation, 2016, 11, P07009-P07009. | 1.2 | 64 |
| 51 | The CUORE cryostat: commissioning and performance. Journal of Physics: Conference Series, 2016, 718, 062054. | 0.4 | 4 |
| 52 | Young Researcher Meeting, L'Aquila 2015. Journal of Physics: Conference Series, 2016, 689, 011001. | 0.4 | 0 |
| 53 | Search for Neutrinoless Double-Beta Decay of mml:math $\text{xmlns:mml} = "http://www.w3.org/1998/Math/MathML"$ $\text{display} = "inline"$ $<\mml:mrow><\mml:mmultiscripts><\mml:mi>T_{e^-}</\mml:mi></\mml:mrow><\mml:mprescripts>$ $<\mml:mi>T_{e^-}</\mml:mi></\mml:mprescripts>$ $<\mml:math>\text{with the CUORE-0 detector.}$ | $^{7.8}$ | 189 |
| 54 | Physical Review Letters, 2015, 115, 102502. Results of CUORE-0 and prospects for the CUORE experiment. Nuclear and Particle Physics Proceedings, 2015, 265-266, 73-76. | 0.5 | 2 |

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|----|--|-----|-----------|
| 55 | CUORE-0 results and prospects for the CUORE experiment. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 56 | First neutrinoless double beta decay results from CUORE-0. AIP Conference Proceedings, 2015, , . | 0.4 | 1 |
| 57 | The contribution of light Majorana neutrinos to neutrinoless double beta decay and cosmology. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 023-023. | 5.4 | 28 |
| 58 | Neutrinoless double-beta decay search with CUORE and CUORE-0 experiments. EPJ Web of Conferences, 2015, 90, 03004. | 0.3 | 1 |
| 59 | The CUORE and CUORE-0 experiments at Gran Sasso. EPJ Web of Conferences, 2015, 95, 04024. | 0.3 | 1 |
| 60 | Neutrinoless double beta decay: expectations and uncertainties. Nuclear and Particle Physics Proceedings, 2015, 265-266, 31-33. | 0.5 | 4 |
| 61 | New expectations and uncertainties on neutrinoless double beta decay. Physical Review D, 2014, 90, . | 4.7 | 62 |
| 62 | New results from the CUORE experiment. International Journal of Modern Physics A, 0, , . | 1.5 | 0 |