

Caterina Braggio

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,325
citations

361413

20
h-index

361022

35
g-index

68
all docs

68
docs citations

68
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	High- Q Microwave Dielectric Resonator for Axion Dark-Matter Haloscopes. Physical Review Applied, 2022, 17, .	3.8	10
2	Searching for dark matter through magnetized media: The QUAX proposal of a ferromagnetic axion haloscope. , 2022, , .		0
3	Spectroscopy of Alkali Atoms in Solid Matrices of Rare Gases: Experimental Results and Theoretical Analysis. Applied Sciences (Switzerland), 2022, 12, 6492.	2.5	5
4	Realization of a high quality factor resonator with hollow dielectric cylinders for axion searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164641.	1.6	21
5	Cascade superfluorescence in Er:YLF. Physical Review Research, 2021, 3, .	3.6	9
6	Direct excitation of the magnetisation in photon-magnon hybrid systems with an infrared laser pulse. Measurement Science and Technology, 2021, 32, 055903.	2.6	1
7	Search for invisible axion dark matter of mass $m < 4.7 \times 10^{-7} \text{ eV}$ with the QUAX α €“ Physical Review D, 2021, 103, .	4.7	78
8	Coherent coupling between multiple ferrimagnetic spheres and a microwave cavity at millikelvin temperatures. Physical Review B, 2021, 104, .	3.2	12
9	Particle detection in rare gas solids: DEMIURGOS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162434.	1.6	6
10	High infrared light yield of Erbium-doped fluoride crystals. Journal of Luminescence, 2020, 219, 116883.	3.1	1
11	Cavity magnon polariton based precision magnetometry. Applied Physics Letters, 2020, 117, .	3.3	20
12	Magnon-driven dynamics of a hybrid system excited with ultrafast optical pulses. Communications Physics, 2020, 3, .	5.3	15
13	High quality factor photonic cavity for dark matter axion searches. Review of Scientific Instruments, 2020, 91, 094701.	1.3	12
14	X-ray detection by direct modulation of losses in a laser cavity. Applied Physics Letters, 2020, 117, 234101.	3.3	0
15	Axion Search with a Quantum-Limited Ferromagnetic Haloscope. Physical Review Letters, 2020, 124, 171801.	7.8	92
16	A feasibility study for a low energy threshold particle detector in a xenon crystal. Journal of Instrumentation, 2020, 15, C03004-C03004.	1.2	3
17	Spontaneous formation of a macroscopically extended coherent state. Physical Review Research, 2020, 2, .	3.6	9
18	New ideas on prospective low energy threshold detectors for dark matter searches. International Journal of Modern Physics Conference Series, 2020, 50, 2060009.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Operation of a Ferromagnetic Axion Haloscope. Springer Proceedings in Physics, 2020, , 97-103.	0.2	1
20	GaAs as a Bright Cryogenic Scintillator for the Detection of Low-Energy Electron Recoils From MeV/c^2 Dark Matter. IEEE Transactions on Nuclear Science, 2019, 66, 2333-2337.	2.0	3
21	Galactic axions search with a superconducting resonant cavity. Physical Review D, 2019, 99, .	4.7	98
22	Novel approaches in low energy threshold detectors for Dark Matter searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 244-246.	1.6	2
23	Microwave Losses in a DC Magnetic Field in Superconducting Cavities for Axion Studies. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	22
24	Dark matter search by laser spectroscopy. , 2019, , .		0
25	Operation of a ferromagnetic axion haloscope at $m_a = 58 \mu\text{eV}$. European Physical Journal C, 2018, 78, 1.	3.9	51
26	Generation of microwave fields in cavities with laser-excited nonlinear media: competition between the second- and third-order optical nonlinearities. Journal of Optics (United Kingdom), 2018, 20, 095502.	2.2	3
27	Searching Axions through Coupling with Spin: The QUAX Experiment. Springer Proceedings in Physics, 2018, , 143-150.	0.2	1
28	The QUAX-g experiment to search for monopole-dipole Axion interaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 842, 109-113.	1.6	22
29	Optical Manipulation of a Magnon-Photon Hybrid System. Physical Review Letters, 2017, 118, 107205.	7.8	46
30	Searching for galactic axions through magnetized media: The QUAX proposal. Physics of the Dark Universe, 2017, 15, 135-141.	4.9	127
31	Cathodo- and radioluminescence of Tm^{3+} : YAG and Nd^{3+} : YAG in an extended wavelength range. Journal of Luminescence, 2017, 190, 29-36.	3.1	8
32	A new technique for infrared scintillation measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 855, 13-15.	1.6	3
33	Improved constraints on monopole-dipole interaction mediated by pseudo-scalar bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 677-680.	4.1	34
34	Axion dark matter detection by laser induced fluorescence in rare-earth doped materials. Scientific Reports, 2017, 7, 15168.	3.3	25
35	Experimental setup for the growth of solid crystals of inert gases for particle detection. Review of Scientific Instruments, 2017, 88, 113303.	1.3	7
36	New detectors for axions. , 2017, , .		0

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37	The QUAX proposal: a search of galactic axion with magnetic materials. Journal of Physics: Conference Series, 2016, 718, 042051.	0.4	20
38	Microwave emission by nonlinear crystals irradiated with a high-intensity, mode-locked laser. Journal of Optics (United Kingdom), 2016, 18, 065503.	2.2	2
39	Particle detection through the quantum counter concept in YAG:Er ³⁺ . Applied Physics Letters, 2015, 107, .	3.3	12
40	Axion dark matter detection by laser spectroscopy of ultracold molecular oxygen: a proposal. New Journal of Physics, 2015, 17, 113025.	2.9	21
41	Microwave signal generation based on the interaction of mode-locked laser pulses with a nonlinear optical crystal. , 2014, , .		0
42	A contactless microwave-based diagnostic tool for high repetition rate laser systems. Review of Scientific Instruments, 2014, 85, 023105.	1.3	5
43	Optomechanical Rydberg-Atom Excitation via Dynamic Casimir-Polder Coupling. Physical Review Letters, 2014, 113, 023601.	7.8	31
44	Laser-induced microwave generation with nonlinear optical crystals. , 2014, , .		1
45	Large area photodetector based on microwave cavity perturbation techniques. Journal of Applied Physics, 2014, 116, 044513.	2.5	1
46	Generation of microwave radiation by nonlinear interaction of a high-power, high-repetition rate, 1064-nm laser in KTiOPO ₄ crystals. Optics Letters, 2013, 38, 4465.	3.3	7
47	The measurement of a single-mode thermal field with a microwave cavity parametric amplifier. New Journal of Physics, 2013, 15, 013044.	2.9	5
48	Experimental study of microwave photon statistics under parametric amplification from a single-mode thermal state in a cavity. Physical Review A, 2013, 88, .	2.5	3
49	An active electron polarized scintillating GSO target for neutrino physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 335-340.	1.6	13
50	A Re-Entrant MgB_2 Cavity for Dynamic Casimir Experiment. IEEE Transactions on Applied Superconductivity, 2011, 21, 745-747.	1.7	9
51	Design and Implementation of Component Circuits of an SFQ Half-Precision Floating-Point Adder Using 10-kA/cm ² Nb Process. IEEE Transactions on Applied Superconductivity, 2011, 21, 827-830.	1.7	9
52	A laser system for the parametric amplification of electromagnetic fields in a microwave cavity. Review of Scientific Instruments, 2011, 82, 115107.	1.3	12
53	MIR: An experiment for the measurement of the dynamical Casimir effect. Journal of Physics: Conference Series, 2009, 161, 012028.	0.4	40
54	Characterization of a low noise microwave receiver for the detection of vacuum photons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 451-455.	1.6	14

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55	Large volume cryogenic silicon detectors. Nuclear Physics, Section B, Proceedings Supplements, 2009, 197, 78-82.	0.4	0
56	Laser system generating 250-mJ bunches of 5-GHz repetition rate, 12-ps pulses. Optics Express, 2008, 16, 15811.	3.4	14
57	MIR status report: an experiment for the measurement of the dynamical Casimir effect. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 164024.	2.1	59
58	PHOTON GENERATION FROM THE VACUUM: AN EXPERIMENT TO DETECT THE DCE. , 2008, , .		0
59	Reply to the Comment by W.-J. Kim et al.. Europhysics Letters, 2007, 78, 21003.	2.0	4
60	One-cm-thick Si detector at LHe temperature. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 1327-1330.	1.6	3
61	Resonance frequency shift in a cavity with a thin conducting film near a conducting wall. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 363, 33-37.	2.1	9
62	High-gain diode-pumped amplifier for generation of microjoule-level picosecond pulses. Optics Express, 2006, 14, 9244.	3.4	23
63	Massive silicon or germanium detectors at cryogenic temperature. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 412-415.	1.6	7
64	MIR: A PROPOSAL FOR THE MEASUREMENT OF THE NON-STATIONARY CASIMIR EFFECT. , 2006, , .		0
65	A novel experimental approach for the detection of the dynamical Casimir effect. Europhysics Letters, 2005, 70, 754-760.	2.0	145
66	Multi-GHz tunable-repetition-rate mode-locked Nd:GdVO4 laser. Optics Express, 2005, 13, 5302.	3.4	34
67	Semiconductor microwave mirror for a measurement of the dynamical Casimir effect. Review of Scientific Instruments, 2004, 75, 4967-4970.	1.3	64