Eugenio Monticone

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4438901/publications.pdf

Version: 2024-02-01

129 papers	933 citations	516710 16 h-index	580821 25 g-index
129 all docs	129 docs citations	129 times ranked	875 citing authors

#	Article	IF	Citations
1	Simulation Software for Transition-Edge Sensor Performance Prediction. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-6.	1.7	0
2	Investigation of the Superconducting Ti/PdAu Bilayer Films for Transition Edge Sensors. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	0
3	Implementation and optimization of the PTOLEMY transverse drift electromagnetic filter. Journal of Instrumentation, 2022, 17, P05021.	1.2	10
4	Ti/Au Ultrathin Films For TES Application. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	3
5	Influence of the Interface Composition to the Superconductivity of Ti/PdAu Films. Nanomaterials, 2021, 11, 39.	4.1	3
6	Iron-Based Superconducting Nanowires: Electric Transport and Voltage-Noise Properties. Nanomaterials, 2020, 10, 862.	4.1	15
7	TES Microcalorimeters for PTOLEMY. Journal of Low Temperature Physics, 2020, 199, 138-142.	1.4	3
8	Development of a Josephson junction based single photon microwave detector for axion detection experiments. Journal of Physics: Conference Series, 2020, 1559, 012020.	0.4	10
9	Status of the SIMP Project: Toward the Single Microwave Photon Detection. Journal of Low Temperature Physics, 2020, 199, 348-354.	1.4	23
10	Neutrino physics with the PTOLEMY project: active neutrino properties and the light sterile case. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 047-047.	5.4	85
11	Thermal Performances of an Improved Package for Cryocooled Josephson Standards. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1264-1270.	2.5	3
12	A design for an electromagnetic filter for precision energy measurements at the tritium endpoint. Progress in Particle and Nuclear Physics, 2019, 106, 120-131.	14.4	24
13	Co-Doped BaFe₂As₂ Superconducting Nanowires for Detector Applications. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	3
14	On the Synthesis of Stepwise Quantum Waves Using a SNIS Programmable Josephson Array in a Cryocooler. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
15	Cryocooled Josephson standards for AC voltage metrology. Journal of Physics: Conference Series, 2017, 841, 012031.	0.4	1
16	Cryocooled programmable and pulse-driven Josephson voltage standards at INRiM. , 2017, , .		1
17	Realization and Characterization of Iron-Based Superconducting Nanowires for Detector Applications. , 2017, , .		0
18	Exploring High-Order Shapiro Steps for Staircase-Approximated Josephson Waves with a Dry-Cooled SNIS Programmable Array. , 2017, , .		0

#	Article	IF	Citations
19	Towards a He-Free Source of Arbitrary Quantum Voltage Signals. , 2017, , .		0
20	Aluminumâ€“Titanium Bilayer for Near-Infrared Transition Edge Sensors. Sensors, 2016, 16, 953.	3.8	15
21	Micro-SQUIDs based on MgB₂nano-bridges for NEMS readout. Superconductor Science and Technology, 2016, 29, 104008.	3.5	8
22	Tests on waveform synthesis in a new cryocooler setup. , 2016, , .		0
23	Towards joint reconstruction of noise and losses in quantum channels. Quantum Measurements and Quantum Metrology, 2016, 3, .	3.3	0
24	Cryogen-Free Operation of SNIS for AC Quantum Voltage Standards. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-3.	1.7	5
25	Reduced Active Area in Transition-Edge Sensors for Visible-NIR Photon Detection: A Comparison of Experimental Data and Two-Fluid Model. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	4
26	Temperature Stability of SNIS Josephson Arrays Between 4.2 K and Critical Temperature in Cryocooler. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	5
27	Fabrication and Characterization of Fast TESs With Small Area for Single Photon Counting. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	16
28	Tests of SNIS Josephson Arrays Cryocooler Operation. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1181-1184.	1.8	7
29	E-beam evaporated ZnO thin films: Fabrication and characterization as UV detector. European Physical Journal Plus, 2015, 130, 1.	2.6	10
30	Operation of SNIS arrays in a cryocooler. , 2014, , .		1
31	Wideband digital modular system for dynamic characterization of PJVS. , 2014, , .		6
32	Cryocooler operation of SNIS Josephson arrays for AC Voltage standards. Journal of Physics: Conference Series, 2014, 507, 042040.	0.4	0
33	Full characterization of optical Transition-Edge Sensor by impedance spectroscopy measurements in a bandwidth extending to 1 MHz. , 2013, , .		3
34	High intrinsic energy resolution photon number resolving detectors. Applied Physics Letters, 2013, 103, .	3.3	31
35	Impedance measurements for photon number resolving Transition-Edge Sensors. European Physical Journal Plus, 2012, 127, 1.	2.6	4
36	Optical Transition-Edge Sensors Single Photon Pulse Analysis. IEEE Transactions on Applied Superconductivity, 2011, 21, 285-288.	1.7	7

#	Article	IF	Citations
37	Self consistent, absolute calibration technique for photon number resolving detectors. Optics Express, 2011, 19, 23249.	3.4	42
38	Ti/Au Transition-Edge Sensors Coupled to Single Mode Optical Fibers Aligned by Si V-Groove. IEEE Transactions on Applied Superconductivity, 2011, 21, 215-218.	1.7	18
39	Mechanisms Limiting the Performance of ${m MgB}_{2}$ Polycrystalline Thin Film Microwave Resonators. IEEE Transactions on Applied Superconductivity, 2011, 21, 579-582.	1.7	4
40	Analysis of the Current Noise Produced in Stationary Conditions in MgB2 Films at Different Stages of the Superconducting Transition. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1111-1115.	1.8	2
41	Dual stage resistive transition of MgB2evidenced by noise analysis. Journal of Applied Physics, 2011, 110, 013909.	2.5	1
42	Current noise in stationary conditions in MgB<inf>2</inf> thin films. , 2011, , .		0
43	Ti/Au TES AS SUPERCONDUCTING DETECTOR FOR QUANTUM TECHNOLOGIES. International Journal of Quantum Information, 2011, 09, 405-413.	1.1	10
44	Impedance measurements on a fast transition-edge sensor for optical and near-infrared range. Superconductor Science and Technology, 2010, 23, 105012.	3.5	21
45	Experimental Sub-shot Noise Quantum Imaging versus Differential Classical Imaging. , 2010, , .		2
46	Investigation of Ti/Pd Bilayer for Single Photon Detection. IEEE Transactions on Applied Superconductivity, 2009, 19, 493-495.	1.7	79
47	Characterization of the Resistive Transition of ${m MgB}_{2}$ Nanogranular Films by Current Noise Analysis. IEEE Transactions on Applied Superconductivity, 2009, 19, 2827-2830.	1.7	0
48	Analysis Of Current Noise During The Resistive Transition Of MgB[sub 2] Thin Films Produced By The Application Of An External Magnetic Field. , 2009, , .		0
49	How to avoid reflection losses in superconducting light detectors. Journal of Modern Optics, 2009, 56, 385-389.	1.3	2
50	Local thermal bistability in MgB2 microwave coplanar resonators: Opposite jumpwise response to weak-link switching and to vortex avalanches. Applied Physics Letters, 2009, 94, .	3.3	18
51	Photon-number discriminating superconducting transition-edge sensors. Metrologia, 2009, 46, S283-S287.	1.2	24
52	Characterization and fabrication of Ti/Pd bilayers for transition-edge sensors. Journal of Physics: Conference Series, 2009, 150, 052168.	0.4	0
53	Fabrication of Au/Ti TESs for Optical Photon Counting. Journal of Low Temperature Physics, 2008, 151, 261-265.	1.4	25
54	Fabrication of superconducting MgB2nanostructures. Journal of Physics Condensed Matter, 2008, 20, 474210.	1.8	2

#	Article	IF	Citations
55	Superconducting MgB₂nanobridges and meanders obtained by an electron beam lithography-based technique on different substrates. Superconductor Science and Technology, 2008, 21, 034006.	3.5	5
56	DEVELOPMENT OF SUPERCONDUCTING SINGLE-PHOTON DETECTORS AT I.N.Ri.M.. International Journal of Quantum Information, 2007, 05, 293-298.	1.1	4
57	Superconducting ${m MgB}_{2}$ Nanostructures Fabricated by Electron Beam Lithography. IEEE Transactions on Applied Superconductivity, 2007, 17, 222-224.	1.7	10
58	Analysis And Interpretation Of Current Noise In High Tc Granular Superconductors During Their Resistive Transition. AIP Conference Proceedings, 2007, , .	0.4	0
59	Fabrication and characterization of an MgB2bolometer. Superconductor Science and Technology, 2007, 20, S403-S407.	3.5	3
60	Effects of Disorder on the Performance of Magnesium Diboride Microwave Resonators. IEEE Transactions on Applied Superconductivity, 2007, 17, 3644-3647.	1.7	3
61	Evidence of rf-driven dendritic vortex avalanches in MgB2 microwave resonators. Journal of Applied Physics, 2007, 102, 113901.	2.5	26
62	AFM analysis of MgB2 films and nanostructures. Surface Science, 2007, 601, 58-62.	1.9	10
63	Investigation of the resistive transition of MgB2thin film through current noise. Journal of Physics: Conference Series, 2006, 43, 313-316.	0.4	0
64	MgB2 Thin Films for Radiation Detectors Operating at Microwave Frequencies. AIP Conference Proceedings, 2006, , .	0.4	1
65	Recent achievements in MgB2 physics and applications: A large-area SQUID magnetometer and point-contact spectroscopy measurements. Physica C: Superconductivity and Its Applications, 2006, 435, 59-65.	1.2	5
66	Electrical and optical properties of MgB2 grown by co-evaporation method. Journal of Physics and Chemistry of Solids, 2006, 67, 305-307.	4.0	1
67	MgB2magnetometer with a directly coupled pick-up loop. Superconductor Science and Technology, 2006, 19, S303-S306.	3.5	7
68	Fabrication of superconducting MgB2 nanostructures by an electron beam lithography-based technique. Journal of Applied Physics, 2006, 99, 066115.	2.5	7
69	Effective gap at microwave frequencies inMgB2thin films with strong interband scattering. Physical Review B, 2005, 71, .	3.2	31
70	Enhancement of<tex>$rm T_rm c$</tex>in<tex>$rm MgB_2$</tex>Thin Films by Laser Local Annealing. IEEE Transactions on Applied Superconductivity, 2005, 15, 3242-3244.	1.7	1
71	Point-contact spectroscopy in MgB2: from fundamental physics to thin-film characterization. Superconductor Science and Technology, 2004, 17, S93-S100.	3.5	12
72	MgB2thin films on silicon nitride substrates prepared by anin situmethod. Superconductor Science and Technology, 2004, 17, 649-652.	3.5	18

#	Article	IF	Citations
73	Production by solid/liquid reaction and characterization of high purity MgB2 powders and thick films for superconducting application. Journal of the European Ceramic Society, 2004, 24, 1837-1840.	5.7	8
74	Current noise in MgB2 superconducting thin films. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 351-353.	1.6	0
75	Measurements and interpretation of current noise in MgB 2 superconducting thin film during the resistive transition. , 2004, 5469, 374.		1
76	Study of disorder effects on titanium films resistivity. Physica B: Condensed Matter, 2003, 329-333, 1533-1535.	2.7	0
77	Properties of bilayers based on Mo films for transition-edge sensors. IEEE Transactions on Applied Superconductivity, 2003, 13, 3292-3294.	1.7	4
78	MgB/sub 2/ superconducting films for bolometer applications. IEEE Transactions on Applied Superconductivity, 2003, 13, 3242-3244.	1.7	3
79	CORRELATION OF CRITICAL TEMPERATURES AND ELECTRICAL PROPERTIES IN TITANIUM FILMS. International Journal of Modern Physics B, 2003, 17, 948-952.	2.0	18
80	ELECTRO-THERMAL RESPONSE OF A VOLTAGE-BIASED HIGH-TC BOLOMETER. International Journal of Modern Physics B, 2003, 17, 740-744.	2.0	1
81	Quantitative magneto-optical analysis of macroscopic supercurrent flow in MgB2. Superconductor Science and Technology, 2003, 16, 199-204.	3.5	10
82	Characterization of Titanium films for low temperature detectors. , 2002, , .		1
83	Structural and electrical characterisation of Mo films for transition-edge sensors. Physica C: Superconductivity and Its Applications, 2002, 372-376, 440-443.	1.2	6
84	DEVELOPMENT OF TI BASED TRANSITION EDGE SENSORS FOR CRYOGENIC DETECTORS. , 2002, , .		4
85	Development of an AC-DC thermal converter at millivolt level operating at cryogenic temperature. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 338-341.	4.7	3
86	Fabrication and characterization of a cryogenic AC-DC converter. IEEE Transactions on Applied Superconductivity, 2001, 11, 589-592.	1.7	0
87	Antireflection coating for superconducting tunnel junction photodetectors in the visible range. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 531-538.	0.6	1
88	High-resistivity superconductor-normal-superconductor junctions for an AC Josephson voltage standard. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 965-971.	0.6	4
89	Antireflection coatings for superconducting photodetectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 461-464.	1.6	23
90	Structural and morphological properties of evaporated SiOx films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 523-529.	0.6	6

#	Article	IF	Citations
91	SUPERCONDUCTING-RESISTIVE-TRANSITION DEVICE FOR THE PRECISION MEASUREMENT OF LOW AC VOLTAGE. International Journal of Modern Physics B, 2000, 14, 3116-3121.	2.0	0
92	DEVELOPMENT OF A Nb/Al TECHNOLOGY FOR SNS JOSEPHSON JUNCTIONS. International Journal of Modern Physics B, 2000, 14, 3044-3049.	2.0	3
93	Structural and morphological properties of evaporated SiO x films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 523-529.	0.6	1
94	Antireflection coating for superconducting tunnel junction photodetectors in the visible range. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 531-538.	0.6	0
95	Roughness evolution of Nb films with thickness. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 1133-1139.	0.6	1
96	New Barriers for Fast-Switching SNS Josephson Junctions. International Journal of Modern Physics B, 1999, 13, 1259-1264.	2.0	5
97	Niobium Josephson junction bolometers for optical detection in the visible-infrared region. IEEE Transactions on Applied Superconductivity, 1999, 9, 3866-3869.	1.7	4
98	Non-equilibrium experiments in LTS Josephson double tunnel devices [Nb/Al/AlO/sub x//Nb]. IEEE Transactions on Applied Superconductivity, 1999, 9, 3974-3977.	1.7	5
99	Nb-based SNS junctions with Al and TaO/sub x/ barriers for a programmable Josephson voltage standard. IEEE Transactions on Applied Superconductivity, 1999, 9, 4245-4248.	1.7	17
100	Analysis of NB Josephson Junction Properties under Optical Irradiation. International Journal of Modern Physics B, 1999, 13, 1283-1288.	2.0	1
101	Design and fabrication of metal bolometers on high porosity silicon layers. Microelectronics Journal, 1999, 30, 1149-1154.	2.0	9
102	Properties of metal bolometers fabricated on porous silicon. Applied Surface Science, 1999, 142, 267-271.	6.1	14
103	Josephson tunnel junctions as highly sensitive photodetectors for radiometry. Metrologia, 1998, 35, 393-396.	1.2	1
104	Analysis of the interfaces of stacked Josephson junctions by atomic force microscopy. IEEE Transactions on Applied Superconductivity, 1997, 7, 2419-2422.	1.7	4
105	Magnetic field behavior of vertical stacks of Josephson junctions with large idle regions. IEEE Transactions on Applied Superconductivity, 1997, 7, 2442-2445.	1.7	0
106	Surface characterisation of electroformed mirrors for an X-ray telescope. Surface Science, 1997, 377-379, 98-102.	1.9	2
107	Structural and surface properties of sputtered Nb films for multilayer devices. Surface Science, 1997, 377-379, 1042-1045.	1.9	5
108	Superconductive thin-film devices for microwave applications. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1375-1380.	0.4	0

#	Article	IF	Citations
109	Magnetic-field dependence of the critical current of single and stacked Josephson junctions with large idle regions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1381-1387.	0.4	0
110	Properties of RF-sputtered Nb/Al-AlO/sub x//Nb Josephson SNAP junctions. IEEE Transactions on Applied Superconductivity, 1996, 6, 24-31.	1.7	15
111	Thickness dependence of electrical and structural properties of Nb thin films. Physica Status Solidi A, 1995, 151, 335-344.	1.7	4
112	Surface characterization of sputtered niobium films by scanning tunneling microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 1734.	1.6	6
113	A low background, large solid angle neutron detector for spectroscopy and dosimetry application. Sensors and Actuators A: Physical, 1994, 42, 497-502.	4.1	0
114	Characterization and performance of BGO crystals for positron emission tomography. Sensors and Actuators A: Physical, 1994, 42, 487-490.	4.1	4
115	Effect of vacuum annealing on superconducting properties of niobium films. Applied Superconductivity, 1993, 1, 845-851.	0.5	1
116	Properties of r.f. sputtered niobium thin films for metrological applications. Applied Superconductivity, 1993, 1, 1333-1340.	0.5	3
117	Properties of nickel thin films on polyimide substrata for HF bolometers. Measurement Science and Technology, 1993, 4, 1244-1248.	2.6	15
118	New development of HgI2 X-ray and soft gamma ray detector for synchrotron radiation research and dosimetry applications. Sensors and Actuators A: Physical, 1992, 32, 455-463.	4.1	2
119	Thin-film thermopiles in microcalorimeters. Sensors and Actuators A: Physical, 1991, 27, 633-636.	4.1	3
120	Construction and performance of diffused and ion-implanted silicon microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 286, 238-242.	1.6	0
121	Thermopile linearity errors in the HF-calorimeter method. Measurement: Journal of the International Measurement Confederation, 1990, 8, 146-152.	5.0	1
122	Resistive power splitter in microwave power standard calibration transfer. Measurement: Journal of the International Measurement Confederation, 1988, 6, 129-134.	5.0	1
123	A power supply with temperature and N2 level test controlled by a PC IBM-XT for a HP-Ge detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 271, 571-573.	1.6	0
124	Realization of a low noise preamplifier for low capacitance solid state detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 261, 527-532.	1.6	1
125	Hole mobility in HgI2. Solid State Communications, 1986, 59, 697-698.	1.9	1
126	Development of an ac-dc thermal converter at millivolt level operating at cryogenic temperature. , 0, , .		1

#	Article	IF	Citations
127	Development of fast-switching Nb/Al/Nb SNS junctions for the AC Josephson voltage standard. , 0, , .		2
128	Thermostatic control for high sensitivity cryogenic AC-DC thermal converters. , 0, , .		1
129	Improved IEN cryogenic system for AC-DC transfer in the 1 mV range. , 0, , .		0