Aurelio Agliolo Gallitto

List of Publications by Year
in descending order

62 papers	322 citations	1040056 9 h-index	1125743 13 g-index
62 all docs	62 docs citations	62 times ranked	204 citing authors

#	Article	IF	Citations
1	Exploring Historical Scientific Instruments by Using Mobile Media Devices. Physics Teacher, 2022, 60, 202-206.	0.3	1
2	Dynamic measurement of the elastic constant of an helicoidal spring by a smartphone. Physics Education, 2021, 56, 035010.	0.5	3
3	An approach to the Venturi effect by historical instruments. Physics Education, 2021, 56, 025007.	0.5	10
4	A study of capillarity phenomena by using a computer-based simulation approach. European Journal of Physics, 2021, 42, 055704.	0.6	4
5	High-Efficiency Multi-Junction Photovoltaic Cells in School Physics Laboratory. Physics Teacher, 2020, 58, 126-129.	0.3	3
6	Comparative study of historical woods from XIX century by thermogravimetry coupled with FTIR spectroscopy. Cellulose, 2019, 26, 8853-8865.	4.9	18
7	Computer simulations to approach surface tension by means of a simple mesoscopic mechanical model. Computer Applications in Engineering Education, 2019, 27, 1333-1342.	3.4	6
8	A mechanical model of the smartphoneâ€™s accelerometer. Physics Education, 2015, 50, 646-647.	0.5	4
9	CHP efficiency of a 2000 Ã— CPV system with reflective optics. AIP Conference Proceedings, 2015, , .	0.4	5
10	Measurement of the Convective Heat-Transfer Coefficient. Physics Teacher, 2014, 52, 109-111.	0.3	20
11	Electrical-optical characterization of multijunction solar cells under 2000X concentration. AIP Conference Proceedings, 2014, , .	0.4	7
12	Microwave Response of Coaxial Cavities Made of Bulk Magnesium Diboride. IEEE Transactions on Applied Superconductivity, 2014, 24, 13-21.	1.7	3
13	Frequency dependence of the microwave surface resistance of MgB2 by coaxial cavity resonator. Physica C: Superconductivity and Its Applications, 2014, 503, 150-153.	1.2	1
14	'Naughty cylinder' mechanical paradox. Physics Education, 2013, 48, 137-138.	0.5	2
15	An experiment on wind energy. Physics Education, 2012, 47, 755-759.	0.5	2
16	Effect of boron doping in the microwave surface resistance of neutron irradiated melt-textured Y1.6Ba2.3Cu3.3O7â^'x samples. Physica C: Superconductivity and Its Applications, 2012, 483, 71-78.	1.2	2
17	Tunable coaxial cavity resonator for linear and nonlinear microwave characterization of superconducting wires. Superconductor Science and Technology, 2011, 24, 095008.	3.5	2
18	Intergrain Effects in the AC Susceptibility ofÂPolycrystalline LaFeAsO0.94F0.06. Journal of Low Temperature Physics, 2011, 162, 40-51.	1.4	16

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19	A didactic experiment and model of a flat-plate solar collector. Physics Education, 2011, 46, 312-317.	0.5	3
20	â€˜School adopts an experimentâ€™: the photoluminescence in extra-virgin olive oil and in tonic water. Physics Education, 2011, 46, 599-603.	0.5	4
21	The double cone: a mechanical paradox or a geometrical constraint?. Physics Education, 2011, 46, 682-684.	0.5	7
22	Electromagnetic response of LaO_{0.94}F_{0.06}FeAs:ACsusceptibility and microwave surface resistance. Journal of Physics: Conference Series, 2010, 234, 012001.	0.4	3
23	Fluxon dynamics in Liâ€“Al codoped by microwave surface resistance measurements. Physica C: Superconductivity and Its Applications, 2010, 470, 907-910.	1.2	1
24	â€˜School adopts an experimentâ€™: the magnetic levitation of superconductors. Physics Education, 2010, 45, 511-515.	0.5	6
25	Field-induced suppression of the Ï€-band superconductivity and magnetic hysteresis in the microwave surface resistance of MgB2at temperatures nearTc. Superconductor Science and Technology, 2009, 22, 055010.	3.5	2
26	Microwave response of a cylindrical cavity made of bulk MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2008, 468, 66-71.	1.2	4
27	Depinning frequency in a heavily neutron-irradiated MgB2 sample. Physica C: Superconductivity and Its Applications, 2008, 468, 2372-2377.	1.2	10
28	Microwave surface resistance of pristine and neutron-irradiated MgB2 samples in magnetic field. European Physical Journal B, 2008, 63, 165-177.	1.5	6
29	Anomalous magnetic hysteresis in the microwave surface resistance of MgB2superconductor. Journal of Physics: Conference Series, 2008, 97, 012207.	0.4	3
30	A superconducting microwave cavity made of bulk MgB2. Superconductor Science and Technology, 2007, 20, L16-L19.	3.5	3
31	Effects of Weak Links in the Nonlinear Microwave Response of MgB2 Superconductor. Journal of Superconductivity and Novel Magnetism, 2007, 20, 13-20.	1.8	7
32	Microwave response of bulk MgB2samples of different granularity. Journal of Physics: Conference Series, 2006, 43, 480-483.	0.4	3
33	Near-Tc second-harmonic emission in high-density bulk MgB2 at microwave frequency. European Physical Journal B, 2006, 51, 537-542.	1.5	3
34	Critical-state effects on microwave losses in type-II superconductors. European Physical Journal B, 2006, 52, 459-463.	1.5	15
35	Magnetic hysteresis in the microwave surface resistance of Nb samples in the critical state. European Physical Journal B, 2006, 53, 315-322.	1.5	14
36	Microwave harmonic emission in MgB2 superconductor: Comparison with YBA2CU3O7. Microwave and Optical Technology Letters, 2006, 48, 2482-2486.	1.4	3

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37	Microwave second-harmonic response of ceramic MgB2 samples. Physica C: Superconductivity and Its Applications, 2005, 432, 306-314.	1.2	4
38	Surface-barrier effects in the microwave second-harmonic response of superconductors in the mixed state. European Physical Journal B, 2005, 45, 47-53.	1.5	2
39	Microwave properties of Ba $mathsf{_{0.6}}$ K $mathsf{_{0.4}}$ BiO $mathsf{_3}$ crystals. European Physical Journal B, 2004, 41, 313-318.	1.5	8
40	Time evolution of the microwave second-harmonic response of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2004, 404, 6-10.	1.2	4
41	Fluxon dynamics by microwave surface resistance measurements in MgB2. Physica C: Superconductivity and Its Applications, 2004, 404, 171-175.	1.2	3
42	Microwave surface resistance and upper-critical-field anisotropy of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2003, 384, 11-18.	1.2	4
43	THIRD-HARMONIC EMISSION IN MgB2 SUPERCONDUCTOR AT MICROWAVE FREQUENCIES. International Journal of Modern Physics B, 2003, 17, 535-541.	2.0	6
44	MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE RESISTANCE IN MgB2 SUPERCONDUCTORS. International Journal of Modern Physics B, 2002, 16, 1571-1576.	2.0	3
45	Characteristic features of the temperature dependence of the surface impedance in polycrystalline MgB 2 samples. Europhysics Letters, 2002, 58, 422-428.	2.0	10
46	Correlation between hysteresis and time decay in the microwave second-harmonic emission of superconductors in the critical state. Physica C: Superconductivity and Its Applications, 2002, 377, 171-183.	1.2	1
47	History and memory effect in the microwave second-order response of Ba0.6K0.4BiO3 crystal in the critical state. Physica C: Superconductivity and Its Applications, 2002, 369, 245-249.	1.2	2
48	Time Decay of the Nonlinear Microwave Response of Superconductors in the Critical State. Journal of Superconductivity and Novel Magnetism, 2001, 14, 85-91.	0.5	1
49	Nonlinear microwave emission in Ba0.6K0.4BiO3 crystals near Tc. Physica C: Superconductivity and Its Applications, 2000, 330, 141-149.	1.2	4
50	MICROWAVE PULSED FIELD EFFECTS ON DYNAMICS OF FLUXONS IN THE CRITICAL STATE. International Journal of Modern Physics B, 2000, 14, 2846-2851.	2.0	0
51	Transient and magnetic hysteresis in the microwave second-order response of BKBO crystals in the critical state. Europhysics Letters, 2000, 51, 571-577.	2.0	4
52	Microwave Third Harmonic Emission by Ba0.6K0.4BiO3 Crystals. International Journal of Modern Physics B, 1999, 13, 1163-1168.	2.0	2
53	Microwave second harmonic emission by Ba0.6K0.4BiO3: comparison with YBa2Cu3O7. Physica C: Superconductivity and Its Applications, 1999, 317-318, 428-431.	1.2	2
54	Harmonic emission at microwave frequencies in Ba0.6K0.4BiO3 crystals. Physica C: Superconductivity and Its Applications, 1998, 309, 8-16.	1.2	8

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55	Harmonic emission at microwave frequencies in YBa2Cu3O7 single crystals near Tc. Physica C: Superconductivity and Its Applications, 1998, 305, 75-84.	1.2	20
56	Field-induced variations of the microwave surface impedance ofYBa2Cu3O7crystals nearTc. Physical Review B, 1997, 56, 5140-5143.	3.2	12
57	Investigation of nonlinear microwave response in YBCO samples. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1151-1157.	0.4	1
58	Nonlinear effects and anisotropy in YBa2Cu3O7 single crystals near Tc. Physica C: Superconductivity and Its Applications, 1996, 259, 365-372.	1.2	7
59	Microwave magnetic-field effects in YBa2Cu3O7 single crystals near T c. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1889-1894.	0.4	0
60	A study of the upper critical field and anisotropy in YBa2Cu3O7 single crystals. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1895-1901.	0.4	2
61	Nonlinear magnetization of YBa2Cu3O7 single crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2023-2024.	1.2	2
62	Nonlinear response and complex conductivity of YBa2Cu3O7 crystals near Tc. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 97-100.	2.1	4