

Aurelio Agliolo Gallitto

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Exploring Historical Scientific Instruments by Using Mobile Media Devices. <i>Physics Teacher</i> , 2022, 60, 202-206.	0.2	1
2	Dynamic measurement of the elastic constant of an helicoidal spring by a smartphone. <i>Physics Education</i> , 2021, 56, 035010.	0.3	3
3	An approach to the Venturi effect by historical instruments. <i>Physics Education</i> , 2021, 56, 025007.	0.3	10
4	A study of capillarity phenomena by using a computer-based simulation approach. <i>European Journal of Physics</i> , 2021, 42, 055704.	0.3	4
5	High-Efficiency Multi-Junction Photovoltaic Cells in School Physics Laboratory. <i>Physics Teacher</i> , 2020, 58, 126-129.	0.2	3
6	Comparative study of historical woods from XIX century by thermogravimetry coupled with FTIR spectroscopy. <i>Cellulose</i> , 2019, 26, 8853-8865.	2.4	18
7	Computer simulations to approach surface tension by means of a simple mesoscopic mechanical model. <i>Computer Applications in Engineering Education</i> , 2019, 27, 1333-1342.	2.2	6
8	A mechanical model of the smartphone's accelerometer. <i>Physics Education</i> , 2015, 50, 646-647.	0.3	4
9	CHP efficiency of a 2000 Å— CPV system with reflective optics. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	5
10	Measurement of the Convective Heat-Transfer Coefficient. <i>Physics Teacher</i> , 2014, 52, 109-111.	0.2	20
11	Electrical-optical characterization of multijunction solar cells under 2000X concentration. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	7
12	Microwave Response of Coaxial Cavities Made of Bulk Magnesium Diboride. <i>IEEE Transactions on Applied Superconductivity</i> , 2014, 24, 13-21.	1.1	3
13	Frequency dependence of the microwave surface resistance of MgB2 by coaxial cavity resonator. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 503, 150-153.	0.6	1
14	'Naughty cylinder' mechanical paradox. <i>Physics Education</i> , 2013, 48, 137-138.	0.3	2
15	An experiment on wind energy. <i>Physics Education</i> , 2012, 47, 755-759.	0.3	2
16	Effect of boron doping in the microwave surface resistance of neutron irradiated melt-textured Y1.6Ba2.3Cu3.3O7-x samples. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 483, 71-78.	0.6	2
17	Tunable coaxial cavity resonator for linear and nonlinear microwave characterization of superconducting wires. <i>Superconductor Science and Technology</i> , 2011, 24, 095008.	1.8	2
18	Intergrain Effects in the AC Susceptibility of Polycrystalline LaFeAsO0.94F0.06. <i>Journal of Low Temperature Physics</i> , 2011, 162, 40-51.	0.6	16

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19	A didactic experiment and model of a flat-plate solar collector. <i>Physics Education</i> , 2011, 46, 312-317.	0.3	3
20	“School adopts an experiment”: the photoluminescence in extra-virgin olive oil and in tonic water. <i>Physics Education</i> , 2011, 46, 599-603.	0.3	4
21	The double cone: a mechanical paradox or a geometrical constraint?. <i>Physics Education</i> , 2011, 46, 682-684.	0.3	7
22	Electromagnetic response of $\text{LaO}_{0.94}\text{F}_{0.06}\text{FeAs}$ susceptibility and microwave surface resistance. <i>Journal of Physics: Conference Series</i> , 2010, 234, 012001.	0.3	3
23	Fluxon dynamics in Al codoped by microwave surface resistance measurements. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 907-910.	0.6	1
24	“School adopts an experiment”: the magnetic levitation of superconductors. <i>Physics Education</i> , 2010, 45, 511-515.	0.3	6
25	Field-induced suppression of the γ -band superconductivity and magnetic hysteresis in the microwave surface resistance of MgB_2 at temperatures near T_c . <i>Superconductor Science and Technology</i> , 2009, 22, 055010.	1.8	2
26	Microwave response of a cylindrical cavity made of bulk MgB_2 superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 66-71.	0.6	4
27	Depinning frequency in a heavily neutron-irradiated MgB_2 sample. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 2372-2377.	0.6	10
28	Microwave surface resistance of pristine and neutron-irradiated MgB_2 samples in magnetic field. <i>European Physical Journal B</i> , 2008, 63, 165-177.	0.6	6
29	Anomalous magnetic hysteresis in the microwave surface resistance of MgB_2 superconductor. <i>Journal of Physics: Conference Series</i> , 2008, 97, 012207.	0.3	3
30	A superconducting microwave cavity made of bulk MgB_2 . <i>Superconductor Science and Technology</i> , 2007, 20, L16-L19.	1.8	3
31	Effects of Weak Links in the Nonlinear Microwave Response of MgB_2 Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 20, 13-20.	0.8	7
32	Microwave response of bulk MgB_2 samples of different granularity. <i>Journal of Physics: Conference Series</i> , 2006, 43, 480-483.	0.3	3
33	Near- T_c second-harmonic emission in high-density bulk MgB_2 at microwave frequency. <i>European Physical Journal B</i> , 2006, 51, 537-542.	0.6	3
34	Critical-state effects on microwave losses in type-II superconductors. <i>European Physical Journal B</i> , 2006, 52, 459-463.	0.6	15
35	Magnetic hysteresis in the microwave surface resistance of Nb samples in the critical state. <i>European Physical Journal B</i> , 2006, 53, 315-322.	0.6	14
36	Microwave harmonic emission in MgB_2 superconductor: Comparison with $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 2482-2486.	0.9	3

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37	Microwave second-harmonic response of ceramic MgB2 samples. Physica C: Superconductivity and Its Applications, 2005, 432, 306-314.	0.6	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.	0.6	2
39	Microwave properties of Ba _{0.6} K _{0.4} BiO ₃ crystals. European Physical Journal B, 2004, 41, 313-318.	0.6	8
40	Time evolution of the microwave second-harmonic response of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2004, 404, 6-10.	0.6	4
41	Fluxon dynamics by microwave surface resistance measurements in MgB2. Physica C: Superconductivity and Its Applications, 2004, 404, 171-175.	0.6	3
42	Microwave surface resistance and upper-critical-field anisotropy of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2003, 384, 11-18.	0.6	4
43	THIRD-HARMONIC EMISSION IN MgB2 SUPERCONDUCTOR AT MICROWAVE FREQUENCIES. International Journal of Modern Physics B, 2003, 17, 535-541.	1.0	6
44	MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE RESISTANCE IN MgB2 SUPERCONDUCTORS. International Journal of Modern Physics B, 2002, 16, 1571-1576.	1.0	3
45	Characteristic features of the temperature dependence of the surface impedance in polycrystalline MgB ₂ samples. Europhysics Letters, 2002, 58, 422-428.	0.7	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.	0.6	1
47	History and memory effect in the microwave second-order response of Ba _{0.6} K _{0.4} BiO ₃ crystal in the critical state. Physica C: Superconductivity and Its Applications, 2002, 369, 245-249.	0.6	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 Ba _{0.6} K _{0.4} BiO ₃ crystals near T _c . Physica C: Superconductivity and Its Applications, 2000, 330, 141-149.	0.6	4
50	MICROWAVE PULSED FIELD EFFECTS ON DYNAMICS OF FLUXONS IN THE CRITICAL STATE. International Journal of Modern Physics B, 2000, 14, 2846-2851.	1.0	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.	0.7	4
52	Microwave Third Harmonic Emission by Ba _{0.6} K _{0.4} BiO ₃ Crystals. International Journal of Modern Physics B, 1999, 13, 1163-1168.	1.0	2
53	Microwave second harmonic emission by Ba _{0.6} K _{0.4} BiO ₃ : comparison with YBa ₂ Cu ₃ O ₇ . Physica C: Superconductivity and Its Applications, 1999, 317-318, 428-431.	0.6	2
54	Harmonic emission at microwave frequencies in Ba _{0.6} K _{0.4} BiO ₃ crystals. Physica C: Superconductivity and Its Applications, 1998, 309, 8-16.	0.6	8

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55	Harmonic emission at microwave frequencies in YBa ₂ Cu ₃ O ₇ single crystals near T _c . Physica C: Superconductivity and Its Applications, 1998, 305, 75-84.	0.6	20
56	Field-induced variations of the microwave surface impedance of YBa ₂ Cu ₃ O ₇ crystals near T _c . Physical Review B, 1997, 56, 5140-5143.	1.1	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 YBa ₂ Cu ₃ O ₇ single crystals near T _c . Physica C: Superconductivity and Its Applications, 1996, 259, 365-372.	0.6	7
59	Microwave magnetic-field effects in YBa ₂ Cu ₃ O ₇ 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 YBa ₂ Cu ₃ O ₇ 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 YBa ₂ Cu ₃ O ₇ single crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2023-2024.	0.6	2
62	Nonlinear response and complex conductivity of YBa ₂ Cu ₃ O ₇ crystals near T _c . Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 97-100.	0.9	4