

# Aurelio Agliolo Gallitto

## List of Publications by Year in descending order

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62  
papers

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citations

1039406

9  
h-index

1125271

13  
g-index

62  
all docs

62  
docs citations

62  
times ranked

204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic emission at microwave frequencies in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single crystals near T <sub>c</sub> . Physica C: Superconductivity and Its Applications, 1998, 305, 75-84.	0.6	20
2	Measurement of the Convective Heat-Transfer Coefficient. Physics Teacher, 2014, 52, 109-111.	0.2	20
3	Comparative study of historical woods from XIX century by thermogravimetry coupled with FTIR spectroscopy. Cellulose, 2019, 26, 8853-8865.	2.4	18
4	Intergrain Effects in the AC Susceptibility of Polycrystalline LaFeAsO <sub>0.94</sub> F <sub>0.06</sub> . Journal of Low Temperature Physics, 2011, 162, 40-51.	0.6	16
5	Critical-state effects on microwave losses in type-II superconductors. European Physical Journal B, 2006, 52, 459-463.	0.6	15
6	Magnetic hysteresis in the microwave surface resistance of Nb samples in the critical state. European Physical Journal B, 2006, 53, 315-322.	0.6	14
7	Field-induced variations of the microwave surface impedance of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> crystals near T <sub>c</sub> . Physical Review B, 1997, 56, 5140-5143.	1.1	12
8	Characteristic features of the temperature dependence of the surface impedance in polycrystalline MgB <sub>2</sub> samples. Europhysics Letters, 2002, 58, 422-428.	0.7	10
9	Depinning frequency in a heavily neutron-irradiated MgB <sub>2</sub> sample. Physica C: Superconductivity and Its Applications, 2008, 468, 2372-2377.	0.6	10
10	An approach to the Venturi effect by historical instruments. Physics Education, 2021, 56, 025007.	0.3	10
11	Harmonic emission at microwave frequencies in Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> crystals. Physica C: Superconductivity and Its Applications, 1998, 309, 8-16.	0.6	8
12	Microwave properties of Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> crystals. European Physical Journal B, 2004, 41, 313-318.	0.6	8
13	Nonlinear effects and anisotropy in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single crystals near T <sub>c</sub> . Physica C: Superconductivity and Its Applications, 1996, 259, 365-372.	0.6	7
14	Effects of Weak Links in the Nonlinear Microwave Response of MgB <sub>2</sub> Superconductor. Journal of Superconductivity and Novel Magnetism, 2007, 20, 13-20.	0.8	7
15	The double cone: a mechanical paradox or a geometrical constraint?. Physics Education, 2011, 46, 682-684.	0.3	7
16	Electrical-optical characterization of multijunction solar cells under 2000X concentration. AIP Conference Proceedings, 2014, .	0.3	7
17	THIRD-HARMONIC EMISSION IN MgB <sub>2</sub> SUPERCONDUCTOR AT MICROWAVE FREQUENCIES. International Journal of Modern Physics B, 2003, 17, 535-541.	1.0	6
18	Microwave surface resistance of pristine and neutron-irradiated MgB <sub>2</sub> samples in magnetic field. European Physical Journal B, 2008, 63, 165-177.	0.6	6

#	ARTICLE	IF	CITATIONS
19	â€œSchool adopts an experimentâ€™: the magnetic levitation of superconductors. Physics Education, 2010, 45, 511-515.	0.3	6
20	Computer simulations to approach surface tension by means of a simple mesoscopic mechanical model. Computer Applications in Engineering Education, 2019, 27, 1333-1342.	2.2	6
21	CHP efficiency of a 2000 Å— CPV system with reflective optics. AIP Conference Proceedings, 2015, , .	0.3	5
22	Nonlinear response and complex conductivity of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> crystals near T <sub>c</sub> . Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 97-100.	0.9	4
23	Nonlinear microwave emission in Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> crystals near T <sub>c</sub> . Physica C: Superconductivity and Its Applications, 2000, 330, 141-149.	0.6	4
24	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
25	Microwave surface resistance and upper-critical-field anisotropy of MgB <sub>2</sub> superconductor. Physica C: Superconductivity and Its Applications, 2003, 384, 11-18.	0.6	4
26	Time evolution of the microwave second-harmonic response of MgB <sub>2</sub> superconductor. Physica C: Superconductivity and Its Applications, 2004, 404, 6-10.	0.6	4
27	Microwave second-harmonic response of ceramic MgB <sub>2</sub> samples. Physica C: Superconductivity and Its Applications, 2005, 432, 306-314.	0.6	4
28	Microwave response of a cylindrical cavity made of bulk MgB <sub>2</sub> superconductor. Physica C: Superconductivity and Its Applications, 2008, 468, 66-71.	0.6	4
29	â€œSchool adopts an experimentâ€™: the photoluminescence in extra-virgin olive oil and in tonic water. Physics Education, 2011, 46, 599-603.	0.3	4
30	A mechanical model of the smartphoneâ€™s accelerometer. Physics Education, 2015, 50, 646-647.	0.3	4
31	A study of capillarity phenomena by using a computer-based simulation approach. European Journal of Physics, 2021, 42, 055704.	0.3	4
32	MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE RESISTANCE IN MgB <sub>2</sub> SUPERCONDUCTORS. International Journal of Modern Physics B, 2002, 16, 1571-1576.	1.0	3
33	Fluxon dynamics by microwave surface resistance measurements in MgB <sub>2</sub> . Physica C: Superconductivity and Its Applications, 2004, 404, 171-175.	0.6	3
34	Microwave response of bulk MgB <sub>2</sub> samples of different granularity. Journal of Physics: Conference Series, 2006, 43, 480-483.	0.3	3
35	Near-T <sub>c</sub> second-harmonic emission in high-density bulk MgB <sub>2</sub> at microwave frequency. European Physical Journal B, 2006, 51, 537-542.	0.6	3
36	Microwave harmonic emission in MgB <sub>2</sub> superconductor: Comparison with YBA <sub>2</sub> CU <sub>3</sub> O <sub>7</sub> . Microwave and Optical Technology Letters, 2006, 48, 2482-2486.	0.9	3

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37	A superconducting microwave cavity made of bulk MgB <sub>2</sub> . Superconductor Science and Technology, 2007, 20, L16-L19.	1.8	3
38	Anomalous magnetic hysteresis in the microwave surface resistance of MgB <sub>2</sub> superconductor. Journal of Physics: Conference Series, 2008, 97, 012207.	0.3	3
39	Electromagnetic response of LaO <sub>0.94</sub> F <sub>0.06</sub> FeAs: AC susceptibility and microwave surface resistance. Journal of Physics: Conference Series, 2010, 234, 012001.	0.3	3
40	A didactic experiment and model of a flat-plate solar collector. Physics Education, 2011, 46, 312-317.	0.3	3
41	Microwave Response of Coaxial Cavities Made of Bulk Magnesium Diboride. IEEE Transactions on Applied Superconductivity, 2014, 24, 13-21.	1.1	3
42	High-Efficiency Multi-Junction Photovoltaic Cells in School Physics Laboratory. Physics Teacher, 2020, 58, 126-129.	0.2	3
43	Dynamic measurement of the elastic constant of an helicoidal spring by a smartphone. Physics Education, 2021, 56, 035010.	0.3	3
44	A study of the upper critical field and anisotropy in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> 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
45	Nonlinear magnetization of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2023-2024.	0.6	2
46	Microwave Third Harmonic Emission by Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> Crystals. International Journal of Modern Physics B, 1999, 13, 1163-1168.	1.0	2
47	Microwave second harmonic emission by Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> : comparison with YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . Physica C: Superconductivity and Its Applications, 1999, 317-318, 428-431.	0.6	2
48	History and memory effect in the microwave second-order response of Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> crystal in the critical state. Physica C: Superconductivity and Its Applications, 2002, 369, 245-249.	0.6	2
49	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
50	Field-induced suppression of the Ī-band superconductivity and magnetic hysteresis in the microwave surface resistance of MgB <sub>2</sub> at temperatures nearT <sub>c</sub> . Superconductor Science and Technology, 2009, 22, 055010.	1.8	2
51	Tunable coaxial cavity resonator for linear and nonlinear microwave characterization of superconducting wires. Superconductor Science and Technology, 2011, 24, 095008.	1.8	2
52	An experiment on wind energy. Physics Education, 2012, 47, 755-759.	0.3	2
53	Effect of boron doping in the microwave surface resistance of neutron irradiated melt-textured Y <sub>1.6</sub> Ba <sub>2.3</sub> Cu <sub>3.3</sub> O <sub>7-x</sub> samples. Physica C: Superconductivity and Its Applications, 2012, 483, 71-78.	0.6	2
54	'Naughty cylinder' mechanical paradox. Physics Education, 2013, 48, 137-138.	0.3	2

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55	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
56	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
57	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
58	Fluxon dynamics in Li <sup>+</sup> Al codoped by microwave surface resistance measurements. Physica C: Superconductivity and Its Applications, 2010, 470, 907-910.	0.6	1
59	Frequency dependence of the microwave surface resistance of MgB <sub>2</sub> by coaxial cavity resonator. Physica C: Superconductivity and Its Applications, 2014, 503, 150-153.	0.6	1
60	Exploring Historical Scientific Instruments by Using Mobile Media Devices. Physics Teacher, 2022, 60, 202-206.	0.2	1
61	Microwave magnetic-field effects in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single crystals near T <sub>c</sub> . Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1889-1894.	0.4	0
62	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