# Aurelio Agliolo Gallitto

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | Harmonic emission at microwave frequencies in YBa2Cu3O7 single crystals near Tc. Physica C: Superconductivity and Its Applications, 1998, 305, 75-84. | 1.2 | 20 |
| 2 | Measurement of the Convective Heat-Transfer Coefficient. Physics Teacher, 2014, 52, 109-111. | 0.3 | 20 |
| 3 | Comparative study of historical woods from XIX century by thermogravimetry coupled with FTIR spectroscopy. Cellulose, 2019, 26, 8853-8865. | 4.9 | 18 |
| 4 | Intergrain Effects in the AC Susceptibility ofÂPolycrystalline LaFeAsO0.94F0.06. Journal of Low Temperature Physics, 2011, 162, 40-51. | 1.4 | 16 |
| 5 | Critical-state effects on microwave losses in type-II superconductors. European Physical Journal B, 2006, 52, 459-463. | 1.5 | 15 |
| 6 | 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 |
| 7 | Field-induced variations of the microwave surface impedance ofYBa2Cu3O7crystals nearTc. Physical Review B, 1997, 56, 5140-5143. | 3.2 | 12 |
| 8 | Characteristic features of the temperature dependence of the surface impedance in polycrystalline MgB 2 samples. Europhysics Letters, 2002, 58, 422-428. | 2.0 | 10 |
| 9 | Depinning frequency in a heavily neutron-irradiated MgB2 sample. Physica C: Superconductivity and Its Applications, 2008, 468, 2372-2377. | 1.2 | 10 |
| 10 | An approach to the Venturi effect by historical instruments. Physics Education, 2021, 56, 025007. | 0.5 | 10 |
| 11 | Harmonic emission at microwave frequencies in Ba0.6K0.4BiO3 crystals. Physica C: Superconductivity and Its Applications, 1998, 309, 8-16. | 1.2 | 8 |
| 12 | 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 |
| 13 | Nonlinear effects and anisotropy in YBa2Cu3O7 single crystals near Tc. Physica C: Superconductivity and Its Applications, 1996, 259, 365-372. | 1.2 | 7 |
| 14 | 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 |
| 15 | The double cone: a mechanical paradox or a geometrical constraint?. Physics Education, 2011, 46, 682-684. | 0.5 | 7 |
| 16 | Electrical-optical characterization of multijunction solar cells under 2000X concentration. AIP Conference Proceedings, 2014, , . | 0.4 | 7 |
| 17 | THIRD-HARMONIC EMISSION IN MgB2 SUPERCONDUCTOR AT MICROWAVE FREQUENCIES. International Journal of Modern Physics B, 2003, 17, 535-541. | 2.0 | 6 |
| 18 | Microwave surface resistance of pristine and neutron-irradiated MgB2 samples in magnetic field. European Physical Journal B, 2008, 63, 165-177. | 1.5 | 6 |

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|---|---|---|---|
| 19 | â€˜School adopts an experimentâ€™: the magnetic levitation of superconductors. Physics Education, 2010, 45, 511-515. | 0.5 | 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. | 3.4 | 6 |
| 21 | CHP efficiency of a 2000 Ã— CPV system with reflective optics. AIP Conference Proceedings, 2015, , . | 0.4 | 5 |
| 22 | 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 |
| 23 | Nonlinear microwave emission in Ba0.6K0.4BiO3 crystals near Tc. Physica C: Superconductivity and Its Applications, 2000, 330, 141-149. | 1.2 | 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. | 2.0 | 4 |
| 25 | Microwave surface resistance and upper-critical-field anisotropy of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2003, 384, 11-18. | 1.2 | 4 |
| 26 | Time evolution of the microwave second-harmonic response of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2004, 404, 6-10. | 1.2 | 4 |
| 27 | Microwave second-harmonic response of ceramic MgB2 samples. Physica C: Superconductivity and Its Applications, 2005, 432, 306-314. | 1.2 | 4 |
| 28 | Microwave response of a cylindrical cavity made of bulk MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2008, 468, 66-71. | 1.2 | 4 |
| 29 | 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 |
| 30 | A mechanical model of the smartphoneâ€™s accelerometer. Physics Education, 2015, 50, 646-647. | 0.5 | 4 |
| 31 | A study of capillarity phenomena by using a computer-based simulation approach. European Journal of Physics, 2021, 42, 055704. | 0.6 | 4 |
| 32 | MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE RESISTANCE IN MgB2 SUPERCONDUCTORS. International Journal of Modern Physics B, 2002, 16, 1571-1576. | 2.0 | 3 |
| 33 | Fluxon dynamics by microwave surface resistance measurements in MgB2. Physica C: Superconductivity and Its Applications, 2004, 404, 171-175. | 1.2 | 3 |
| 34 | Microwave response of bulk MgB2samples of different granularity. Journal of Physics: Conference Series, 2006, 43, 480-483. | 0.4 | 3 |
| 35 | Near-Tc second-harmonic emission in high-density bulk MgB2 at microwave frequency. European Physical Journal B, 2006, 51, 537-542. | 1.5 | 3 |
| 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 | A superconducting microwave cavity made of bulk MgB2. Superconductor Science and Technology, 2007, 20, L16-L19. | 3.5 | 3 |
| 38 | Anomalous magnetic hysteresis in the microwave surface resistance of MgB2superconductor. Journal of Physics: Conference Series, 2008, 97, 012207. | 0.4 | 3 |
| 39 | Electromagnetic response of LaO<sub>0.94</sub>F<sub>0.06</sub>FeAs:ACsusceptibility and microwave surface resistance. Journal of Physics: Conference Series, 2010, 234, 012001. | 0.4 | 3 |
| 40 | A didactic experiment and model of a flat-plate solar collector. Physics Education, 2011, 46, 312-317. | 0.5 | 3 |
| 41 | Microwave Response of Coaxial Cavities Made of Bulk Magnesium Diboride. IEEE Transactions on Applied Superconductivity, 2014, 24, 13-21. | 1.7 | 3 |
| 42 | High-Efficiency Multi-Junction Photovoltaic Cells in School Physics Laboratory. Physics Teacher, 2020, 58, 126-129. | 0.3 | 3 |
| 43 | Dynamic measurement of the elastic constant of an helicoidal spring by a smartphone. Physics Education, 2021, 56, 035010. | 0.5 | 3 |
| 44 | 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 |
| 45 | Nonlinear magnetization of YBa2Cu3O7 single crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2023-2024. | 1.2 | 2 |
| 46 | Microwave Third Harmonic Emission by Ba0.6K0.4BiO3 Crystals. International Journal of Modern Physics B, 1999, 13, 1163-1168. | 2.0 | 2 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Tunable coaxial cavity resonator for linear and nonlinear microwave characterization of superconducting wires. Superconductor Science and Technology, 2011, 24, 095008. | 3.5 | 2 |
| 52 | An experiment on wind energy. Physics Education, 2012, 47, 755-759. | 0.5 | 2 |
| 53 | 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 |
| 54 | 'Naughty cylinder' mechanical paradox. Physics Education, 2013, 48, 137-138. | 0.5 | 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. | 1.2 | 1 |
| 58 | Fluxon dynamics in Liâ€“Al codoped by microwave surface resistance measurements. Physica C: Superconductivity and Its Applications, 2010, 470, 907-910. | 1.2 | 1 |
| 59 | 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 |
| 60 | Exploring Historical Scientific Instruments by Using Mobile Media Devices. Physics Teacher, 2022, 60, 202-206. | 0.3 | 1 |
| 61 | 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 |
| 62 | 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 |