

Maurizio Zani

List of Publications by Year in descending order

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46
papers

347
citations

840776

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h-index

940533

16
g-index

46
all docs

46
docs citations

46
times ranked

554
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hybrid One-Dimensional Plasmonic Photonic Crystals for Optical Detection of Bacterial Contaminants. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4980-4986. | 4.6 | 50 |
| 2 | Magnetization reversal properties of Fe ²⁺ /NiO ²⁺ /Fe(001) trilayers. <i>Physical Review B</i> , 2005, 72, . | 3.2 | 25 |
| 3 | Patterning-induced strain relief in single lithographic SiGe nanostructures studied by nanobeam x-ray diffraction. <i>Nanotechnology</i> , 2012, 23, 155702. | 2.6 | 24 |
| 4 | Synthesis and characterization of Pd membranes on alumina-modified porous stainless steel supports. <i>Desalination</i> , 2009, 245, 508-515. | 8.2 | 15 |
| 5 | Is a Knowledge of Surface Topology and Contact Angles Enough to Define the Drop Impact Outcome?. <i>Langmuir</i> , 2016, 32, 6255-6262. | 3.5 | 15 |
| 6 | Charge dynamics in aluminum oxide thin film studied by ultrafast scanning electron microscopy. <i>Ultramicroscopy</i> , 2018, 187, 93-97. | 1.9 | 15 |
| 7 | Graphene as an Ideal Buffer Layer for the Growth of High-Quality Ultrathin Cr ₂ O ₃ Layers on Ni(111). <i>ACS Nano</i> , 2019, 13, 4361-4367. | 14.6 | 15 |
| 8 | Surface and bulk modification of W-La ₂ O ₃ armor mock-up. <i>Journal of Nuclear Materials</i> , 2009, 393, 522-526. | 2.7 | 13 |
| 9 | Hydrostatic strain enhancement in laterally confined SiGe nanostripes. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 13 |
| 10 | Magnetic hysteresis and Barkhausen noise in thin Fe films at 10 K. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 1183-1188. | 1.8 | 12 |
| 11 | Doping dependence of the electron spin diffusion length in germanium. <i>APL Materials</i> , 2019, 7, . | 5.1 | 12 |
| 12 | Peer Learning as a Key Component of an Integrated Teaching Method: Overcoming the Complexities of Physics Teaching in Large Size Classes. <i>Education Sciences</i> , 2021, 11, 67. | 2.6 | 12 |
| 13 | Evolution of the magnetic and electronic properties of ultrathin Cr(001) films. <i>Solid State Communications</i> , 2000, 116, 283-286. | 1.9 | 10 |
| 14 | Black-silicon production process by CF ₄ /H ₂ plasma. <i>Thin Solid Films</i> , 2016, 603, 173-179. | 1.8 | 9 |
| 15 | Imaging photoinduced surface potentials on hybrid perovskites by real-time Scanning Electron Microscopy. <i>Micron</i> , 2019, 121, 53-65. | 2.2 | 9 |
| 16 | Quantitative investigation of the influence of carbon surfactant on Ge surface diffusion and island nucleation on Si(100). <i>Physical Review B</i> , 2010, 82, . | 3.2 | 8 |
| 17 | Tungsten oxide thin film photo-anodes by reactive RF diode sputtering. <i>Thin Solid Films</i> , 2016, 616, 375-380. | 1.8 | 8 |
| 18 | A double coil apparatus for Barkhausen noise measurements. <i>Review of Scientific Instruments</i> , 2001, 72, 2058-2061. | 1.3 | 7 |

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|----|--|-----|-----------|
| 19 | Negative Barkhausen jumps in amorphous ribbons of Fe ₆₃ B ₁₄ Si ₈ Ni ₁₅ . Journal of Applied Physics, 2003, 94, 5901-5904. | 2.5 | 7 |
| 20 | Magnetic properties of Fe/NiO/Fe(001) trilayers. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 153-156. | 2.3 | 6 |
| 21 | Integrating MOOCs in physics preliminary undergraduate education: beyond large size lectures. Educational Media International, 2018, 55, 301-316. | 1.7 | 6 |
| 22 | Dynamical Imaging of Surface Photopotentials in Hybrid Lead Iodide Perovskite Films under High Optical Irradiance and the Role of Selective Contacts. Advanced Materials Interfaces, 2020, 7, 2000297. | 3.7 | 6 |
| 23 | Barkhausen jumps and metastability. Journal Physics D: Applied Physics, 2003, 36, 2036-2040. | 2.8 | 5 |
| 24 | PEER LEARNING FOR LARGE SIZE PHYSICS LECTURES IN HIGHER EDUCATION: YES, WE CAN. , 2018, , . | | 5 |
| 25 | Temperature dependent criticality of Barkhausen noise in thin Fe films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E865-E867. | 2.3 | 4 |
| 26 | Monitoring the kinetic evolution of self-assembled SiGe islands grown by Ge surface thermal diffusion from a local source. Nanotechnology, 2014, 25, 135606. | 2.6 | 4 |
| 27 | Temperature Effects on the HOPG Intercalation Process. Condensed Matter, 2019, 4, 23. | 1.8 | 4 |
| 28 | HIGHLIGHT MISCONCEPTIONS IN PHYSICS: A T.I.M.E. PROJECT. , 2019, , . | | 4 |
| 29 | Magneto-optical measurement of Barkhausen noise spectra. Review of Scientific Instruments, 2005, 76, 113906. | 1.3 | 3 |
| 30 | Size Evolution of Ordered SiGe Islands Grown by Surface Thermal Diffusion on Pit-Patterned Si(100) Surface. Nanoscale Research Letters, 2010, 5, 1921-1925. | 5.7 | 3 |
| 31 | Effects of the introduction of a chromium oxide monolayer at the C60/Fe(001) interface. Journal of Applied Physics, 2019, 125, 142907. | 2.5 | 3 |
| 32 | Magnetic properties of the CoO/Fe(001) system with a bottom-up engineered interface. Journal of Magnetism and Magnetic Materials, 2019, 475, 54-59. | 2.3 | 3 |
| 33 | Temperature-dependent criticality in random 2D Ising models. European Physical Journal Plus, 2021, 136, 1. | 2.6 | 3 |
| 34 | Polycrystalline indium phosphide on silicon by indium assisted growth in hydride vapor phase epitaxy. Journal of Applied Physics, 2014, 116, 033519. | 2.5 | 2 |
| 35 | Ultrafast photochromism and bacteriochromism in one dimensional hybrid plasmonic photonic structures. , 2020, , . | | 2 |
| 36 | Delayed plastic relaxation limit in SiGe islands grown by Ge diffusion from a local source. Journal of Applied Physics, 2015, 117, 104309. | 2.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Misconceptions in Physics at Politecnico di Milano: Preliminary Results. , 2020, , 211-216. | | 1 |
| 38 | MISCONCEPTIONS IN PHYSICS: AN UPHILL CLIMB. INTED Proceedings, 2020, , . | 0.0 | 1 |
| 39 | PHYSICS EXPERIMENTS AND PEER-ASSESSMENT: AN HIGH-SCHOOL “ UNIVERSITY PROJECT. , 2021, , . | | 1 |
| 40 | Dynamical imaging of local photovoltage at semiconductor surface by photo-assisted ultrafast scanning electron microscopy. EPJ Web of Conferences, 2021, 255, 11001. | 0.3 | 1 |
| 41 | Advanced spectroscopies of graphene and 2D materials. , 2016, , . | | 0 |
| 42 | Electronic structure and magnetic behavior of ultra-thin Fe films grown on W(110) with a Co buffer layer. Journal of Electron Spectroscopy and Related Phenomena, 2020, 243, 146977. | 1.7 | 0 |
| 43 | A NOVEL APPROACH TO ONLINE PHYSICS REFRESHER COURSES AT POLITECNICO DI MILANO. INTED Proceedings, 2021, , . | 0.0 | 0 |
| 44 | DETERMINING AN EXTRAORDINARY CONSTANT: A PLS PROJECT. , 2019, , . | | 0 |
| 45 | SECURING FRESHMEN’S LEARNING THROUGH A PHYSICS REFRESHER COURSE: A BREAKTHROUGH EXPERIENCE AT POLITECNICO DI MILANO. , 2019, , . | | 0 |
| 46 | NOT ONLY A CHARGE: INVOLVING STUDENTS IN THE OIL DROP EXPERIMENT. , 2020, , . | | 0 |