

# Maurizio Zani

## List of Publications by Year in descending order

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46  
papers

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citations

840776

11  
h-index

940533

16  
g-index

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all docs

46  
docs citations

46  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Peer Learning as a Key Component of an Integrated Teaching Method: Overcoming the Complexities of Physics Teaching in Large Size Classes. Education Sciences, 2021, 11, 67.	2.6	12
2	A NOVEL APPROACH TO ONLINE PHYSICS REFRESHER COURSES AT POLITECNICO DI MILANO. INTED Proceedings, 2021, , .	0.0	0
3	Temperature-dependent criticality in random 2D Ising models. European Physical Journal Plus, 2021, 136, 1.	2.6	3
4	PHYSICS EXPERIMENTS AND PEER-ASSESSMENT: AN HIGH-SCHOOL “ UNIVERSITY PROJECT. , 2021, , .		1
5	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
6	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
7	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
8	Ultrafast photochromism and bacteriochromism in one dimensional hybrid plasmonic photonic structures. , 2020, , .		2
9	NOT ONLY A CHARGE: INVOLVING STUDENTS IN THE OIL DROP EXPERIMENT. , 2020, , .		0
10	Misconceptions in Physics at Politecnico di Milano: Preliminary Results. , 2020, , 211-216.		1
11	MISCONCEPTIONS IN PHYSICS: AN UPHILL CLIMB. INTED Proceedings, 2020, , .	0.0	1
12	Hybrid One-Dimensional Plasmonic“Photonic Crystals for Optical Detection of Bacterial Contaminants. Journal of Physical Chemistry Letters, 2019, 10, 4980-4986.	4.6	50
13	Doping dependence of the electron spin diffusion length in germanium. APL Materials, 2019, 7, .	5.1	12
14	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
15	Imaging photoinduced surface potentials on hybrid perovskites by real-time Scanning Electron Microscopy. Micron, 2019, 121, 53-65.	2.2	9
16	Graphene as an Ideal Buffer Layer for the Growth of High-Quality Ultrathin Cr<sub>2</sub>O<sub>3</sub> Layers on Ni(111). ACS Nano, 2019, 13, 4361-4367.	14.6	15
17	Temperature Effects on the HOPG Intercalation Process. Condensed Matter, 2019, 4, 23.	1.8	4
18	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

#	ARTICLE	IF	CITATIONS
19	HIGHLIGHT MISCONCEPTIONS IN PHYSICS: A T.I.M.E. PROJECT. , 2019, , .		4
20	DETERMINING AN EXTRAORDINARY CONSTANT: A PLS PROJECT. , 2019, , .		0
21	SECURING FRESHMENâ€™S LEARNING THROUGH A PHYSICS REFRESHER COURSE: A BREAKTHROUGH EXPERIENCE AT POLITECNICO DI MILANO. , 2019, , .		0
22	Charge dynamics in aluminum oxide thin film studied by ultrafast scanning electron microscopy. Ultramicroscopy, 2018, 187, 93-97.	1.9	15
23	Integrating MOOCs in physics preliminary undergraduate education: beyond large size lectures. Educational Media International, 2018, 55, 301-316.	1.7	6
24	PEER LEARNING FOR LARGE SIZE PHYSICS LECTURES IN HIGHER EDUCATION: YES, WE CAN. , 2018, , .		5
25	Black-silicon production process by CF <sub>4</sub> /H <sub>2</sub> plasma. Thin Solid Films, 2016, 603, 173-179.	1.8	9
26	Tungsten oxide thin film photo-anodes by reactive RF diode sputtering. Thin Solid Films, 2016, 616, 375-380.	1.8	8
27	Advanced spectroscopies of graphene and 2D materials. , 2016, , .		0
28	Is a Knowledge of Surface Topology and Contact Angles Enough to Define the Drop Impact Outcome?. Langmuir, 2016, 32, 6255-6262.	3.5	15
29	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
30	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
31	Polycrystalline indium phosphide on silicon by indium assisted growth in hydride vapor phase epitaxy. Journal of Applied Physics, 2014, 116, 033519.	2.5	2
32	Hydrostatic strain enhancement in laterally confined SiGe nanostripes. Physical Review B, 2013, 88, .	3.2	13
33	Patterning-induced strain relief in single lithographic SiGe nanostructures studied by nanobeam x-ray diffraction. Nanotechnology, 2012, 23, 155702.	2.6	24
34	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
35	Quantitative investigation of the influence of carbon surfactant on Ge surface diffusion and island nucleation on Si(100). Physical Review B, 2010, 82, .	3.2	8
36	Surface and bulk modification of Wâ€™La <sub>2</sub> O <sub>3</sub> armor mock-up. Journal of Nuclear Materials, 2009, 393, 522-526.	2.7	13

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37	Synthesis and characterization of Pd membranes on alumina-modified porous stainless steel supports. Desalination, 2009, 245, 508-515.	8.2	15
38	Magnetic properties of Fe/NiO/Fe(001) trilayers. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 153-156.	2.3	6
39	Magnetization reversal properties of Fe <sup>2+</sup> -NiO <sup>2+</sup> -Fe(001)trilayers. Physical Review B, 2005, 72, .	3.2	25
40	Magneto-optical measurement of Barkhausen noise spectra. Review of Scientific Instruments, 2005, 76, 113906.	1.3	3
41	Magnetic hysteresis and Barkhausen noise in thin Fe films at 10 K. Journal of Physics Condensed Matter, 2004, 16, 1183-1188.	1.8	12
42	Temperature dependent criticality of Barkhausen noise in thin Fe films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E865-E867.	2.3	4
43	Negative Barkhausen jumps in amorphous ribbons of Fe <sub>63</sub> B <sub>14</sub> Si <sub>8</sub> Ni <sub>15</sub> . Journal of Applied Physics, 2003, 94, 5901-5904.	2.5	7
44	Barkhausen jumps and metastability. Journal Physics D: Applied Physics, 2003, 36, 2036-2040.	2.8	5
45	A double coil apparatus for Barkhausen noise measurements. Review of Scientific Instruments, 2001, 72, 2058-2061.	1.3	7
46	Evolution of the magnetic and electronic properties of ultrathin Cr(001) films. Solid State Communications, 2000, 116, 283-286.	1.9	10