Renato Buzio

List of Publications by Year
in descending order

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64 papers	1,296 citations	394421 19 h-index	361022 35 g-index
64 all docs	64 docs citations	64 times ranked	1584 citing authors

#	Article	IF	Citations
1	Magneticâ€Field Tunable Intertwined Checkerboard Charge Order and Nematicity in the Surface Layer of Sr₂RuO₄. Advanced Materials, 2021, 33, e2100593.	21.0	11
2	Graphite superlubricity enabled by triboinduced nanocontacts. Carbon, 2021, 184, 875-890.	10.3	7
3	Macroscopic Versus Microscopic Schottky Barrier Determination at (Au/Pt)/Ge(100): Interfacial Local Modulation. ACS Applied Materials & Interfaces, 2020, 12, 28894-28902.	8.0	4
4	Benchmarking Î²â€Ga 2 O 3 Schottky Diodes by Nanoscale Ballistic Electron Emission Microscopy. Advanced Electronic Materials, 2020, 6, 1901151.	5.1	10
5	Subnanometer Resolution and Enhanced Friction Contrast at the Surface of Perylene Diimide PDI8-CN₂ Thin Films in Ambient Conditions. Langmuir, 2018, 34, 3207-3214.	3.5	11
6	Accurate ab initio determination of ballistic electron emission spectroscopy: Application to Au/Ge. Physical Review B, 2018, 98, .	3.2	4
7	Temperature- and doping-dependent nanoscale Schottky barrier height at the Au/Nb:SrTiO3 interface. Applied Physics Letters, 2018, 113, 141604.	3.3	5
8	Ultralow friction of ink-jet printed graphene flakes. Nanoscale, 2017, 9, 7612-7624.	5.6	20
9	Atomic-scale distortions and temperature-dependent large pseudogap in thin films of the parent iron-chalcogenide superconductor Fe_{1+y}Te. Journal of Physics Condensed Matter, 2017, 29, 485002.	1.8	5
10	Ballistic electron and photocurrent transport in Au/organic/Si(001) diodes with PDI8-CN2 interlayers. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041212.	1.2	6
11	Noncontact Atomic Force Microscope Dissipation Reveals a Central Peak ofSrTiO3Structural Phase Transition. Physical Review Letters, 2015, 115, 046101.	7.8	20
12	Symmetric curvature descriptors for label-free analysis of DNA. Scientific Reports, 2015, 4, 6459.	3.3	1
13	An automatic method for atom identification in scanning tunnelling microscopy images of Feâ€chalcogenide superconductors. Journal of Microscopy, 2015, 260, 302-311.	1.8	4
14	Electronic Structure of Coreâ€“Shell Metal/Oxide Aluminum Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 26719-26725.	3.1	16
15	Electron injection barrier and energy-level alignment at the Au/PDI8-CN2 interface via currentâ€“voltage measurements and ballistic emission microscopy. Organic Electronics, 2015, 18, 44-52.	2.6	26
16	Potentiality for Low Temperatureâ€”High Field Application of Iron Chalcogenide Thin Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	6
17	Broadband plasmonic response of self-organized aluminium nanowire arrays. Journal Physics D: Applied Physics, 2015, 48, 184003.	2.8	11
18	Ballistic Transport at the Nanometric Inhomogeneities in Au/Nb:SrTiO₃ Resistive Switches. Advanced Materials Interfaces, 2014, 1, 1300057.	3.7	14

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19	Giant frictional dissipation peaks and charge-density-wave slips at the NbSe2 surface. Nature Materials, 2014, 13, 173-177.	27.5	52
20	Fabrication and electromechanical actuation of epitaxial SrTiO3(0 0 1) microcantilevers. Journal of Micromechanics and Microengineering, 2013, 23, 035031.	2.6	7
21	All-oxide microcantilevers: Perspectives for device applications. , 2013, , .		0
22	Label-free, atomic force microscopy-based mapping of DNA intrinsic curvature for the nanoscale comparative analysis of bent duplexes. Nucleic Acids Research, 2012, 40, e84-e84.	14.5	6
23	Modulation of resistance switching in Au/Nb:SrTiO3 Schottky junctions by ambient oxygen. Applied Physics Letters, 2012, 101, 243505.	3.3	40
24	Superconducting FeSe_{0.5}Te_{0.5}thin films: a morphological and structural investigation with scanning tunnelling microscopy and x-ray diffraction. Superconductor Science and Technology, 2012, 25, 012001.	3.5	18
25	Tuning of the superconducting properties of FeSe_{0.5}Te_{0.5}thin films through the substrate effect. Superconductor Science and Technology, 2012, 25, 084022.	3.5	48
26	Exploring Mesoscale Contact Mechanics by Atomic Force Microscopy. Nanoscience and Technology, 2012, , 55-75.	1.5	0
27	Strong vortex pinning in FeSe0.5Te0.5 epitaxial thin film. Applied Physics Letters, 2012, 100, .	3.3	37
28	Theoretical bases of identification of solid surface fractality. Journal of Friction and Wear, 2011, 32, 333-337.	0.5	1
29	Critical Temperature Enhancement by Biaxial Compressive Strain in FeSe0.5Te0.5 Thin Films. Journal of Superconductivity and Novel Magnetism, 2011, 24, 35-41.	1.8	21
30	T c = 21 â€, K in epitaxial FeSe0.5Te0.5 thin films with biaxial compressive strain. Applied Physics Letters, 2010, 96, .	3.3	189
31	High quality epitaxial FeSe_{0.5}Te_{0.5}thin films grown on SrTiO₃substrates by pulsed laser deposition. Superconductor Science and Technology, 2009, 22, 105007.	3.5	68
32	Fast three-dimensional nanoscale metrology in dual-beam FIBâ€“SEM instrumentation. Ultramicroscopy, 2009, 109, 1338-1342.	1.9	6
33	Substrate temperature dependence of the structure of polythiophene thin films obtained by Matrix Assisted Pulsed Laser Evaporation (MAPLE). EPJ Applied Physics, 2009, 48, 10505.	0.7	9
34	Optically addressable single molecule magnet behaviour of vacuum-sprayed ultrathin films. Journal of Materials Chemistry, 2008, 18, 109-115.	6.7	26
35	Architecture for the semi-automatic fabrication and assembly of thin-film based dielectric elastomer actuators. Proceedings of SPIE, 2008, , .	0.8	4
36	Interfacial stiffness and adhesion of randomly rough contacts probed by elastomer colloidal AFM probes. Journal of Physics Condensed Matter, 2008, 20, 354014.	1.8	8

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37	Nanotechnology Applications in Medicine. Tumori, 2008, 94, 206-215.	1.1	27
38	Nanotechnology applications in medicine. Tumori, 2008, 94, 206-15.	1.1	10
39	Low-temperature static friction of N₂monolayers on Pb(111). Journal of Physics Condensed Matter, 2007, 19, 305013.	1.8	12
40	Deformation and Adhesion of Elastomer Poly(dimethylsiloxane) Colloidal AFM Probes. Langmuir, 2007, 23, 9293-9302.	3.5	33
41	Atomic force microscopy and X-ray photoelectron spectroscopy characterization of low-energy ion sputtered mica. Surface Science, 2007, 601, 2735-2739.	1.9	18
42	The Role of Nanoroughness in Contact Mechanics. Nanoscience and Technology, 2007, , 345-359.	1.5	0
43	Morphological and Tribological Characterization of Rough Surfaces by Atomic Force Microscopy. Nanoscience and Technology, 2006, , 261-298.	1.5	3
44	Morphological characterization and scaling behaviour of WC coatings deposited by HVOF thermal spray. Surface and Coatings Technology, 2006, 200, 6430-6433.	4.8	5
45	Friction laws for lubricated nanocontacts. Journal of Chemical Physics, 2006, 125, 094708.	3.0	12
46	Probing the Role of Nanoroughness in Contact Mechanics by Atomic Force Microscopy. Advances in Science and Technology, 2006, 51, 90.	0.2	2
47	Structural Depinning of Ne Monolayers on Pb atT<6.5â€‰â€‰K. Physical Review Letters, 2006, 96, 216101.	7.8	41
48	Ion beam erosion of amorphous materials: evolution of surface morphology. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 551-554.	1.4	58
49	Temperature dependence of rippled corrugations induced on the Rh(110) surface via ion sputtering. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 555-559.	1.4	3
50	Nanostructuring polymers by soft lithography templates realized via ion sputtering. Nanotechnology, 2005, 16, 2714-2717.	2.6	5
51	Dense arrays of Co nanocrystals epitaxially grown on ion-patterned Cu(110) substrates. Applied Physics Letters, 2005, 86, 141906.	3.3	10
52	Surface analysis of paper documents damaged by foxing. Applied Physics A: Materials Science and Processing, 2004, 79, 383-387.	2.3	18
53	Experimental Investigation of the Contact Mechanics of Rough Fractal Surfaces. IEEE Transactions on Nanobioscience, 2004, 3, 27-31.	3.3	8
54	A novel approach for the investigation of mesoscopic contact mechanics. Thin Solid Films, 2003, 428, 111-114.	1.8	6

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55	Contact mechanics and friction of fractal surfaces probed by atomic force microscopy. Wear, 2003, 254, 917-923.	3.1	33
56	Nanotribology of cluster assembled carbon films. Wear, 2003, 254, 981-987.	3.1	8
57	The contact mechanics of fractal surfaces. Nature Materials, 2003, 2, 233-236.	27.5	102
58	Nanocrystal Formation and Faceting Instability in Al(110) Homoepitaxy:TrueUpward Adatom Diffusion at Step Edges and Island Corners. Physical Review Letters, 2003, 91, 016102.	7.8	55
59	Nanoindentations on SrTiO3 Substrates: Effects of Fractal Roughness on Contact Mechanics. , 2003, , 129.		0
60	Fabrication of stable nanopatterns on metals. Applied Physics Letters, 2002, 81, 2632-2634.	3.3	11
61	In situ investigation of the first stages of growth of cluster-assembled carbon films by scanning tunnelling microscopy. Surface Science, 2002, 513, 381-388.	1.9	8
62	Friction force microscopy investigation of nanostructured carbon films. Carbon, 2002, 40, 883-890.	10.3	30
63	Self-affine properties of cluster-assembled carbon thin films. Surface Science, 2000, 444, L1-L6.	1.9	57
64	Investigation of the mesoscopic contact mechanics of sexithienyl thin films. , 0, , .		0