

Roberto Di Capua

List of Publications by Year in descending order

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63
papers

1,272
citations

331670

21
h-index

377865

34
g-index

66
all docs

66
docs citations

66
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of coherence in the charge-density wave state of 2H-NbSe ₂ . Nature Communications, 2015, 6, 6313.	12.8	123
2	Tunable spin polarization and superconductivity in engineered oxide interfaces. Nature Materials, 2016, 15, 278-283.	27.5	104
3	Structural and Electronic Reconstructions at the LaAlO ₃ /SrTiO ₃ Interface. Advanced Materials, 2013, 25, 2333-2338.	21.0	72
4	Synthesis and characterization of conductive copper-based metal-organic framework/graphene-like composites. Materials Chemistry and Physics, 2014, 147, 744-750.	4.0	54
5	Wet Chemical Method for Making Graphene-like Films from Carbon Black. ACS Applied Materials & Interfaces, 2012, 4, 4491-4498.	8.0	44
6	Ferromagnetism and ferroelectricity in epitaxial BiMnO ₃ ultra-thin films. Applied Physics Letters, 2013, 103, .	3.3	43
7	Signatures of unconventional superconductivity in the $\text{LaAlO}_3/\text{SrTiO}_3$ two-dimensional system. Physical Review B, 2017, 95, .	3.2	43
8	Critical currents of MgB ₂ thin films deposited in situ by sputtering. Physical Review B, 2003, 67, .	3.2	41
9	Effect of disorder in MgB ₂ thin films. Physical Review B, 2005, 71, .	3.2	40
10	Effect of magnetic impurities on the vortex lattice properties in NbSe ₂ crystals. Physical Review B, 2008, 78, .	3.2	40
11	Observation of a two-dimensional electron gas at the surface of annealed SrTiO ₃ single crystals by scanning tunneling spectroscopy. Physical Review B, 2012, 86, .	3.2	40
12	Supplementing TiO_2 -systems: eumelanin and graphene-like integration towards highly conductive materials for the mammalian cell culture bio-interface. Journal of Materials Chemistry B, 2015, 3, 5070-5079.	5.8	40
13	TiO ₂ /graphene-like photocatalysts for selective oxidation of 3-pyridine-methanol to vitamin B ₃ under UV/solar simulated radiation in aqueous solution at room conditions: The effect of morphology on catalyst performances. Applied Catalysis A: General, 2014, 487, 91-99.	4.3	39
14	Evolution of the charge density wave state in CuTiSe ₂ . Physical Review B, 2012, 85, .	3.2	34
15	High-quality MgB ₂ thin films in situ grown by dc magnetron sputtering. Superconductor Science and Technology, 2002, 15, 1236-1239.	3.5	33
16	Pedaling time variability is increased in dropped riding position. European Journal of Applied Physiology, 2012, 112, 3161-3165.	2.5	32
17	Transport properties of a quasi-two-dimensional electron system formed in LaAlO ₃ /EuTiO ₃ /SrTiO ₃ heterostructures. Physical Review B, 2014, 89, .	3.2	27
18	Graphene-like layers as promising chemiresistive sensing material for detection of alcohols at low concentration. Journal of Applied Physics, 2018, 123, .	2.5	27

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19	THz spectroscopy on graphene-like materials for bio-compatible devices. Journal of Applied Physics, 2017, 121, .	2.5	24
20	Ti- and Sr-rich surfaces of SrTiO ₃ studied by grazing incidence x-ray diffraction. Applied Physics Letters, 2007, 91, 101910.	3.3	22
21	Nanoscale modulation of the density of states at the conducting interface between LaAlO ₃ and SrTiO ₃ band insulators. Europhysics Letters, 2011, 93, 17004.	2.0	22
22	Photodoping and in-gap interface states across the metal-insulator transition in LaAlO ₃ /SrTiO ₃ heterostructures. Physical Review B, 2012, 86, .	3.2	22
23	Tuning the surface morphology of self-assembled graphene-like thin films through pH variation. Applied Surface Science, 2015, 353, 628-635.	6.1	21
24	Role of interband scattering in neutron irradiated MgB ₂ thin films by scanning tunneling spectroscopy measurements. Physical Review B, 2007, 75, .	3.2	18
25	In situ investigation of the early stage of TiO ₂ epitaxy on (001) SrTiO ₃ . Journal of Chemical Physics, 2011, 135, 034705.	3.0	17
26	Symmetry breaking at the (111) interfaces of SrTiO ₃ hosting a two-dimensional electron system. Physical Review B, 2018, 98, .	3.2	17
27	Self-Formed, Conducting LaAlO ₃ /SrTiO ₃ Micro-Membranes. Advanced Functional Materials, 2020, 30, 1909964.	14.9	17
28	Large Polarons as Key Quasiparticles in SrTiO ₃ and SrTiO ₃ -Based Heterostructures. Physical Review Letters, 2020, 125, 126401.	7.8	15
29	Study of the correlation between sensing performance and surface morphology of inkjet-printed aqueous graphene-based chemiresistors for NO ₂ detection. Beilstein Journal of Nanotechnology, 2017, 8, 1023-1031.	2.8	14
30	Eumelanin Graphene-Like Integration: The Impact on Physical Properties and Electrical Conductivity. Frontiers in Chemistry, 2019, 7, 121.	3.6	14
31	Neutron irradiation effects on two gaps in MgB ₂ . Physica C: Superconductivity and Its Applications, 2007, 456, 144-152.	1.2	13
32	Orbital selective switching of ferromagnetism in an oxide quasi two-dimensional electron gas. Npj Quantum Materials, 2022, 7, .	5.2	11
33	Electronic phase separation near the superconductor-insulator transition of Nd _{1-x} Bi _x Bi ₂ Se ₃ . Physical Review B, 2008, 78, .	3.2	10
34	STM tunneling spectroscopic studies of YNd _{2-x} Cu ₃ O _{7-y} thin films. Physical Review B, 2002, 65, .	3.2	9
35	Effect of strain in La _{0.7} Sr _{0.3} MnO ₃ epitaxial films with different crystallographic orientation. Journal of Alloys and Compounds, 2006, 423, 228-231.	5.5	9
36	Cell viability studies and operation in cellular culture medium of n-type organic field-effect transistors. Journal of Applied Physics, 2012, 111, 034702.	2.5	9

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37	Direct observation of spectroscopic inhomogeneities on La _{0.7} Sr _{0.3} MnO ₃ thin films by scanning tunnelling spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8195-8204.	1.8	8
38	Shoes and Insoles: The Influence on Motor Tasks Related to Walking Gait Variability and Stability. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4569.	2.6	8
39	Superconducting properties of YNdBaCuO and NdBaCuO thin films deposited by dc sputtering. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 3201-3204.	1.7	7
40	Check the Lambert-Beer-Bouguer law: a simple trick to boost the confidence of students toward both exponential laws and the discrete approach to experimental physics. <i>European Journal of Physics</i> , 2014, 35, 045025.	0.6	7
41	Electronic and structural reconstructions of the polar (111) SrTiO ₃ surface. <i>Physical Review B</i> , 2019, 99, .	3.2	7
42	Superconducting properties of LuNi ₂ B ₂ C films and junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 757-758.	1.2	6
43	Role of hydrostatic paradoxes towards the formation of the scientific thought of students at academic level. <i>European Journal of Physics</i> , 2005, 26, 1017-1030.	0.6	6
44	Electric field effect and superconducting-insulating transition in $\text{La}_{1-x}\text{Ca}_x\text{CuO}_2$ cuprate superconductors. <i>Superconductor Science and Technology</i> , 2009, 22, 034010.	3.5	5
45	STM studies of Co _x NbSe ₂ and Mn _x NbSe ₂ . <i>Journal of Physics: Conference Series</i> , 2009, 150, 052073.	0.4	5
46	Two-dimensional electron gas at the (001) surface of ferromagnetic EuTiO_3 . <i>Physical Review Research</i> , 2021, 3, .	3.6	5
47	Ferromagnetic Quasi-Two-Dimensional Electron Gas with Trigonal Crystal Field Splitting. <i>ACS Applied Electronic Materials</i> , 0, , .	4.3	5
48	Towards the realization of label-free biosensors through impedance spectroscopy integrated with IDES technology. <i>European Biophysics Journal</i> , 2012, 41, 249-256.	2.2	4
49	Effects of Gradient and Speed on Uphill Running Gait Variability. <i>Sports Health</i> , 2023, 15, 67-73.	2.7	4
50	HIGH QUALITY FULLY IN-SITU MgB ₂ THIN FILMS OBTAINED BY DC MAGNETRON SPUTTERING. <i>International Journal of Modern Physics B</i> , 2003, 17, 779-784.	2.0	3
51	Anisotropic transport properties in tilted dc-axis MgB ₂ thin films. <i>Superconductor Science and Technology</i> , 2010, 23, 025012.	3.5	3
52	An Old but Lively Nanomaterial: Exploiting Carbon Black for the Synthesis of Advanced Materials. <i>Eurasian Chemico-Technological Journal</i> , 2019, 21, 203.	0.6	3
53	Comparison among superconducting models for $\text{La}^{3+}\text{-ET}_4[(\text{H}_3\text{O})\text{Fe}(\text{C}_2\text{O}_4)_3]\cdot\text{C}_6\text{H}_5\text{Br}$ single crystals by scanning tunnelling spectroscopy. <i>Solid State Sciences</i> , 2008, 10, 1773-1776.	3.2	2
54	Scanning tunnelling spectroscopy study of paramagnetic superconducting $\text{La}^{2+}\text{-ET}_4[(\text{H}_3\text{O})\text{Fe}(\text{C}_2\text{O}_4)_3]\cdot\text{C}_6\text{H}_5\text{Br}$ crystals. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 175701.	1.8	2

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55	Strain and electric field control of the orbital and spin order in multiferroic BiMnO_3 . European Physical Journal Plus, 2020, 135, 1.	2.6	2
56	Graphene-Like Layers from Unconventional Carbon Sources: New Perspectives on Hybrid Materials and π -system Synergisms. Eurasian Chemico-Technological Journal, 2017, 18, 263.	0.6	2
57	SUPERCONDUCTING PROPERTIES OF $\text{LuNi}_2\text{B}_2\text{C}$ THIN FILMS. International Journal of Modern Physics B, 2000, 14, 2743-2748.	2.0	1
58	In situ sputtering growth and characterization of MgB_2 films for microwave applications. IEEE Transactions on Applied Superconductivity, 2003, 13, 3602-3605.	1.7	1
59	Structural and Electronic Reconstructions at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface (Adv. Mater. 16/2013). Advanced Materials, 2013, 25, 2332-2332.	21.0	1
60	A recovered friend: the afocal system. European Journal of Physics, 2018, 39, 025302.	0.6	1
61	Surface impedance of $\text{R}_1(\text{Nd}_x\text{Ba}_{2-x})\text{Cu}_3\text{O}_{7-\delta}$ ($\text{R}=\text{Nd}, \text{Y}$) thin films. Physica C: Superconductivity and Its Applications, 2002, 372-376, 703-705.	1.2	0
62	Scanning tunneling spectroscopy on neutron irradiated MgB_2 thin films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 574-575.	1.2	0
63	A teaser made simple: a didactic measurement of the spectral answer of a human-eye-calibrated lux meter. European Journal of Physics, 2012, 33, 1695-1702.	0.6	0