

# 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	Effects of Gradient and Speed on Uphill Running Gait Variability. <i>Sports Health</i> , 2023, 15, 67-73.	2.7	4
2	Orbital selective switching of ferromagnetism in an oxide quasi two-dimensional electron gas. <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	11
3	Two-dimensional electron gas at the (001) surface of ferromagnetic $\text{EuTiO}_3$ . <i>Physical Review Research</i> , 2021, 3, .	3.7	15
4	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
5	Self-Formed, Conducting $\text{LaAlO}_3/\text{SrTiO}_3$ Micro-Membranes. <i>Advanced Functional Materials</i> , 2020, 30, 1909964.	14.9	17
6	Large Polarons as Key Quasiparticles in $\text{SrTiO}_3$ and $\text{SrTiO}_3$ -Based Heterostructures. <i>Physical Review Letters</i> , 2020, 125, 126401.	7.8	15
7	Strain and electric field control of the orbital and spin order in multiferroic $\text{BiMnO}_3$ . <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	2
8	Electronic and structural reconstructions of the polar (111) $\text{SrTiO}_3$ surface. <i>Physical Review B</i> , 2019, 99, .	3.2	7
9	Eumelanin Graphene-Like Integration: The Impact on Physical Properties and Electrical Conductivity. <i>Frontiers in Chemistry</i> , 2019, 7, 121.	3.6	14
10	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
11	Graphene-like layers as promising chemiresistive sensing material for detection of alcohols at low concentration. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	27
12	A recovered friend: the afocal system. <i>European Journal of Physics</i> , 2018, 39, 025302.	0.6	1
13	Symmetry breaking at the (111) interfaces of $\text{SrTiO}_3$ hosting a two-dimensional electron system. <i>Physical Review B</i> , 2018, 98, .	3.2	17
14	THz spectroscopy on graphene-like materials for bio-compatible devices. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	24
15	Signatures of unconventional superconductivity in the $\text{LaAlO}_3/\text{SrTiO}_3$ two-dimensional system. <i>Physical Review B</i> , 2017, 95, .	3.2	43
16	Study of the correlation between sensing performance and surface morphology of inkjet-printed aqueous graphene-based chemiresistors for $\text{NO}_2$ detection. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1023-1031.	2.8	14
17	Graphene-Like Layers from Unconventional Carbon Sources: New Perspectives on Hybrid Materials and $\pi$ -system Synergisms. <i>Eurasian Chemico-Technological Journal</i> , 2017, 18, 263.	0.6	2
18	Tunable spin polarization and superconductivity in engineered oxide interfaces. <i>Nature Materials</i> , 2016, 15, 278-283.	27.5	104

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19	Emergence of coherence in the charge-density wave state of 2H-NbSe <sub>2</sub> . Nature Communications, 2015, 6, 6313.	12.8	123
20	Supplementing Ï€-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
21	Tuning the surface morphology of self-assembled graphene-like thin films through pH variation. Applied Surface Science, 2015, 353, 628-635.	6.1	21
22	Check the Lambertâ€œBeerâ€œBouguer law: a simple trick to boost the confidence of students toward both exponential laws and the discrete approach to experimental physics. European Journal of Physics, 2014, 35, 045025.	0.6	7
23	Transport properties of a quasi-two-dimensional electron system formed inLaAlO <sub>3</sub> /EuTiO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Physical Review B, 2014, 89, .	3.2	27
24	TiO <sub>2</sub> /graphene-like photocatalysts for selective oxidation of 3-pyridine-methanol to vitamin B <sub>3</sub> 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
25	Synthesis and characterization of conductive copper-based metal-organic framework/graphene-like composites. Materials Chemistry and Physics, 2014, 147, 744-750.	4.0	54
26	Ferromagnetism and ferroelectricity in epitaxial BiMnO <sub>3</sub> ultra-thin films. Applied Physics Letters, 2013, 103, .	3.3	43
27	Structural and Electronic Reconstructions at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface. Advanced Materials, 2013, 25, 2333-2338.	21.0	72
28	Structural and Electronic Reconstructions at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface (Adv. Mater. 16/2013). Advanced Materials, 2013, 25, 2332-2332.	21.0	1
29	Photodoping and in-gap interface states across the metal-insulator transition in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Physical Review B, 2012, 86, .	3.2	22
30	Evolution of the charge density wave state in Cu <sub>2</sub> TiSe <sub>5</sub> single crystals by scanning tunneling spectroscopy. Physical Review B, 2012, 85, .	3.2	34
31	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
32	Wet Chemical Method for Making Graphene-like Films from Carbon Black. ACS Applied Materials & Interfaces, 2012, 4, 4491-4498.	8.0	44
33	Observation of a two-dimensional electron gas at the surface of annealed SrTiO <sub>3</sub> single crystals by scanning tunneling spectroscopy. Physical Review B, 2012, 86, .	3.2	40
34	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
35	Pedaling time variability is increased in dropped riding position. European Journal of Applied Physiology, 2012, 112, 3161-3165.	2.5	32
36	Towards the realization of label-free biosensors through impedance spectroscopy integrated with IDES technology. European Biophysics Journal, 2012, 41, 249-256.	2.2	4

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37	In situ investigation of the early stage of TiO <sub>2</sub> epitaxy on (001) SrTiO <sub>3</sub> . Journal of Chemical Physics, 2011, 135, 034705.	3.0	17
38	Nanoscale modulation of the density of states at the conducting interface between LaAlO <sub>3</sub> and SrTiO <sub>3</sub> band insulators. Europhysics Letters, 2011, 93, 17004.	2.0	22
39	Anisotropic transport properties in tilted c-axis MgB <sub>2</sub> thin films. Superconductor Science and Technology, 2010, 23, 025012.	3.5	3
40	Scanning tunnelling spectroscopy study of paramagnetic superconducting $\text{La}^{2-x}\text{Fe}^{3-x}\text{Ti}_4[(\text{H}_3\text{O})\text{Fe}(\text{C}_2\text{O}_4)_3]\cdot\text{C}_6\text{H}_5\text{Br}$ crystals. Journal of Physics Condensed Matter, 2010, 22, 175701.	1.8	2
41	Electric field effect and superconducting-insulating transition in $\text{La}^{123}$ cuprate superconductors. Superconductor Science and Technology, 2009, 22, 034010.	3.5	5
42	STM studies of Co <sub>x</sub> NbSe <sub>2</sub> and Mn <sub>x</sub> NbSe <sub>2</sub> . Journal of Physics: Conference Series, 2009, 150, 052073.	0.4	5
43	Comparison among superconducting models for $\text{La}^{2-x}\text{Fe}^{3-x}\text{Ti}_4[(\text{H}_3\text{O})\text{Fe}(\text{C}_2\text{O}_4)_3]\cdot\text{C}_6\text{H}_5\text{Br}$ single crystals by scanning tunnelling spectroscopy. Solid State Sciences, 2008, 10, 1773-1776.	3.2	2
44	Electronic phase separation near the superconductor-insulator transition of $\text{Nd}_{1-x}\text{Mn}_x\text{Ti}_2$ . Physical Review B, 2008, 78, .	3.2	10
45	Effect of magnetic impurities on the vortex lattice properties in $\text{NbSe}_2$ crystals. Physical Review B, 2008, 78, .	3.2	40
46	Role of interband scattering in neutron irradiated MgB <sub>2</sub> thin films by scanning tunneling spectroscopy measurements. Physical Review B, 2007, 75, .	3.2	18
47	Ti- and Sr-rich surfaces of SrTiO <sub>3</sub> studied by grazing incidence x-ray diffraction. Applied Physics Letters, 2007, 91, 101910.	3.3	22
48	Neutron irradiation effects on two gaps in MgB <sub>2</sub> . Physica C: Superconductivity and Its Applications, 2007, 456, 144-152.	1.2	13
49	Scanning tunneling spectroscopy on neutron irradiated MgB <sub>2</sub> thin films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 574-575.	1.2	0
50	Effect of strain in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> epitaxial films with different crystallographic orientation. Journal of Alloys and Compounds, 2006, 423, 228-231.	5.5	9
51	Direct observation of spectroscopic inhomogeneities on La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films by scanning tunnelling spectroscopy. Journal of Physics Condensed Matter, 2006, 18, 8195-8204.	1.8	8
52	Effect of disorder in MgB <sub>2</sub> thin films. Physical Review B, 2005, 71, .	3.2	40
53	Role of hydrostatic paradoxes towards the formation of the scientific thought of students at academic level. European Journal of Physics, 2005, 26, 1017-1030.	0.6	6
54	Critical currents of MgB <sub>2</sub> thin films deposited in situ by sputtering. Physical Review B, 2003, 67, .	3.2	41

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55	HIGH QUALITY FULLY IN-SITU MgB <sub>2</sub> THIN FILMS OBTAINED BY DC MAGNETRON SPUTTERING. International Journal of Modern Physics B, 2003, 17, 779-784.	2.0	3
56	In situ sputtering growth and characterization of MgB <sub>2</sub> /sub 2/ films for microwave applications. IEEE Transactions on Applied Superconductivity, 2003, 13, 3602-3605.	1.7	1
57	STM tunneling spectroscopic studies of YNd <sub>x</sub> Ba <sub>2-x</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films. Physical Review B, 2002, 65, .	3.2	9
58	High-quality MgB <sub>2</sub> thin films in situ grown by dc magnetron sputtering. Superconductor Science and Technology, 2002, 15, 1236-1239.	3.5	33
59	Surface impedance of R <sub>1</sub> (Nd <sub>x</sub> Ba <sub>2-x</sub> )Cu <sub>3</sub> O <sub>7-δ</sub> (R=Nd, Y) thin films. Physica C: Superconductivity and Its Applications, 2002, 372-376, 703-705.	1.2	0
60	Superconducting properties of YNdBaCuO and NdBaCuO thin films deposited by dc sputtering. IEEE Transactions on Applied Superconductivity, 2001, 11, 3201-3204.	1.7	7
61	Superconducting properties of LuNi <sub>2</sub> B <sub>2</sub> C films and junctions. Physica C: Superconductivity and Its Applications, 2000, 341-348, 757-758.	1.2	6
62	SUPERCONDUCTING PROPERTIES OF LuNi <sub>2</sub> B <sub>2</sub> C THIN FILMS. International Journal of Modern Physics B, 2000, 14, 2743-2748.	2.0	1
63	Ferromagnetic Quasi-Two-Dimensional Electron Gas with Trigonal Crystal Field Splitting. ACS Applied Electronic Materials, 0, , .	4.3	5