Riccardo Arpaia

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9425217/publications.pdf

Version: 2024-02-01

51	1,090	361413	414414
papers	citations	20 h-index	32 g-index

53	53	53	1254
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mapping the Phase Diagram of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:mi>Ba</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></ Nanowire Through Electromigration. Physical Review Applied, 2022, 17, .	4.6	5
2	Doping dependence of the electron-phonon coupling in two families of bilayer superconducting cuprates. Physical Review B, 2022, 105, .	3.2	7
3	Fractional Spin Excitations in the Infinite-Layer Cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaCuO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr Physical Review X, 2022, 12, .	8.9	8
4	Evolution of spin excitations from bulk to monolayer FeSe. Nature Communications, 2021, 12, 3122.	12.8	29
5	Restored strange metal phase through suppression of charge density waves in underdoped YBa ₂ Cu ₃ O _{7â€“Î´}. Science, 2021, 373, 1506-1510.	12.6	21
6	Charge Order at High Temperature in Cuprate Superconductors. Journal of the Physical Society of Japan, 2021, 90, 111005.	1.6	38
7	Strange metal behaviour from charge density fluctuations in cuprates. Communications Physics, 2021, 4, .	5.3	29
8	SQUID Magnetometer Based on Grooved Dayem Nanobridges and a Flux Transformer. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.7	13
9	Properties of grooved Dayem bridge based YBa2Cu3 O 7 â^' Î´ superconducting quantum interference devices and magnetometers. Applied Physics Letters, 2020, 116, 132601.	3.3	20
10	Mobile orbitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> : Crucial role of Hund's exchange. Physical Review B, 2020, 101, .	3.2	10
11	Fabrication and electrical transport characterization of high quality underdoped YBa₂Cu₃O_{7-Î´} nanowires. Superconductor Science and Technology, 2020, 33, 064002.	3.5	8
12	Determining the electron-phonon coupling in superconducting cuprates by resonant inelastic x-ray scattering: Methods and results on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mrow><mml:mn>6</mml:mn><mml:mo>+</mml:mo><mml:mi>δ</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> mathva. Physical Review Research, 2020, 2, .	3.6	20
13	Low temperature hidden Fermi-liquid charge transport in under doped La x Sr1â^'x CuO2 infinite layer electron-doped thin films. Journal of Physics Condensed Matter, 2019, 31, 445601.	1.8	2
14	Experimental Determination of Momentum-Resolved Electron-Phonon Coupling. Physical Review Letters, 2019, 123, 027001.	7.8	39
15	Dynamical charge density fluctuations pervading the phase diagram of a Cu-based high- T _c superconductor. Science, 2019, 365, 906-910.	12.6	125
16	Transport and noise properties of YBCO nanowire based nanoSQUIDs. Superconductor Science and Technology, 2019, 32, 073001.	3.5	23
17	Grooved Dayem Nanobridges as Building Blocks of High-Performance YBa₂Cu₃O_{7â^'Î´} SQUID Magnetometers. Nano Letters, 2019, 19, 1902-1907.	9.1	23
18	SQUID magnetometer based on Grooved Dayem nanobridges and a flux transformer. , 2019, , .		0

#	Article	IF	Citations
19	Untwinned <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> thin films on MgO substrates: A platform to study strain effects on the local orders in cuprates. Physical Review Materials, 2018, 2, .	2.4	9
20	Probing the phase diagram of cuprates with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> thin films and nanowires. Physical Review Materials, 2018, 2, .	2.4	27
21	Investigation of dark counts in innovative materials for superconducting nanowire single-photon detector applications. , 2017, , .		1
22	Observation of dark pulses in 10 nm thick YBCO nanostrips presenting hysteretic current voltage characteristics. Superconductor Science and Technology, 2017, 30, 12LT02.	3.5	24
23	Transport properties of ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> nanowires: A route to single-photon detection. Physical Review B, 2017, 96, .	3.7	37
24	Noise Properties of YBCO Nanostructures. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	5
25	Study of in-plane electrical transport anisotropy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>a</mml:mi></mml:math> -axis oriented <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> nanodevices. Physical Review B, 2017, 95, .	3.2	7
26	Growth of ultrathin twin-free b-oriented YBa2Cu3O7 â€“ x films. Crystallography Reports, 2017, 62, 127-132.	0.6	2
27	Improved noise performance of ultrathin YBCO Dayem bridge nanoSQUIDs. Superconductor Science and Technology, 2017, 30, 014008.	3.5	16
28	Induced unconventional superconductivity on the surface states of Bi2Te3 topological insulator. Nature Communications, 2017, 8, 2019.	12.8	40
29	Toward ultra high magnetic field sensitivity YBa2Cu3O7â^’Î´ nanowire based superconducting quantum interference devices. Journal of Applied Physics, 2016, 119, .	2.5	18
30	Hot spot formation in electron-doped PCCO nanobridges. Physical Review B, 2016, 94, .	3.2	19
31	Superconducting properties of noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mrow><mml:mn>0.82</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Re</mml:mi><mml:mn>0.18</mml:mn></mml:msub></mml:mrow></mml:math> films probed by transport and tunneling experiments. Physical Review B, 2016, 94, .	3.2	19
32	Fabricating Nanogaps in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>YBa</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:mrow></mml:math> Physical Review Applied, 2015, 4, .	3.8	18
33	Y-Ba-Cu-O nanostripes for optical photon detection. , 2015, , .		0
34	The Role of Quantum Interference Effects in Normal-State Transport Properties of Electron-Doped Cuprates. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3481-3486.	1.8	7
35	Toward <inline-formula> <tex-math notation="TeX">$\hbox{YBa}_{2}\hbox{Cu}_{3}\hbox{O}_{7-\delta}$</tex-math></inline-formula> Nanoscale Structures for Hybrid Devices. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	11
36	Growth of twin-free b-oriented YBa2Cu3O7 â^’ x films. Crystallography Reports, 2015, 60, 393-396.	0.6	3

#	Article	IF	Citations
37	High-temperature superconducting nanowires for photon detection. Physica C: Superconductivity and Its Applications, 2015, 509, 16-21.	1.2	30
38	Ablation replacement of iron with Co, Mn, Ni, and Cu during growth of iron-based superconductor films in the Fe0.9 M 0.1Se0.92 system. Crystallography Reports, 2014, 59, 739-743.	0.6	2
39	YBa 2 Cu 3 O 7â^'Î´ nanorings to probe fluxoid quantization in High Critical Temperature Superconductors. Physica C: Superconductivity and Its Applications, 2014, 506, 184-187.	1.2	13
40	Resistive state triggered by vortex entry in YBa 2 Cu 3 O 7â^'Î´ nanostructures. Physica C: Superconductivity and Its Applications, 2014, 506, 165-168.	1.2	16
41	Influence of topological edge states on the properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Al</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mo>3</mml:mo></mml:msub></mml:math> Josephson devices. Physical Review B, 2014, 89, .	3.2	31
42	Ultra low noise YBa2Cu3O7â^'Î´ nano superconducting quantum interference devices implementing nanowires. Applied Physics Letters, 2014, 104, .	3.3	57
43	Highly homogeneous YBCO/LSMO nanowires for photoresponse experiments. Superconductor Science and Technology, 2014, 27, 044027.	3.5	29
44	Josephson effect in Al/Bi2Se3/Al coplanar hybrid devices. Physica C: Superconductivity and Its Applications, 2014, 503, 162-165.	1.2	7
45	Phase transition of bismuth telluride thin films grown by MBE. Applied Physics Express, 2014, 7, 045503.	2.4	22
46	Evolution of nanostructures of anatase TiO2 thin films grown on (001) LaAlO3. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	10
47	Approaching the theoretical depairing current in YBa2Cu3O7â^'x nanowires. Physica C: Superconductivity and Its Applications, 2013, 495, 33-38.	1.2	36
48	Microwave Response of Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold">Y</mml:mi><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mi mathvariant="bold">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo mathvariant="bold">â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>Nanowire Bridges Sustaining the Critical Depairing Current: Evidence of Josephson-lik. Physical Review Letters, 2	7.8	58
49	Investigation into the growth and structure of thin-film solid solutions of iron-based superconductors in the FeSe0.92-FeSe0.5Te0.5 system. Crystallography Reports, 2013, 58, 735-738.	0.6	6
50	Improved Nanopatterning for YBCO Nanowires Approaching the Depairing Current. IEEE Transactions on Applied Superconductivity, 2013, 23, 1101505-1101505.	1.7	42
51	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml:	3.2	18