

Riccardo Arpaia

List of Publications by Year in descending order

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

Version: 2024-02-01

51
papers

1,090
citations

361413

20
h-index

414414

32
g-index

53
all docs

53
docs citations

53
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical charge density fluctuations pervading the phase diagram of a Cu-based high- T_c superconductor. Science, 2019, 365, 906-910.	12.6	125
2	Influence of topological edge states on the properties of Al _{1-x} Bi _x Josephson devices. Physical Review B, 2014, 89, 040501.	3.2	81
3	$YBa_2Cu_3O_{7-x}$ Nanowire Bridges Sustaining the Critical Depairing Current. Evidence of Josephson-like. Physical Review Letters, 2014, 112, 077001.	7.8	58
4	Ultra low noise YBa ₂ Cu ₃ O _{7-x} nano superconducting quantum interference devices implementing nanowires. Applied Physics Letters, 2014, 104, .	3.3	57
5	Improved Nanopatterning for YBCO Nanowires Approaching the Depairing Current. IEEE Transactions on Applied Superconductivity, 2013, 23, 1101505-1101505.	1.7	42
6	Induced unconventional superconductivity on the surface states of Bi ₂ Te ₃ topological insulator. Nature Communications, 2017, 8, 2019.	12.8	40
7	Experimental Determination of Momentum-Resolved Electron-Phonon Coupling. Physical Review Letters, 2019, 123, 027001.	7.8	39
8	Charge Order at High Temperature in Cuprate Superconductors. Journal of the Physical Society of Japan, 2021, 90, 111005.	1.6	38
9	Transport properties of ultrathin YBa ₂ Cu ₃ O _{7-x} nanowires: A route to single-photon detection. Physical Review B, 2017, 96, .	3.7	37
10	Approaching the theoretical depairing current in YBa ₂ Cu ₃ O _{7-x} nanowires. Physica C: Superconductivity and Its Applications, 2013, 495, 33-38.	1.2	36
11	High-temperature superconducting nanowires for photon detection. Physica C: Superconductivity and Its Applications, 2015, 509, 16-21.	1.2	30
12	Highly homogeneous YBCO/LSMO nanowires for photoresponse experiments. Superconductor Science and Technology, 2014, 27, 044027.	3.5	29
13	Evolution of spin excitations from bulk to monolayer FeSe. Nature Communications, 2021, 12, 3122.	12.8	29
14	Strange metal behaviour from charge density fluctuations in cuprates. Communications Physics, 2021, 4, .	5.3	29
15	Probing the phase diagram of cuprates with YBa ₂ Cu ₃ O _{7-x} thin films and nanowires. Physical Review Materials, 2018, 2, .	3.7	27
16	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
17	Transport and noise properties of YBCO nanowire based nanoSQUIDs. Superconductor Science and Technology, 2019, 32, 073001.	3.5	23
18	Grooved Dayem Nanobridges as Building Blocks of High-Performance YBa ₂ Cu ₃ O _{7-x} SQUID Magnetometers. Nano Letters, 2019, 19, 1902-1907.	9.1	23

#	ARTICLE	IF	CITATIONS
19	Phase transition of bismuth telluride thin films grown by MBE. Applied Physics Express, 2014, 7, 045503.	2.4	22
20	Restored strange metal phase through suppression of charge density waves in underdoped YBa ₂ Cu ₃ O _{7-δ} . Science, 2021, 373, 1506-1510.	12.6	21
21	Properties of grooved Dayem bridge based YBa ₂ Cu ₃ O _{7-δ} superconducting quantum interference devices and magnetometers. Applied Physics Letters, 2020, 116, 132601.	3.3	20
22	Determining the electron-phonon coupling in superconducting cuprates by resonant inelastic x-ray scattering: Methods and results on Nd _{1-x} Bi _x Bi ₂ Se ₃ . Physical Review Research, 2020, 2, .	3.6	20
23	Hot spot formation in electron-doped PCCO nanobridges. Physical Review B, 2016, 94, .	3.2	19
24	Superconducting properties of noncentrosymmetric Nb _{0.18} Bi _{0.82} films probed by transport and tunneling experiments. Physical Review B, 2016, 94, .	3.2	19
25	Fabricating Nanogaps in YBa ₂ Cu ₃ O _{7-δ} nanowires. Physical Review Applied, 2015, 4, .	3.2	18
26	Toward ultra high magnetic field sensitivity YBa ₂ Cu ₃ O _{7-δ} nanowire based superconducting quantum interference devices. Journal of Applied Physics, 2016, 119, .	2.5	18
27	Resistive state triggered by vortex entry in YBa ₂ Cu ₃ O _{7-δ} nanostructures. Physica C: Superconductivity and Its Applications, 2014, 506, 165-168.	1.2	16
28	Improved noise performance of ultrathin YBCO Dayem bridge nanoSQUIDs. Superconductor Science and Technology, 2017, 30, 014008.	3.5	16
29	YBa ₂ Cu ₃ O _{7-δ} nanorings to probe fluxoid quantization in High Critical Temperature Superconductors. Physica C: Superconductivity and Its Applications, 2014, 506, 184-187.	1.2	13
30	SQUID Magnetometer Based on Grooved Dayem Nanobridges and a Flux Transformer. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.7	13
31	Toward Nanoscale Structures for Hybrid Devices. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	11
32	Evolution of nanostructures of anatase TiO ₂ thin films grown on (001) LaAlO ₃ . Journal of Nanoparticle Research, 2013, 15, 1.	1.9	10
33	Mobile orbitons in Ca ₂ Bi ₂ Se ₃ : Crucial role of Hund's exchange. Physical Review B, 2020, 101, .	3.2	10
34	Untwinned YBa ₂ Cu ₃ O _{7-δ} thin films on MgO substrates: A platform to study strain effects on the local orders in cuprates. Physical Review Materials, 2019, 3, .	2.1	9
35	Fabrication and electrical transport characterization of high quality underdoped YBa ₂ Cu ₃ O _{7-δ} nanowires. Superconductor Science and Technology, 2020, 33, 064002.	3.5	8

#	ARTICLE	IF	CITATIONS
37	Fractional Spin Excitations in the Infinite-Layer Cuprate CaCuO_2 Physical Review X, 2022, 12, .	8.9	8
38	Josephson effect in Al/Bi2Se3/Al coplanar hybrid devices. Physica C: Superconductivity and Its Applications, 2014, 503, 162-165.	1.2	7
39	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
40	Study of in-plane electrical transport anisotropy of a -axis oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ nanodevices. Physical Review B, 2017, 95, .	3.2	7
41	Doping dependence of the electron-phonon coupling in two families of bilayer superconducting cuprates. Physical Review B, 2022, 105, .	3.2	7
42	Investigation into the growth and structure of thin-film solid solutions of iron-based superconductors in the $\text{FeSe}_{0.92}\text{-FeSe}_{0.5}\text{Te}_{0.5}$ system. Crystallography Reports, 2013, 58, 735-738.	0.6	6
43	Noise Properties of YBCO Nanostructures. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	5
44	Mapping the Phase Diagram of a $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Nanowire Through Electromigration. Physical Review Applied, 2022, 17, .	1.8	5
45	Growth of twin-free b -oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. Crystallography Reports, 2015, 60, 393-396.	0.6	3
46	Ablation replacement of iron with Co, Mn, Ni, and Cu during growth of iron-based superconductor films in the $\text{Fe}_{0.9}\text{M}_{0.1}\text{Se}_{0.92}$ system. Crystallography Reports, 2014, 59, 739-743.	0.6	2
47	Growth of ultrathin twin-free b -oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. Crystallography Reports, 2017, 62, 127-132.	0.6	2
48	Low temperature hidden Fermi-liquid charge transport in under doped $\text{La}_x\text{Sr}_{1-x}\text{CuO}_2$ infinite layer electron-doped thin films. Journal of Physics Condensed Matter, 2019, 31, 445601.	1.8	2
49	Investigation of dark counts in innovative materials for superconducting nanowire single-photon detector applications. , 2017, , .		1
50	Y-Ba-Cu-O nanostripes for optical photon detection. , 2015, , .		0
51	SQUID magnetometer based on Grooved Dayem nanobridges and a flux transformer. , 2019, , .		0