

Robert C Dyne

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/833121/publications.pdf>

Version: 2024-02-01

53
papers

5,234
citations

279487

23
h-index

189595

50
g-index

53
all docs

53
docs citations

53
times ranked

3105
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuromorphic computing: Challenges from quantum materials to emergent connectivity. Applied Physics Letters, 2022, 120, .	1.5	9
2	Superconducting disordered neural networks for neuromorphic processing with fluxons. Science Advances, 2022, 8, eabn4485.	4.7	7
3	Oxide superconductorsâ€”light on a continuing mystery. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2024422118.	3.3	0
4	<i>Operando</i> characterization of conductive filaments during resistive switching in Mott VO₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
5	Superconducting neural networks with disordered Josephson junction array synaptic networks and leaky integrate-and-fire loop neurons. Journal of Applied Physics, 2021, 129, .	1.1	21
6	Low-temperature emergent neuromorphic networks with correlated oxide devices. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
7	Inherent stochasticity during insulatorâ€”metal transition in VO₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
8	Restingâ€”state magnetoencephalography source magnitude imaging with deepâ€”learning neural network for classification of symptomatic combatâ€”related mild traumatic brain injury. Human Brain Mapping, 2021, 42, 1987-2004.	1.9	5
9	Micrometer Scale Yâ€”Baâ€”Cuâ€”O SQUID Arrays Fabricated With a Focused Helium Ion Beam. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.1	2
10	Direct-coupled micro-magnetometer with Y-Ba-Cu-O nano-slit SQUID fabricated with a focused helium ion beam. Applied Physics Letters, 2018, 113, 162602.	1.5	33
11	Superconducting Nano Wire Circuits Fabricated using a Focused Helium Beam. Microscopy and Microanalysis, 2015, 21, 1997-1998.	0.2	1
12	Application of Focused Helium Ion Beams for Direct-write Lithography of Superconducting Electronics. Microscopy and Microanalysis, 2015, 21, 2321-2322.	0.2	0
13	Nano Josephson superconducting tunnel junctions in YBa ₂ Cu ₃ O ₇ â€” directly patterned with a focused helium ion beam. Nature Nanotechnology, 2015, 10, 598-602.	15.6	146
14	Large scale two-dimensional arrays of magnesium diboride superconducting quantum interference devices. Applied Physics Letters, 2014, 104, 182604.	1.5	9
15	Large voltage modulation in magnetic field sensors from two-dimensional arrays of Y-Ba-Cu-O nano Josephson junctions. Applied Physics Letters, 2014, 104, .	1.5	31
16	Comparison of Yâ€”Baâ€”Cuâ€”O Films Irradiated With Helium and Neon Ions for the Fabrication of Josephson Devices. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	10
17	Fabrication of Arrays of Nano-Superconducting Quantum Interference Devices Using a Double-Angle Processing Approach. IEEE Transactions on Applied Superconductivity, 2013, 23, 1100604-1100604.	1.1	1
18	Nanometer scale high-aspect-ratio trench etching at controllable angles using ballistic reactive ion etching. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 010604.	0.6	9

#	ARTICLE	IF	CITATIONS
19	Comparison of measurements and simulations of series-parallel incommensurate area superconducting quantum interference device arrays fabricated from $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ ion damage Josephson junctions. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	28
20	LOCALIZATION AND THE METAL-INSULATOR TRANSITION EXPERIMENTAL OBSERVATIONS. <i>International Journal of Modern Physics B</i> , 2010, 24, 2072-2089.	1.0	3
21	Josephson scanning tunneling microscopy: A local and direct probe of the superconducting order parameter. <i>Physical Review B</i> , 2009, 80, .	1.1	23
22	Very Large Scale Integration of Nanopatterned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Josephson Junctions in a Two-Dimensional Array. <i>Nano Letters</i> , 2009, 9, 3581-3585.	4.5	48
23	Series array of incommensurate superconducting quantum interference devices from $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ ion damage Josephson junctions. <i>Applied Physics Letters</i> , 2008, 93, 182502.	1.5	37
24	Scanning Josephson Tunneling Microscopy of Single-Crystal Bi_2O_8 on a Conventional Superconducting Tip. <i>Physical Review Letters</i> , 2008, 101, 037002.	2.0	18
25	Improved Fitting Of the Spin Polarized Tunneling Conductance Near the Metal-Insulator Transition. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
26	Planar MgB_2 Josephson junctions and series arrays via nanolithography and ion damage. <i>Applied Physics Letters</i> , 2006, 88, 012509.	1.5	44
27	Negative magnetoresistance, negative electroresistance, and metallic behavior on the insulating side of the two-dimensional superconductor-insulator transition in granular Pb films. <i>Physical Review B</i> , 2006, 73, .	1.1	21
28	Variation of the density of states in amorphous GdSi at the metal-insulator transition. <i>Physical Review B</i> , 2004, 69, .	1.1	14
29	Proximity effect in ultrathin Pb/Ag multilayers within the Cooper limit. <i>Physical Review B</i> , 2003, 68, .	1.1	17
30	Crossover from two- to three-dimensional magnetic disorder in submonoatomic ferromagnetic layers. <i>Physical Review B</i> , 2003, 68, .	1.1	1
31	Josephson Effect in Pb/I/NbSe ₂ Scanning Tunneling Microscope Junctions. <i>International Journal of Modern Physics B</i> , 2003, 17, 3569-3574.	1.0	17
32	Spin Polarized Tunneling at the Metal-Insulator Transition. <i>International Journal of Modern Physics B</i> , 2003, 17, 3723-3725.	1.0	4
33	Do ballistic channels contribute to the magnetoresistance in magnetic tunnel junctions?. <i>Applied Physics Letters</i> , 2002, 80, 285-287.	1.5	8
34	Universal transport in two-dimensional granular superconductors. <i>Physical Review B</i> , 2002, 66, .	1.1	48
35	Granular superconductors and ferromagnets: A proximity-effect-based analogue. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 1153-1165.	0.6	17
36	Crossover from phase fluctuation to amplitude-dominated superconductivity: A model system. <i>Physical Review B</i> , 2001, 63, .	1.1	79

#	ARTICLE	IF	CITATIONS
37	The fabrication of reproducible superconducting scanning tunneling microscope tips. Review of Scientific Instruments, 2001, 72, 1688.	0.6	25
38	Fluctuation Dominated Josephson Tunneling with a Scanning Tunneling Microscope. Physical Review Letters, 2001, 87, 097004.	2.9	83
39	Transport properties of high-Tc planar Josephson junctions fabricated by nanolithography and ion implantation. Journal of Applied Physics, 2000, 87, 2978-2983.	1.1	48
40	Superconducting tunneling as a probe of sputtered oxide barriers. Applied Physics Letters, 1999, 75, 127-129.	1.5	7
41	Effect of ion-irradiation-induced disorder on the low-field magnetoresistance of La _{0.67} A _{0.33} MnO ₃ (A= Sr, Ca). Journal of Applied Physics, 1999, 85, 4791-4793.	1.1	8
42	c-axis Josephson Tunneling between YBa ₂ Cu ₃ O _{7-δ} and Pb: Direct Evidence for Mixed Order Parameter Symmetry in a High-Tc Superconductor. Physical Review Letters, 1997, 79, 3050-3053.	2.9	195
43	Pair Tunneling from c-Axis YBa ₂ Cu ₃ O _{7-δ} to Pb: Evidence for s-Wave Component from Microwave Induced Steps. Physical Review Letters, 1996, 76, 2161-2164.	2.9	128
44	Observation of a Discontinuous Transition from Strong to Weak Localization in 1D Granular Metal Wires. Physical Review Letters, 1996, 76, 668-671.	2.9	59
45	Direction of tunneling in Pb/I/YBa ₂ Cu ₃ O _{7-δ} tunnel junctions. Physical Review B, 1996, 54, 6734-6741.	1.1	65
46	Fabrication of all thin film YBa ₂ Cu ₃ O _{7-δ} /Pb Josephson tunnel junctions. Applied Physics Letters, 1995, 66, 105-107.	1.5	54
47	Observation of Josephson pair tunneling between a high-Tc cuprate (YBa ₂ Cu ₃ O _{7-δ}) and a conventional superconductor (Pb). Physical Review Letters, 1994, 72, 2267-2270.	2.9	418
48	Synthesis and properties of a-axis and b-axis oriented GdBa ₂ Cu ₃ O _{7-δ} high Tc thin films. Applied Physics Letters, 1992, 61, 2598-2600.	1.5	23
49	Conduction and superconductivity in quench condensed metallic films. AIP Conference Proceedings, 1992, , .	0.3	1
50	Electron tunneling into single crystals of YBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 1991, 44, 11986-11996.	1.1	97
51	Reproducible tunneling data on chemically etched single crystals of YBa ₂ Cu ₃ O ₇ . Physical Review Letters, 1989, 63, 1008-1011.	2.9	431
52	Ion-beam-induced metal-insulator transition in YBa ₂ Cu ₃ O _{7-δ} : A mobility edge. Physical Review B, 1989, 39, 11599-11602.	1.1	144
53	Transition temperature of strong-coupled superconductors reanalyzed. Physical Review B, 1975, 12, 905-922.	1.1	2,690