Shane A Cybart

List of Publications by Year
in descending order

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47	1,689	567281 15	276875 41
papers	citations	h-index	g-index

48	48	48	2328
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reversible electric control of exchange bias in a multiferroic field-effect device. Nature Materials, 2010, 9, 756-761.	27.5	633
2	Full Electric Control of Exchange Bias. Physical Review Letters, 2013, 110, 067202.	7.8	252
3	Nano Josephson superconducting tunnel junctions in YBa2Cu3O7â€“Î´ directly patterned with a focused helium ion beam. Nature Nanotechnology, 2015, 10, 598-602.	31.5	146
4	Very Large Scale Integration of Nanopatterned YBa₂Cu₃O_{7â^'Î´} Josephson Junctions in a Two-Dimensional Array. Nano Letters, 2009, 9, 3581-3585.	9.1	48
5	YBa2Cu3O7â^'Î´ superconducting quantum interference devices with metallic to insulating barriers written with a focused helium ion beam. Applied Physics Letters, 2015, 106, .	3.3	45
6	Planar MgB2 Josephson junctions and series arrays via nanolithography and ion damage. Applied Physics Letters, 2006, 88, 012509.	3.3	44
7	Superconducting nano Josephson junctions patterned with a focused helium ion beam. Applied Physics Letters, 2018, 113, .	3.3	44
8	Series array of incommensurate superconducting quantum interference devices from YBa2Cu3O7â^'Î´ ion damage Josephson junctions. Applied Physics Letters, 2008, 93, 182502.	3.3	37
9	Planar thin film YBa2Cu3O7â^'Î´ Josephson junction pairs and arrays via nanolithography and ion damage. Applied Physics Letters, 2004, 85, 2863-2865.	3.3	35
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.	3.3	33
11	Large voltage modulation in magnetic field sensors from two-dimensional arrays of Y-Ba-Cu-O nano Josephson junctions. Applied Physics Letters, 2014, 104, .	3.3	31
12	Planar MgB2 superconductor-normal metal-superconductor Josephson junctions fabricated using epitaxial MgB2âˆ•TiB2 bilayers. Applied Physics Letters, 2006, 88, 222511.	3.3	29
13	Comparison of measurements and simulations of series-parallel incommensurate area superconducting quantum interference device arrays fabricated from YBa2Cu3O7â^' Î´ ion damage Josephson junctions. Journal of Applied Physics, 2012, 112, .	2.5	28
14	Temporal Stability of Yâ€“Baâ€“Cuâ€“O Nano Josephson Junctions from Ion Irradiation. IEEE Transactions on Applied Superconductivity, 2013, 23, 1100103-1100103.	1.7	15
15	Simulation of Series Arrays of Superconducting Quantum Interference Devices. IEEE Transactions on Applied Superconductivity, 2013, 23, 1600104-1600104.	1.7	13
16	Inductance Investigation of YBa₂Cu₃O_{7â^'Î´}Nano-Slit SQUIDs Fabricated With a Focused Helium Ion Beam. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	13
17	High-transition-temperature nanoscale superconducting quantum interference devices directly written with a focused helium ion beam. Applied Physics Letters, 2020, 116, .	3.3	13
18	Magnetic effects in sulfur-decorated graphene. Scientific Reports, 2016, 6, 21460.	3.3	11

#	Article	IF	Citations
19	Series arrays of planar long Josephson junctions for high dynamic range magnetic flux detection. AIP Advances, 2019, 9, .	1.3	11
20	Comparison of Yâ€“Baâ€“Cuâ€“O Films Irradiated With Helium and Neon Ions for the Fabricationof Josephson Devices. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	10
21	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.	1.2	9
22	Large scale two-dimensional arrays of magnesium diboride superconducting quantum interference devices. Applied Physics Letters, 2014, 104, 182604.	3.3	9
23	Do multiple Josephson junctions make better devices?. Superconductor Science and Technology, 2017, 30, 090201.	3.5	8
24	Superconducting disordered neural networks for neuromorphic processing with fluxons. Science Advances, 2022, 8, eabn4485.	10.3	7
25	Inductance of YBa$_{2}$Cu$_{3}$O$_{7-delta }$ Thin-Films With and Without Superconducting Ground Planes. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	6
26	Focused Helium and Neon Ion Beam Modification of High-T C Superconductors and Magnetic Materials. Nanoscience and Technology, 2016, , 415-445.	1.5	5
27	Tuning Yâ€“Baâ€“Cuâ€“O Focused Helium Ion Beam Josephson Junctions for Use as THz Mixers. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	4
28	Fabrication of Bi$_{2}$Sr$_{2}$CaCu$_{2}$O$_{8+x}$ ab-Plane Josephson Junctions by a Focused Helium Ion Beam. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	4
29	YBa$_{2}$Cu$_{3}$O$_{7-delta }$Single Flux Quantum Flip Flop Directly Written With a Focused Helium Ion Beam. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	4
30	Flux focused series arrays of long Josephson junctions for high-dynamic range magnetic field sensing. Journal of Applied Physics, 2022, 131, .	2.5	4
31	Investigation of Arrays of Two-Dimensional High-$T_ext{C}$ SQUIDs for Optimization of Electrical Properties. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	3
32	Fabrication of identical sub-100 nm closely spaced parallel lines using electron beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1887.	1.6	2
33	YBa<inline-formula> <tex-math notation="LaTeX">$_2$</tex-math> </inline-formula>Cu<inline-formula> <tex-math notation="LaTeX">$_3$</tex-math> </inline-formula>O<inline-formula> <tex-math notation="LaTeX">$_{7-delta }$</tex-math> </inline-formula>-CeO<inline-formula> <tex-math notation="LaTeX IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	2
34	Measurement of Magnetic Nanoparticles Using High Transition Temperature Superconducting Quantum Interference Devices. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	2
35	Estimation of Focused Helium Ion Beam Josephson Junction Width. , 2019, , .		2
36	Portable Solid Nitrogen Cooling System for High Transition Temperature Superconductive Electronics. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.7	2

#	Article	IF	Citations
37	Micrometer Scale Yâ€“Baâ€“Cuâ€“O SQUID Arrays Fabricated With a Focused Helium Ion Beam. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.7	2
38	Large-Scale Focused Helium Ion Beam Lithography. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	2
39	Fabrication of Arrays of Nano-Superconducting Quantum Interference Devices Using a Double-Angle Processing Approach. IEEE Transactions on Applied Superconductivity, 2013, 23, 1100604-1100604.	1.7	1
40	Superconducting Nano Wire Circuits Fabricated using a Focused Helium Beam. Microscopy and Microanalysis, 2015, 21, 1997-1998.	0.4	1
41	Electronic Feedback System for Superconducting Quantum Interference Devices. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	1
42	Application of Focused Helium Ion Beams for Direct-write Lithography of Superconducting Electronics. Microscopy and Microanalysis, 2015, 21, 2321-2322.	0.4	0
43	Series Arrays of Long Josephson Junctions Fabricated with a Focused Helium Ion Beam in YBa2Cu3O7-Î´ , 2019, , .		0
44	Inductance investigation of single layer and multilayer YBa2Cu3O7-Î´ thin films grown by reactive coevaporation. , 2019, , .		0
45	Portable Solid Nitrogen Cooling System for High Transition Temperature Superconductive Electronics. , 2019, , .		0
46	Direct-Write Ion Beam Irradiated Josephson Junctions. , 2019, , .		0
47	Bromine Etching of Patterned YBa₂Cu₃O_{6+x} Nanoscale Thin Films for High-Temperature Superconducting Devices. ACS Applied Nano Materials, 2021, 4, 12926-12931.	5.0	0