Christian Lacroix

List of Publications by Year
in descending order

40	500	687363 13	677142 22
papers	citations	h-index	g-index

40	40	40	557
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic anisotropy in arrays of Ni, CoFeB, and Ni/Cu nanowires. Journal of Applied Physics, 2007, 102, .	2.5	90
2	Concept of a current flow diverter for accelerating the normal zone propagation velocity in 2G HTS coated conductors. Superconductor Science and Technology, 2014, 27, 035003.	3.5	34
3	Normal Zone Propagation Velocity in 2G HTS Coated Conductor With High Interfacial Resistance. IEEE Transactions on Applied Superconductivity, 2013, 23, 4701605-4701605.	1.7	30
4	Epitaxially stabilized thin films of Îµ-Fe2O3 (001) grown on YSZ (100). Scientific Reports, 2017, 7, 3712.	3.3	30
5	Multi-scale model of resistive-type superconducting fault current limiters based on 2G HTS coated conductors. Superconductor Science and Technology, 2017, 30, 014005.	3.5	28
6	Engineering of second generation HTS coated conductor architecture to enhance the normal zone propagation velocity in various operating conditions. Superconductor Science and Technology, 2017, 30, 064004.	3.5	24
7	The effect of Al substitution on the structural and magnetic properties of epitaxial thin films of epsilon ferrite. Scripta Materialia, 2017, 140, 63-66.	5.2	20
8	EPR/FMR, FTIR, X-Ray and Raman Investigations of Fe-Doped SiCN Ceramics. Applied Magnetic Resonance, 2010, 38, 385-402.	1.2	19
9	Metal-organic vapor phase epitaxy of crystallographically oriented MnP magnetic nanoclusters embedded in GaP(001). Journal of Applied Physics, 2008, 104, 083501.	2.5	18
10	High normal zone propagation velocity in second generation high-temperature superconductor coated conductors with a current flow diverter architecture. Superconductor Science and Technology, 2014, 27, 055013.	3.5	18
11	Resistivity of REBCO tapes in overcritical current regime: impact on superconducting fault current limiter modeling. Superconductor Science and Technology, 2020, 33, 114008.	3.5	16
12	Resonance modes in arrays of interacting ferromagnetic nanowires subjected to a transverse static magnetic field. Applied Physics Letters, 2011, 98, 112502.	3.3	14
13	Collapse of the magnetization by the application of crossed magnetic fields: observations in a commercial Bi:2223/Ag tape and comparison with numerical computations. Superconductor Science and Technology, 2015, 28, 025012.	3.5	14
14	MnP nanoclusters embedded in GaP epitaxial films grown by organometallic vapor-phase epitaxy: A reciprocal space mapping and transmission electron microscopy study. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	13
15	Ferromagnetic resonance measurements of GaP epilayers with embedded MnP nanoclusters grown on GaP(001). Physical Review B, 2013, 87, .	3.2	13
16	Hysteresis loops revisited: An efficient method to analyze ferroic materials. Journal of Applied Physics, 2016, 120, .	2.5	13
17	Giant magneto-optical Faraday effect in GaP epilayers containing MnP magnetic nanoclusters. Journal of Applied Physics, 2010, 107, 09A949.	2.5	11
18	Overcritical Current Resistivity of YBCO-Coated Conductors Through Combination of PCM and Finite-Element Analysis. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	11

#	Article	IF	Citations
19	Adjusting the magnetic properties of semiconductor epilayers by the crystallographic orientation of embedded highly anisotropic magnetic nanoclusters. Journal of Applied Physics, 2009, 105, 07C119.	2.5	9
20	Successful DC current limitation above 100 Vm^{â^'1} for 50 ms using HTS tapes with critical currents exceeding 750 A/cm-width. Superconductor Science and Technology, 2021, 34, 025015.	3.5	9
21	Magnetic anisotropy in GaP(001) epilayers containing MnP nanoclusters observed by angle dependent ferromagnetic resonance measurements. Journal of Applied Physics, 2008, 103, 07D531.	2.5	8
22	Electro-Thermal Response of 2G HTS Coated Conductors Subjected to Current Pulses. IEEE Transactions on Applied Superconductivity, 2013, 23, 6601605-6601605.	1.7	8
23	High normal zone propagation velocity in copper-stabilized 2G HTS coated conductors. Superconductor Science and Technology, 2021, 34, 045010.	3.5	7
24	Use of the buffer layers as a current flow diverter in 2G HTS coated conductors. Superconductor Science and Technology, 2018, 31, 125019.	3.5	6
25	Post-processing method for extracting the resistivity of Rare-Earth Barium Copper Oxide (REBCO) coated conductors in over-critical current conditions from ultra-fast V-I pulsed current measurements. Journal of Applied Physics, 2019, 126, .	2.5	5
26	Impact of Current Flow Diverter on Innovative HTS Tape Architectures for DC Fault Current Limitation at Electric Fields up to 150 V/m. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.7	5
27	Effect of annealing on HTS tapes with a cerium oxide layer inserted between the REBaCuO and silver layers. Materialia, 2021, 15, 101029.	2.7	4
28	Normal zone propagation in various REBCO tape architectures. Superconductor Science and Technology, 2022, 35, 055009.	3.5	4
29	Chemical Solution Deposition of Insulating Yttria Nanolayers as Current Flow Diverter in Superconducting GdBa₂Cu₃O_{7â^'Î´} Coated Conductors. ACS Omega, 2022, 7, 15315-15325.	3.5	4
30	Analytical model of 2D electric potential and current transfer in superconducting tapes with a current flow diverter architecture. Superconductor Science and Technology, 2020, 33, 115014.	3.5	3
31	A wide range Eâ€‰â^'â€‰J constitutive law for simulating REBCO tapes above their critical current. Superconductor Science and Technology, 2021, 34, 115014.	3.5	3
32	Current redistribution during inhomogeneous quench of 2G HTS tapes. Superconductor Science and Technology, 2022, 35, 095003.	3.5	3
33	Concepts of static vs. dynamic current transfer length in 2G HTS coated conductors with a current flow diverter architecture. Superconductor Science and Technology, 2021, 34, 085001.	3.5	2
34	Impact of Inhomogeneities in HTS Coated Conductors for Resistive FCLs. Physics Procedia, 2012, 36, 1219-1224.	1.2	1
35	Surface induced magnetization reversal of MnP nanoclusters embedded in GaP. Journal of Applied Physics, 2016, 119, 103901.	2.5	1
36	Optimization Method for Extracting Stabilizer Geometry and Properties of REBCO Tapes. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1

#	Article	IF	Citations
37	Effect of dipolar interactions on cavity magnon polaritons. Physical Review B, 2020, 102, .	3.2	1
38	Strong coupling of electromagnetic and magnetic modes in a tunable waveguide cavity. , 2016, , .		0
39	Adaptive multi-scale electrothermal model of REBCO coated conductors embedded in a commercial power system transient simulator. Superconductor Science and Technology, 2019, 32, 105005.	3.5	0
40	Accelerating Quench Propagation in 2G HTS Coated Conductors by Engineering the Tape Architecture. Asian Journal of Social Science Studies, 2018, , 347-355.	0.1	0