

Christian Lacroix

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

500
citations

687363

13
h-index

677142

22
g-index

40
all docs

40
docs citations

40
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	Normal zone propagation in various REBCO tape architectures. Superconductor Science and Technology, 2022, 35, 055009.	3.5	4
2	Chemical Solution Deposition of Insulating Ytria Nanolayers as Current Flow Diverter in Superconducting $GdBa_2Cu_3O_{7-x}$ Coated Conductors. ACS Omega, 2022, 7, 15315-15325.	3.5	4
3	Current redistribution during inhomogeneous quench of 2G HTS tapes. Superconductor Science and Technology, 2022, 35, 095003.	3.5	3
4	Successful DC current limitation above $100 Vm^{-1}$ for 50 ms using HTS tapes with critical currents exceeding 750 A/cm-width. Superconductor Science and Technology, 2021, 34, 025015.	3.5	9
5	High normal zone propagation velocity in copper-stabilized 2G HTS coated conductors. Superconductor Science and Technology, 2021, 34, 045010.	3.5	7
6	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
7	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
8	Optimization Method for Extracting Stabilizer Geometry and Properties of REBCO Tapes. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1
9	A wide range $E \sim j$ constitutive law for simulating REBCO tapes above their critical current. Superconductor Science and Technology, 2021, 34, 115014.	3.5	3
10	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
11	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
12	Effect of dipolar interactions on cavity magnon polaritons. Physical Review B, 2020, 102, .	3.2	1
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Epitaxially stabilized thin films of $\hat{\mu}$ -Fe ₂ O ₃ (001) grown on YSZ (100). Scientific Reports, 2017, 7, 3712.	3.3	30
22	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
23	Hysteresis loops revisited: An efficient method to analyze ferroic materials. Journal of Applied Physics, 2016, 120, .	2.5	13
24	Strong coupling of electromagnetic and magnetic modes in a tunable waveguide cavity. , 2016, , .		0
25	Surface induced magnetization reversal of MnP nanoclusters embedded in GaP. Journal of Applied Physics, 2016, 119, 103901.	2.5	1
26	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
27	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
28	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
29	Electro-Thermal Response of 2G HTS Coated Conductors Subjected to Current Pulses. IEEE Transactions on Applied Superconductivity, 2013, 23, 6601605-6601605.	1.7	8
30	Ferromagnetic resonance measurements of GaP epilayers with embedded MnP nanoclusters grown on GaP(001). Physical Review B, 2013, 87, .	3.2	13
31	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
32	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
33	Impact of Inhomogeneities in HTS Coated Conductors for Resistive FCLs. Physics Procedia, 2012, 36, 1219-1224.	1.2	1
34	Resonance modes in arrays of interacting ferromagnetic nanowires subjected to a transverse static magnetic field. Applied Physics Letters, 2011, 98, 112502.	3.3	14
35	EPR/FMR, FTIR, X-Ray and Raman Investigations of Fe-Doped SiCN Ceramics. Applied Magnetic Resonance, 2010, 38, 385-402.	1.2	19
36	Giant magneto-optical Faraday effect in GaP epilayers containing MnP magnetic nanoclusters. Journal of Applied Physics, 2010, 107, 09A949.	2.5	11

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37	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
38	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
39	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
40	Magnetic anisotropy in arrays of Ni, CoFeB, and Ni/Cu nanowires. Journal of Applied Physics, 2007, 102, .	2.5	90