Boris Chesca

List of Publications by Year
in descending order

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46 papers	470 citations	840776 11 h-index	713466 21 g-index
46 all docs	46 docs citations	46 times ranked	292 citing authors

#	Article	IF	Citations
1	Design and realization of an all d-wave dc Ï€-superconducting quantum interference device. Applied Physics Letters, 2000, 76, 912-914.	3.3	118
2	Theory of RF SQUIDs Operating in the Presence of Large Thermal Fluctuations. Journal of Low Temperature Physics, 1998, 110, 963-1001.	1.4	44
3	Upper bound on the Andreev states induced second harmonic in the Josephson coupling ofYBa2Cu3O7â^'Î´/Nbjunctions from experiment and numerical simulations. Physical Review B, 2008, 77, .	3.2	27
4	Analytical Theory of DC SQUIDS Operating in the Presence of Thermal Fluctuations. Journal of Low Temperature Physics, 1998, 111, 165-196.	1.4	26
5	Flux-coherent series SQUID array magnetometers operating above 77â€‰K with superior white flux noise than single-SQUIDs at 4.2â€‰K. Applied Physics Letters, 2015, 107, .	3.3	24
6	Magnetic field dependencies of the critical current and of the resonant modes of dc SQUIDs fabricated from superconductors withs +idx2â€"y2 order-parameter symmetries. Annalen Der Physik, 1999, 8, 511-522.	2.4	23
7	d-Wave Induced Zero-Field Resonances in dcÏ€-Superconducting Quantum Interference Devices. Physical Review Letters, 2002, 88, 177003.	7.8	23
8	Observation of Andreev bound states inYBa2Cu3O7â^'xâ^•Auâ^•Nbramp-type Josephson junctions. Physical Review B, 2006, 73, .	3.2	21
9	SQUID Theory. , 2005, , 29-92.		20
10	Experimental study of amplitudeâ€"frequency characteristics of high-transition-temperature radio frequency superconducting quantum interference devices. Journal of Applied Physics, 2000, 88, 6781-6787.	2.5	18
11	The effect of thermal noise on the operation of DC SQUIDs at 77 K-a fundamental analytical approach. IEEE Transactions on Applied Superconductivity, 1999, 9, 2955-2960.	1.7	16
12	Phase Diagram of the Electron-DopedLa2â^'xCexCuO4Cuprate Superconductor from Andreev Bound States at Grain Boundary Junctions. Physical Review Letters, 2008, 100, 227001.	7.8	12
13	Transfer function and thermal noise of YBa2Cu3O7â^'Î´ direct current superconducting quantum interference devices operated under large thermal fluctuations. Applied Physics Letters, 1999, 74, 2209-2211.	3.3	11
14	Magnetic field tunable vortex diode made of YBa2Cu3O7â^'Î´ Josephson junction asymmetrical arrays. Applied Physics Letters, 2017, 111, .	3.3	10
15	Amplification of electromagnetic waves excited by a chain of propagating magnetic vortices in YBa2Cu3O7â^'ÎJosephson-junction arrays at 77 K and above. Superconductor Science and Technology, 2014, 27, 085015.	3.5	9
16	On the theoretical study of an RF-SQUID operation taking into account the noise influence. Journal of Low Temperature Physics, 1994, 94, 515-538.	1.4	7
17	On the theory of the RF pumped double SQUID. Physica C: Superconductivity and Its Applications, 1995, 241, 123-136.	1.2	7
18	Parallel array of YBa2Cu3O7â^'Î´ superconducting Josephson vortex-flow transistors with high current gains. Applied Physics Letters, 2013, 103, .	3.3	6

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19	A thermal-activation model for intrinsic noise in RF pumped double SQUID'S. Physica C: Superconductivity and Its Applications, 1996, 256, 261-282.	1.2	5
20	Title is missing!. Journal of Low Temperature Physics, 1999, 116, 167-186.	1.4	5
21	Progress in understanding of high-transition-temperature SQUIDs. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2555-2559.	1.2	5
22	SQUID-arrays coupled to on-chip integrated thin-film superconducting input coils operating coherently. Applied Physics Letters, 2021, 118, .	3.3	5
23	Radio Frequency SQUIDs and their Applications. , 2001, , 505-540.		5
24	Magnetic flux quantum periodicity of the frequency of the on-chip detectable electromagnetic radiation from superconducting flux-flow-oscillators. Applied Physics Letters, 2020, 117, 142601.	3.3	4
25	On the theory of the symmetrical double SQUID. Physica C: Superconductivity and Its Applications, 1994, 220, 249-257.	1.2	3
26	Theory of a UHF pumped double SQUID. Physica C: Superconductivity and Its Applications, 1996, 270, 1-20.	1.2	3
27	Electronic behavior of spatially distributed junction small inductance dc Ï€-SQUIDs. Physica C: Superconductivity and Its Applications, 2001, 350, 180-186.	1.2	3
28	Controlling Josephson dynamics by strong microwave fields. Physical Review B, 2008, 78, .	3.2	3
29	Josephson coupling in untwinned YBa2Cu3O7-x/Nb d-wave junctions. Journal of Physics: Conference Series, 2008, 97, 012095.	0.4	2
30	Dual flux-to-voltage response of YBa₂Cu₃O_{7â^'Î´}asymmetric parallel arrays of Josephson junctions. Superconductor Science and Technology, 2014, 27, 055019.	3.5	2
31	Order parameter phase sensitive experiments and SDJ dc SQUIDs. Physica C: Superconductivity and Its Applications, 2001, 357-360, 1561-1566.	1.2	1
32	Superconducting devices based on coherent operation of Josephson junction arrays above 77K. Journal of Physics: Conference Series, 2018, 1054, 012057.	0.4	1
33	Title is missing!. Annalen Der Physik, 1999, 8, 511-522.	2.4	1
34	RF double SQUID: statics, dynamics, signal and noise properties. European Physical Journal D, 1996, 46, 2813-2814.	0.4	0
35	A three-hole RF/UHF double squid as a natural second-order magnetic gradiometer. Physica C: Superconductivity and Its Applications, 1997, 273, 233-238.	1.2	0
36	Output signal and noise characteristics in RF pumped double SQUIDS. Journal of Low Temperature Physics, 1997, 106, 509-514.	1.4	0

#	Article	IF	Citations
37	Theory of rf SQUIDS operating at 77 K. Applied Superconductivity, 1999, 6, 829-835.	0.5	0
38	Phase-sensitive evidence for a predominant d-wave pairing symmetry in the electron doped superconductor La2â^'xCexCuO4â^'y. Physica C: Superconductivity and Its Applications, 2004, 408-410, 321-323.	1.2	0
39	Tuning the current-voltage characteristics of Josephson junctions by strong microwave fields. Journal of Physics: Conference Series, 2009, 150, 052034.	0.4	0
40	Current-Phase Relation of YBa₂Cu₃O_{7-X}/Nb Unconventional Superconductor Junctions. Materials Science Forum, 0, 670, 38-41.	0.3	0
41	Double rf-SQUIDs Operating in a Non-Adiabatic Regime: A Dream Comes True?. Physics Procedia, 2012, 36, 377-381.	1.2	0
42	Josephson Junctions Made of YBa2Cu3O7-x Superconducting Nanofilms. Physics Procedia, 2013, 40, 65-68.	1.2	0
43	2D SQIF arrays using 20 000 YBCO high RnJosephson junctions, a viewpoint. Superconductor Science and Technology, 2016, 29, 080501.	3.5	0
44	SQUID-Based Investigation of D-Wave Superconductor Junctions. Sensor Letters, 2009, 7, 263-265.	0.4	0
45	Tunnelling measurements as a new method of investigation of thin film superconducting cuprate junctions. WIT Transactions on Engineering Sciences, 2009, , .	0.0	0
46	Magnetic field dependencies of the critical current and of the resonant modes of dc SQUIDs fabricated from superconductors with s + id orderâ€parameter symmetries. Annalen Der Physik, 1999, 511, 511-522.	2.4	0