

# Miquel Carrera

## List of Publications by Year in descending order

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25  
papers

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citations

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all docs

25  
docs citations

25  
times ranked

227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposal of a Novel Design for Linear Superconducting Motor Using 2G Tape Stacks. IEEE Transactions on Industrial Electronics, 2018, 65, 7477-7484.	7.9	36
2	A new method of computation of current distribution maps in bulk high-temperature superconductors: analysis and validation. Superconductor Science and Technology, 2003, 16, 1187-1194.	3.5	27
3	In-field hall probe mapping system for characterization of YBCO welds. IEEE Transactions on Applied Superconductivity, 2003, 13, 3136-3139.	1.7	23
4	Characterization of superconducting rings using an in-field hall probe magnetic mapping system. IEEE Transactions on Applied Superconductivity, 2003, 13, 3667-3670.	1.7	23
5	Computation of Current Distribution in YBCO Tapes With Defects Obtained From Hall Magnetic Mapping by Inverse Problem Solution. IEEE Transactions on Applied Superconductivity, 2011, 21, 3408-3412.	1.7	22
6	H-Formulation FEM Modeling of the Current Distribution in 2G HTS Tapes and Its Experimental Validation Using Hall Probe Mapping. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-10.	1.7	19
7	Current distribution maps in large YBCO melt-textured blocks. Physica C: Superconductivity and Its Applications, 2003, 385, 539-543.	1.2	18
8	Critical Current Determination of Artificially Welded HTS Samples by In-Field Hall Mapping Technique. IEEE Transactions on Applied Superconductivity, 2005, 15, 3632-3635.	1.7	11
9	Determination of the inter- and intra-granular critical currents in superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> welds. Superconductor Science and Technology, 2005, 18, 1227-1232.	3.5	10
10	An effective model for fast computation of current distribution in operating HTS tapes from magnetic field measurements in non-destructive testing. Superconductor Science and Technology, 2012, 25, 104005.	3.5	8
11	Diamagnetism and critical currents of Bi <sub>1-x</sub> Ca <sub>x</sub> Sr <sub>1-x</sub> Cu <sub>1-x</sub> O samples. Cryogenics, 1989, 29, 379-383.	1.7	7
12	Twins, electron-phonon coupling and fluctuations in Y <sub>0.5</sub> Sm <sub>0.5</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Physica C: Superconductivity and Its Applications, 1989, 157, 285-292.	1.2	6
13	Current distribution in HTSC tapes obtained by inverse problem calculation. Journal of Physics: Conference Series, 2010, 234, 012009.	0.4	6
14	Detection of Current Distribution in Bulk Samples With Artificial Defects From Inversion of Hall Magnetic Maps. IEEE Transactions on Applied Superconductivity, 2009, 19, 3553-3556.	1.7	5
15	Y-Sm twinned and untwinned high temperature superconductors: a comparative study. Cryogenics, 1989, 29, 350-354.	1.7	4
16	Influence of Sb and Pb substitution on the physical properties of the Bi Sr Ca Cu O compounds. Physica C: Superconductivity and Its Applications, 1989, 162-164, 863-864.	1.2	3
17	On inhomogeneous superconductivity in Fe substituted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Physica C: Superconductivity and Its Applications, 1989, 162-164, 41-42.	1.2	3
18	On the effects of helium absorption on the superconducting onset of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Solid State Communications, 1989, 69, 1073-1077.	1.9	3

#	ARTICLE	IF	CITATIONS
19	Computation of critical current in artificially structured bulk samples from Hall measurements. Journal of Physics: Conference Series, 2008, 97, 012107.	0.4	3
20	Computation limits of Current Distribution in thick Superconducting Bulks from Magnetic Field Measurements. Journal of Physics: Conference Series, 2006, 43, 518-521.	0.4	1
21	Torsional Dependence of the Critical Current in 2G Tapes. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	1
22	Fluctuations and critical fields in (Y Sm) HTSC. Physica C: Superconductivity and Its Applications, 1989, 162-164, 723-724.	1.2	0
23	Metal-insulator transition in $\text{Bi}_2\text{Sr}_{1.6}\text{La}_{0.4}\text{CuO}_6$ induced by cation vacancies. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1307-1308.	1.2	0
24	Current Distribution in Wide YBCO Tapes. Physics Procedia, 2012, 36, 1625-1630.	1.2	0
25	Singular spectrum analysis filtering and Fourier inversion: an efficient and fast way to improve resolution and quality of current density maps with low-cost Hall scanning systems. Measurement Science and Technology, 2019, 30, 015010.	2.6	0