

Francisco Lera

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74
papers

706
citations

14
h-index

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g-index

78
ext. papers

740
ext. citations

2.7
avg, IF

3.04
L-index

#	Paper	IF	Citations
74	Quench development and propagation in metal/MgB ₂ conductors. <i>Superconductor Science and Technology</i> , 2006 , 19, 143-150	3.1	41
73	Superconducting weak links in YBa ₂ Cu ₃ O _{7-x} in AC magnetic susceptibility study. <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 69, L225-L229	2.8	38
72	Novel polymer solution synthesis of the 110 K superconducting phase in the bismuth system. <i>Chemistry of Materials</i> , 1993 , 5, 851-856	9.6	36
71	Polymer solution processing of (Bi, Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ . <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 509-510	1.3	34
70	Solution-based synthesis routes to (Bi _{1-x} Pb _x) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ . <i>Journal of Materials Research</i> , 1993 , 8, 1268-1276	2.5	29
69	(Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ superconductor composites: Ceramics vs. fibers. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2401-2402	1.3	28
68	Structural and magnetic study of Ho ₂ Fe ₁₄ BH _x (x = 0B.1). <i>Journal of the Less Common Metals</i> , 1991 , 171, 71-82		23
67	YBa ₂ Cu ₃ O _{7-x} low field diamagnetic properties. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 167, 549-559	1.3	22
66	Thermogravimetry and neutron thermodiffraction studies of the H-YBa ₂ Cu ₃ O ₇ system. <i>Journal of the Less Common Metals</i> , 1990 , 157, 233-244		22
65	Laser technologies applied to the fabrication and characterization of bulk Bi-2212 superconducting materials for power applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2931-2937	1.6	21
64	Accurately Locating a Vertical Magnetic Dipole Buried in a Conducting Earth. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010 , 48, 3676-3685	8.1	20
63	TDR pressure cell for monitoring water content retention and bulk electrical conductivity curves in undisturbed soil samples. <i>Hydrological Processes</i> , 2012 , 26, 246-254	3.3	18
62	Oxygen stoichiometry, critical temperature and pinning mechanisms in the 2212 BSCCO superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 203, 223-230	1.3	17
61	Ground robotics in tunnels: Keys and lessons learned after 10 years of research and experiments. <i>Journal of Field Robotics</i> , 2019 , 36, 1074-1101	6.7	15
60	Intergranular properties of YBCO and BSCCO ceramic superconductors at low fields. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 230, 361-370	1.3	14
59	Fabrication of Ag/(Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O superconducting tapes. <i>Cryogenics</i> , 1993 , 33, 117-123	1.8	14
58	Stoichiometry variation effect on the superconducting properties of polymer-processed (Bi _{1-x} Pb _x) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ ceramics. <i>Solid State Ionics</i> , 1993 , 63-65, 883-888	3.3	14

57	Transversal fading analysis in straight tunnels at 2.4 GHz 2013 ,		13
56	Application of DSPI to detect inhomogeneous heating on superconducting ceramics. <i>Measurement Science and Technology</i> , 2005 , 16, 1030-1036	2	13
55	Calculation of effective inductances of superconducting devices. Application to the cryogenic current comparator. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 58-62	1.8	13
54	Thermal, electric and magnetic anomalies in the spin reorientation phase transitions of RE ₂ Fe ₁₄ B. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 289-290	2.8	13
53	UHF and SHF Fading Analysis Using Wavelets in Tunnel Environments 2013 ,		12
52	LFZ growth of (Bi, Pb)Bi ₂ CaCuO ₈ superconducting fibers. <i>Journal of Materials Research</i> , 1991 , 6, 699-703	2.5	12
51	TDR-LAB 2.0 Improved TDR Software for Soil Water Content and Electrical Conductivity Measurements. <i>Procedia Environmental Sciences</i> , 2013 , 19, 474-483		11
50	RF odometry for localization in pipes based on periodic signal fadings 2014 ,		11
49	A Methodology for Localization in Tunnels Based on Periodic RF Signal Fadings 2014 ,		10
48	Magnetic relaxation of highly textured Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ polycrystalline fibres. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 271, 133-146	1.3	10
47	Hydrogenation, crystal structure and magnetic ordering of R ₂ Fe ₁₄ C (R = Sm, Er, Tm). <i>Journal of the Less Common Metals</i> , 1991 , 168, 321-328		10
46	Advances towards the rolling processing of long BSCCO tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 1833-1836	1.8	8
45	Critical state models for inter and intragranular flux pinning in HTS ceramics: universal scaling laws. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 615-616	2.8	8
44	Anisotropy in the diamagnetic properties of oriented Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ polycrystalline fibers. <i>Solid State Communications</i> , 1989 , 72, 1003-1008	1.6	8
43	Measurement of Soil Bulk Electrical Conductivity Using Partially Coated TDR Probes. <i>Vadose Zone Journal</i> , 2009 , 8, 594-600	2.7	7
42	Influence of oxygen stoichiometry on T _c and pinning force of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2475-2476	1.3	7
41	Diamagnetism and critical currents of Bi ₂ Ca ₂ Sr ₂ Cu ₃ O ₇ samples. <i>Cryogenics</i> , 1989 , 29, 379-383	1.8	7
40	Magnetic energy absorption in sintered YBa ₂ Cu ₃ O _{7-δ} samples. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 1533-1534	1.3	7

39	Quench detection in YBa ₂ Cu ₃ O _{7-δ} -coated conductors using interferometric techniques. <i>Journal of Applied Physics</i> , 2008 , 104, 093916	2.5	6
38	Critical current model analysis of inter- and intra-grain effects in a high density sintered Tl ₂ Ba ₂ Ca ₂ Cu ₂ O ceramic. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 183, 73-82	1.3	6
37	Non-linearity of the YBa ₂ Cu ₃ O _{7-δ} -low field diamagnetic properties: Multi-harmonic analysis.. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 325-326	1.3	6
36	Crystal structure and magnetism of Co(HPO ₃) \cdot H ₂ O: A novel layered compound of Co(II). <i>Journal of Applied Physics</i> , 1990 , 67, 5998-6000	2.5	6
35	3-D Fadings Structure Analysis in Straight Tunnels Toward Communication, Localization, and Navigation. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6123-6137	4.9	5
34	Through-the-earth magnetic field propagation: modelling and experimental validation 2006 ,		5
33	Microstructure origin of hot spots in textured laser zone melting Bi-2212 monoliths. <i>Superconductor Science and Technology</i> , 2005 , 18, 1489-1495	3.1	5
32	Magnetic and electric transport properties of Ag/(Bi,Pb) \cdot Sr \cdot Ca \cdot Cu \cdot O superconducting fibres. <i>Cryogenics</i> , 1992 , 32, 969-974	1.8	5
31	Ag/(Bi, Pb)-Sr-Ca-Cu-O superconducting tape processing: Solid state chemistry aspects. <i>Solid State Ionics</i> , 1993 , 63-65, 889-896	3.3	5
30	Diamagnetic properties of YBa ₂ Cu ₃ O _{7-δ} -resintered powders: Critical current densities and a.c. losses. <i>Cryogenics</i> , 1989 , 29, 1128-1134	1.8	5
29	Diamagnetism and electrical connectivity in an inhomogeneous Ba ₂ YCu ₃ O _{7-δ} superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 389-390	1.3	5
28	Avalanche beacon magnetic field calculations for rescue techniques improvement 2007 ,		4
27	D.c. field tuning of inter- and intragranular effects in Y \cdot Ba \cdot Cu \cdot O ceramics. <i>Cryogenics</i> , 1993 , 33, 314-320	1.8	4
26	Y-Sm twinned and untwinned high temperature superconductors: a comparative study. <i>Cryogenics</i> , 1989 , 29, 350-354	1.8	4
25	Critical currents and relaxation effects in Nd ₂ - δ Ce \cdot CuO ₄ δ single crystals. <i>Cryogenics</i> , 1990 , 30, 656-659	1.8	4
24	Microstructure and diamagnetism in superconducting TmBa ₂ Cu ₃ O _{7-δ} <i>Journal of Magnetism and Magnetic Materials</i> , 1988 , 74, 263-270	2.8	4
23	An alternative approach for robot localization inside pipes using RF spatial fadings. <i>Robotics and Autonomous Systems</i> , 2021 , 136, 103702	3.5	4
22	Guaranteeing Communication for Robotic Intervention in Long Tunnel Scenarios. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 691-703	0.4	3

21	Soil Bulk Electrical Conductivity Measurement using High-Dielectric Coated Time Domain Reflectometry Probes. <i>Soil Science Society of America Journal</i> , 2009 , 73, 21-27	2.5	3
20	Inductive and transport simultaneous measurements of the superconducting properties of YBaCuO ceramics: a comparative study. <i>Superconductor Science and Technology</i> , 1992 , 5, S415-S418	3.1	3
19	Influence of Sb and Pb substitution on the physical properties of the BiSrCaCuO compounds. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 863-864	1.3	3
18	On inhomogeneous superconductivity in Fe substituted YBa ₂ Cu ₃ O _{7-x} <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 41-42	1.3	3
17	Analysis of Quench Initiation in YBCO Coated Conductors Using Optical Interferometric Techniques. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 3479-3482	1.8	2
16	Through-the-earth magnetic field propagation: Modelling for underground applications 2009 ,		2
15	Interaction between parallel magnetic fields and transport currents in YBCO superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2989-2990	1.3	2
14	On the sensitivity of high-T _c superconducting ceramics as magnetic field sensors. <i>Sensors and Actuators A: Physical</i> , 1991 , 27, 775-780	3.9	2
13	Magnetic phase transitions in (Fe _{1-x} Ru _x) ₂ P (0.25 ≤ x ≤ 0.6). <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1993-1994	2.8	2
12	Laser floating zone growth of textured Ag/(Bi,Pb) _x Sr _y Ca _z Cu _{1-x-y-z} O superconductors. <i>Advanced Materials</i> , 1992 , 4, 505-508	2.4	2
11	Multipurpose Cryostat for Low Temperature Magnetic and Electric Measurements of Solids 1991 , 1-24		2
10	Wireless Propagation Characterization of Underground Sewers Towards Autonomous Inspections with Drones. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 849-860	0.4	2
9	A Computational Channel Model for Magnetic Induction-Based Subsurface Applications. <i>Radio Science</i> , 2019 , 54, 822-838	1.4	1
8	CCC inductances calculation: validity of the image method		1
7	Superconductor ceramics behavior analyses during service by speckle metrology 2005 ,		1
6	Superconducting composite wires and tapes. <i>Applied Superconductivity</i> , 1994 , 2, 377-385		1
5	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1993 , 42, 593-595	5.2	1
4	Thermal and magnetic properties of Bi ₂ CuO ₄ (abstract). <i>Journal of Applied Physics</i> , 1990 , 67, 5761-5761	2.5	1

- 3 A deep insight into avalanche transceivers for optimizing rescue. *Cold Regions Science and Technology*, **2015**, 111, 80-94 3.8 0
- 2 Magnetic hysteresis effects in the ac susceptibility of YBaCuO ceramics. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 3189-3190 1.3
- 1 Low-Bandwidth Telerobotics in Fading Scenarios. *Advances in Intelligent Systems and Computing*, **2018**, 835-848 0.4