

Gianluca De Marzi

List of Publications by Year in descending order

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88
papers

1,682
citations

331670

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89
all docs

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docs citations

89
times ranked

1848
citing authors

#	ARTICLE	IF	CITATIONS
1	A methodological approach for the optimal design of the toroidal field coils of a tokamak device using artificial intelligence. Superconductor Science and Technology, 2022, 35, 014002.	3.5	5
2	The DEMO magnet system – Status and future challenges. Fusion Engineering and Design, 2022, 174, 112971.	1.9	37
3	Conceptual Design Studies of an HTS Insert for the DTT Central Solenoid. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
4	Investigation of transport mechanisms induced by filament-coupling bridges-network in Bi-2212 wires. Superconductor Science and Technology, 2022, 35, 035002.	3.5	5
5	Heat Treatment Optimization on Nb ₃ Sn Strands Based on Electrical and Physical Properties. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	2
6	Evaluation of the Thermal Performance of the SC Feeders for the Magnetic System of the Divertor Tokamak Test Facility. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
7	DC Characterization of a Low-Field Nb ₃ Sn Prototype Conductor for a DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	0
8	DTT: A Challenging Framework for a Sound Superconducting Magnets Design. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
9	Magnetic and Electromechanical Characterization of a High- <i>J_C</i> RRP Wire for the HL-LHC MQXF Cable. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
10	Experimental and numerical studies on current distribution in stacks of HTS tapes for cable-in-conduit-conductors. Superconductor Science and Technology, 2021, 34, 035016.	3.5	14
11	On the mechanisms governing the critical current reduction in Nb ₃ Sn Rutherford cables under transverse stress. Scientific Reports, 2021, 11, 7369.	3.3	8
12	Transport current and magnetization of Bi-2212 wires above liquid Helium temperature for cryogen-free applications. Scientific Reports, 2021, 11, 11660.	3.3	6
13	Design Studies, Magnetic Calculations and Structural Assessment For the DTT Central Solenoid. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
14	Design and Characterization of the Interlayer Joint Between Low-Field Nb ₃ Sn Conductors of a Layer Wound DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-7.	1.7	3
15	Electrothermal design of DC busbars for fusion facilities. Fusion Engineering and Design, 2021, 170, 112662.	1.9	9
16	Self-Doping Effect in FeSe Superconductor by Pressure-Induced Charge Transfer. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1263-1269.	1.8	1
17	Effect of annealing on structure and superconducting properties in Fe(Se,Te). Journal of Physics: Conference Series, 2020, 1559, 012053.	0.4	0
18	Self-Doping Effect in FeSe Superconductor by Pressure-Induced Charge Transfer. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1933-1939.	1.8	0

#	ARTICLE	IF	CITATIONS
19	Fe(Se,Te) system crystallized in molten chlorides flux: The obtained materials and their characterization. Journal of Crystal Growth, 2019, 528, 125268.	1.5	3
20	Strain distribution in the Nb ₃ Sn rectangular wind and react conductor of the European DEMO project, determined by inductive measurements. Fusion Engineering and Design, 2019, 146, 1539-1542.	1.9	3
21	Bending Behavior of HTS Stacked Tapes in a Cable-in-Conduit Conductor With Twisted Al-Slotted Core. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	15
22	Fe(Se,Te) From Melting Routes: Insight on Phase Separation. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	4
23	Stranger APCs: Study of Surface Decoration Material for YBCO Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
24	Reduced strain sensitivity of the critical current of Nb ₃ Sn multifilamentary wires. Journal of Applied Physics, 2019, 126, .	2.5	4
25	Improvements of high-field pinning properties of polycrystalline Fe(Se,Te) material by heat treatments. Journal of Materials Science, 2019, 54, 5092-5100.	3.7	19
26	Phase Separation and Microstructure in Superconducting FeSe _{1-x} Te _x Materials. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	10
27	Solution Refining for MOD-YBCO Optimization: An NMR Study. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	5
28	Magnetic losses of commercial REBCO coated conductors in the low frequency range. Superconductor Science and Technology, 2018, 31, 055011.	3.5	2
29	Pareto-Optimization of HTS CICC for High-Current Applications in Self-Field. Advances in Condensed Matter Physics, 2018, 2018, 1-9.	1.1	1
30	Magnetic Characterization and FEM Computation of MgB ₂ Bulk Spheres. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	0
31	Fabrication and Physical Properties of Polycrystalline Iron-Chalcogenides Superconductors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	11
32	DTT device: Conceptual design of the superconducting magnet system. Fusion Engineering and Design, 2017, 122, 299-312.	1.9	21
33	Magnetization loss for stacks of ReBCO tapes. Superconductor Science and Technology, 2017, 30, 024010.	3.5	15
34	The Effect of Hydrostatic Pressure on the Superconducting and Structural Properties of Nb ₃ Sn: Ab-initio Modeling and SR-XRD Investigation. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
35	Design and optimization of a HTS insert for solenoid magnets. Cryogenics, 2016, 80, 419-426.	1.7	3
36	Superconducting Wires and Cables: Materials and Processing. , 2016, , .		1

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37	Fabrication and Characterization of Sintered Iron-Chalcogenide Superconductors. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	13
38	The role of stoichiometry in superconducting Nb _{1-x} Sn _x : electronic and vibrational properties from ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 32840-32846.	2.8	4
39	Bending Tests of HTS Cable-In-Conduit Conductors for High-Field Magnet Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	35
40	Thermal-Hydraulic Modeling of a Novel HTS CICC for Nuclear Fusion Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	9
41	Modeling Experimental Magnetization Cycles of Thin Superconducting Strips by Finite-Element Simulations. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-7.	1.7	9
42	Performance Test of Superconducting Wires Subject to Heavy Deformations. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	9
43	Electrothermal Analysis of a Twisted Stacked YBCO Cable-in-Conduit Conductor. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	19
44	Electrical Characterization of ENEA High Temperature Superconducting Cable. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	36
45	LTS and HTS high current conductor development for DEMO. Fusion Engineering and Design, 2015, 96-97, 77-82.	1.9	22
46	Cable-in-conduit conductors: lessons from the recent past for future developments with low and high temperature superconductors. Superconductor Science and Technology, 2015, 28, 053001.	3.5	76
47	Characterization of the Critical Current Capabilities of Commercial REBCO Coated Conductors for an HTS Cable-in-Conduit Conductor. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	17
48	Design of an Industrially Feasible Twisted-Stack HTS Cable-in-Conduit Conductor for Fusion Application. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	133
49	Superconductivity-Induced Transparency in Terahertz Metamaterials. ACS Photonics, 2014, 1, 570-575.	6.6	47
50	JT-60SA NbTi Wire Characterization After Thermal Shock Due to Helium Inlet Welding. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.7	1
51	Experimental investigation of the transverse resistivity in Nb ₃ Sn wires through ac susceptibility. Superconductor Science and Technology, 2013, 26, 085001.	3.5	8
52	Strain sensitivity and superconducting properties of Nb ₃ Sn from first principles calculations. Journal of Physics Condensed Matter, 2013, 25, 135702.	1.8	24
53	Reversible stress-induced anomalies in the strain function of Nb ₃ Sn wires. Superconductor Science and Technology, 2012, 25, 025015.	3.5	13
54	Direct observation of Nb ₃ Sn lattice deformation by high-energy x-ray diffraction in internal-tin wires subject to mechanical loads at 4.2 K. Superconductor Science and Technology, 2012, 25, 054006.	3.5	24

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55	Evolution of the Pinning Force of NbTi Filaments as a Function of Isothermal Annealing Time. Physics Procedia, 2012, 36, 1406-1411.	1.2	2
56	Metallurgical Processes in NbTi Filaments as a Function of Isothermal Annealing Time. Physics Procedia, 2012, 36, 1516-1521.	1.2	5
57	The Effect of Doping on the Magnetic Properties in $\{m Ba\}_{1-x}\{m Co\}_x\}_{2}\{hbox\{As\}\}_{2}$ Polycrystalline Samples. IEEE Transactions on Applied Superconductivity, 2011, 21, 2874-2877.	1.7	3
58	Test Results of a NbTi Wire for the ITER Poloidal Field Magnets: A Validation of the 2-Pinning Components Model. IEEE Transactions on Applied Superconductivity, 2011, 21, 3132-3137.	1.7	29
59	Charge transport in nanocrystal wires created by direct electron beam writing. Micro and Nano Letters, 2010, 5, 274.	1.3	2
60	Magnetic characterization of $Ba_{0.9}Fe_{0.1}$ Superconductivity and Its Applications, 2010, 470, S397-S398.	0.9	0
61	Improvement of electromechanical properties of an ITER internal tin Nb ₃ Sn wire. Journal of Applied Physics, 2010, 108, .	2.5	16
62	Pinning Properties of Commercial Nb-Ti Wires Described by a 2-Components Model. IEEE Transactions on Applied Superconductivity, 2010, 20, 1496-1499.	1.7	10
63	The JT-60SA Toroidal Field Conductor Reference Sample: Manufacturing and Test Results. IEEE Transactions on Applied Superconductivity, 2010, 20, 442-446.	1.7	21
64	Magnetic characterization of Nb ₃ Sn strands under applied strain conditions. Superconductor Science and Technology, 2009, 22, 025020.	3.5	5
65	Analysis of Various Dopants on the MgB_2 Superconducting Properties. IEEE Transactions on Applied Superconductivity, 2009, 19, 2802-2806.	1.7	4
66	Magnetic and Transport Characterization of NbTi Strands as a Basis for the Design of Fusion Magnets. IEEE Transactions on Applied Superconductivity, 2009, 19, 2544-2547.	1.7	15
67	Manufacturing of the ITER TF Full Size Prototype Conductor. IEEE Transactions on Applied Superconductivity, 2008, 18, 1105-1108.	1.7	13
68	Influence of cable layout on the performance of ITER-type Nb ₃ Sn conductors. Journal of Physics: Conference Series, 2008, 97, 012027.	0.4	12
69	Variable-temperature characterization of NbTi strands in the low critical-current density range. Journal of Physics: Conference Series, 2008, 97, 012306.	0.4	7
70	Synthesis of Pentacene Nanotubes by Melt-Assisted Template Wetting. Chemistry of Materials, 2007, 19, 338-340.	6.7	35
71	Fabrication of Nanopore Array Electrodes by Focused Ion Beam Milling. Analytical Chemistry, 2007, 79, 3048-3055.	6.5	192
72	Manipulating the Charging Energy of Nanocrystal Arrays. Small, 2005, 1, 613-618.	10.0	32

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73	Charge transport in a CoPt ₃ nanocrystal microwire. Applied Physics Letters, 2004, 85, 5706-5708.	3.3	2
74	Probing intrinsic transport properties of single metal nanowires: Direct-write contact formation using a focused ion beam. Journal of Applied Physics, 2004, 96, 3458-3462.	2.5	100
75	The effect of Cu substitution on the A _{1g} mode of La _{0.7} Sr _{0.3} MnO ₃ manganites. Solid State Communications, 2003, 127, 259-264.	1.9	14
76	Effect of A-site and B-site substitution on the infrared reflectivity spectra of La _{1-y} A _y Mn _{1-x} B _x O ₃ (A=Ba,Sr; B=Cu,Zn,Sc; 0<y<0.3; 0<x<0.1) manganites. Physical Review B, 2003, 68, .	3.2	28
77	Phonon properties of the spinel oxide MgTi ₂ O ₄ with the S=1/2 pyrochlore lattice. Physical Review B, 2003, 68, .	3.2	26
78	Optical conductivity of the nonsuperconducting cuprate La _{8-x} Sr _x Cu ₈ O ₂₀ . Physical Review B, 2002, 65, .	3.2	26
79	Water Confined in Lamellar Structures of AOT Surfactants: An Infrared Investigation. Journal of Physical Chemistry B, 2002, 106, 1032-1035.	2.6	93
80	Doping-induced modifications in the infrared-active phonons of La _{2-x} Sr _x CuO ₄ . Physica C: Superconductivity and Its Applications, 2001, 350, 55-61.	1.2	5
81	ANOMALOUS INFRARED PROPERTIES OF THE OXYGEN DEFICIENT CUPRATE La _{8-x} Sr _x Cu ₈ O ₂₀ . International Journal of Modern Physics B, 2000, 14, 3542-3547.	2.0	0
82	Infrared-active phonons of LaMnO ₃ and CaMnO ₃ . Physical Review B, 1999, 60, 11875-11878.	3.2	79
83	Polaron contribution to the infrared reflectivity of the (Ca,Sr,Nd)CuO ₂ infinite layer structure. Physica B: Condensed Matter, 1999, 259-261, 540-541.	2.7	0
84	Optical Properties of La _{1-x} CaxMnO ₃ Manganites. Journal of Superconductivity and Novel Magnetism, 1999, 12, 289-290.	0.5	2
85	Infrared properties of chemical-vapor deposition polycrystalline diamond windows. Applied Optics, 1998, 37, 5731.	2.1	64
86	Infrared Absorption from Charge Density Waves in Magnetic Manganites. Physical Review Letters, 1998, 81, 4504-4507.	7.8	81
87	Refractive indices of SrTiO ₃ in the infrared region. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 125-138.	0.6	19
88	Optical conductivity of CuO ₂ infinite-layer films. Solid State Communications, 1997, 104, 41-46.	1.9	5