Gianluca De Marzi

List of Publications by Year
in descending order

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88	1,682	331670 21	302126 39
papers	citations	h-index	g-index

89	89	89	1848
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fabrication of Nanopore Array Electrodes by Focused Ion Beam Milling. Analytical Chemistry, 2007, 79, 3048-3055.	6.5	192
2	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
3	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
4	Water Confined in Lamellar Structures of AOT Surfactants: An Infrared Investigation. Journal of Physical Chemistry B, 2002, 106, 1032-1035.	2.6	93
5	Infrared Absorption from Charge Density Waves in Magnetic Manganites. Physical Review Letters, 1998, 81, 4504-4507.	7.8	81
6	Infrared-active phonons ofLaMnO3andCaMnO3. Physical Review B, 1999, 60, 11875-11878.	3.2	79
7	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
8	Infrared properties of chemical-vapor deposition polycrystalline diamond windows. Applied Optics, 1998, 37, 5731.	2.1	64
9	Superconductivity-Induced Transparency in Terahertz Metamaterials. ACS Photonics, 2014, 1, 570-575.	6.6	47
10	The DEMO magnet system â€“ Status and future challenges. Fusion Engineering and Design, 2022, 174, 112971.	1.9	37
11	Electrical Characterization of ENEA High Temperature Superconducting Cable. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	36
12	Synthesis of Pentacene Nanotubes by Melt-Assisted Template Wetting. Chemistry of Materials, 2007, 19, 338-340.	6.7	35
13	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
14	Manipulating the Charging Energy of Nanocrystal Arrays. Small, 2005, 1, 613-618.	10.0	32
15	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
16	Effect ofA-site andB-site substitution on the infrared reflectivity spectra ofLa1âˆ’yAyMn1âˆ’xBxO3(A=Ba,Sr;B=Cu,Zn,Sc;0<y<~0.3;0<~x<~0.1)manganites. Physical Review B, 2003, 68, .	3.2	28
17	Optical conductivity of the nonsuperconducting cuprateLa8âˆ’xSrxCu8O20. Physical Review B, 2002, 65, .	3.2	26
18	Phonon properties of the spinel oxideMgTi2O4with theS=1/2pyrochlore lattice. Physical Review B, 2003, 68, .	3.2	26

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19	Direct observation of Nb₃Sn 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
20	Strain sensitivity and superconducting properties of Nb₃Sn from first principles calculations. Journal of Physics Condensed Matter, 2013, 25, 135702.	1.8	24
21	LTS and HTS high current conductor development for DEMO. Fusion Engineering and Design, 2015, 96-97, 77-82.	1.9	22
22	The JT-60SA Toroidal Field Conductor Reference Sample: Manufacturing and Test Results. IEEE Transactions on Applied Superconductivity, 2010, 20, 442-446.	1.7	21
23	DTT device: Conceptual design of the superconducting magnet system. Fusion Engineering and Design, 2017, 122, 299-312.	1.9	21
24	Refractive indices of SrTiO3 in the infrared region. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 125-138.	0.6	19
25	Electrothermal Analysis of a Twisted Stacked YBCO Cable-in-Conduit Conductor. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	19
26	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
27	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
28	Improvement of electromechanical properties of an ITER internal tin Nb3Sn wire. Journal of Applied Physics, 2010, 108, .	2.5	16
29	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
30	Magnetization loss for stacks of ReBCO tapes. Superconductor Science and Technology, 2017, 30, 024010.	3.5	15
31	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
32	The effect of Cu substitution on the A1g mode of La0.7Sr0.3MnO3 manganites. Solid State Communications, 2003, 127, 259-264.	1.9	14
33	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
34	Manufacturing of the ITER TF Full Size Prototype Conductor. IEEE Transactions on Applied Superconductivity, 2008, 18, 1105-1108.	1.7	13
35	Reversible stress-induced anomalies in the strain function of Nb₃Sn wires. Superconductor Science and Technology, 2012, 25, 025015.	3.5	13
36	Fabrication and Characterization of Sintered Iron-Chalcogenide Superconductors. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	13

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37	Influence of cable layout on the performance of ITER-type Nb3Sn conductors. Journal of Physics: Conference Series, 2008, 97, 012027.	0.4	12
38	Fabrication and Physical Properties of Polycrystalline Iron-Chalcogenides Superconductors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	11
39	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
40	Phase Separation and Microstructure in Superconducting FeSe1-xTex Materials. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	10
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	Thermalâ€“Hydraulic Modeling of a Novel HTS CICC for Nuclear Fusion Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	9
44	Electrothermal design of DC busbars for fusion facilities. Fusion Engineering and Design, 2021, 170, 112662.	1.9	9
45	Experimental investigation of the transverse resistivity in Nb₃Sn wires through ac susceptibility. Superconductor Science and Technology, 2013, 26, 085001.	3.5	8
46	On the mechanisms governing the critical current reduction in Nb3Sn Rutherford cables under transverse stress. Scientific Reports, 2021, 11, 7369.	3.3	8
47	Variable-temperature characterization of NbTi strands in the low critical-current density range. Journal of Physics: Conference Series, 2008, 97, 012306.	0.4	7
48	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
49	Transport current and magnetization of Bi-2212 wires above liquid Helium temperature for cryogen-free applications. Scientific Reports, 2021, 11, 11660.	3.3	6
50	Optical conductivity of CuO2 infinite-layer films. Solid State Communications, 1997, 104, 41-46.	1.9	5
51	Doping-induced modifications in the infrared-active phonons of La2â€“xSrxCuO4. Physica C: Superconductivity and Its Applications, 2001, 350, 55-61.	1.2	5
52	Magnetic characterization of Nb₃Sn strands under applied strain conditions. Superconductor Science and Technology, 2009, 22, 025020.	3.5	5
53	Metallurgical Processes in NbTi Filaments as a Function of Isothermal Annealing Time. Physics Procedia, 2012, 36, 1516-1521.	1.2	5
54	Solution Refining for MOD-YBCO Optimization: An NMR Study. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	5

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55	Design Studies, Magnetic Calculations and Structural Assessment For the DTT Central Solenoid. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
56	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
57	Investigation of transport mechanisms induced by filament-coupling bridges-network in Bi-2212 wires. Superconductor Science and Technology, 2022, 35, 035002.	3.5	5
58	Analysis of Various Dopants on the ${m MgB}_{2}$ Superconducting Properties. IEEE Transactions on Applied Superconductivity, 2009, 19, 2802-2806.	1.7	4
59	The role of stoichiometry in superconducting Nb_{1â^'Î²}Sn_{Î²}: electronic and vibrational properties from ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 32840-32846.	2.8	4
60	Fe(Se,Te) From Melting Routes: Insight on Phase Separation. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	4
61	Reduced strain sensitivity of the critical current of Nb3Sn multifilamentary wires. Journal of Applied Physics, 2019, 126, .	2.5	4
62	DTT: A Challenging Framework for a Sound Superconducting Magnets Design. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
63	Magnetic and Electromechanical Characterization of a High-J_C RRP Wire for the HL-LHC MQXF Cable. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
64	The Effect of Doping on the Magnetic Properties in ${m Ba}({{m Fe}_{1-x}{m Co}_{x}})_{2}{hbox {As}}_{2}$ Polycrystalline Samples. IEEE Transactions on Applied Superconductivity, 2011, 21, 2874-2877.	1.7	3
65	Design and optimization of a HTS insert for solenoid magnets. Cryogenics, 2016, 80, 419-426.	1.7	3
66	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
67	Strain distribution in the Nb3Sn 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
68	Stranger APCs: Study of Surface Decoration Material for YBCO Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
69	Design and Characterization of the Interlayer Joint Between Low-Field Nb₃Sn Conductors of a Layer Wound DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-7.	1.7	3
70	Conceptual Design Studies of an HTS Insert for the DTT Central Solenoid. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
71	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
72	Optical Properties of La1â^'xCaxMnO3 Manganites. Journal of Superconductivity and Novel Magnetism, 1999, 12, 289-290.	0.5	2

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73	Charge transport in a CoPt3 nanocrystal microwire. Applied Physics Letters, 2004, 85, 5706-5708.	3.3	2
74	Charge transport in nanocrystal wires created by direct electron beam writing. Micro and Nano Letters, 2010, 5, 274.	1.3	2
75	Evolution of the Pinning Force of NbTi Filaments as a Function of Isothermal Annealing Time. Physics Procedia, 2012, 36, 1406-1411.	1.2	2
76	Magnetic losses of commercialREBCO coated conductors in the low frequency range. Superconductor Science and Technology, 2018, 31, 055011.	3.5	2
77	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
78	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
79	Superconducting Wires and Cables: Materials and Processing. , 2016, , .		1
80	Pareto-Optimization of HTS CICC for High-Current Applications in Self-Field. Advances in Condensed Matter Physics, 2018, 2018, 1-9.	1.1	1
81	Self-Doping Effect in FeSe Superconductor by Pressure-Induced Charge Transfer. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1263-1269.	1.8	1
82	Polaron contribution to the infrared reflectivity of the (Ca,Sr,Nd)CuO2 infinite layer structure. Physica B: Condensed Matter, 1999, 259-261, 540-541.	2.7	0
83	ANOMALOUS INFRARED PROPERTIES OF THE OXYGEN DEFICIENT CUPRATE La8-xSrxCu8O20. International Journal of Modern Physics B, 2000, 14, 3542-3547.	2.0	0
84	Magnetic characterization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:mrow><mml:mtext>Ba</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1.9</mml:mn></mml:m Superconductivity and Its Applications, 2010, 470, S397-S398.	1.2	0
85	Magnetic Characterization and FEM Computation of MgB₂ Bulk Spheres. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	0
86	Effect of annealing on structure and superconducting properties in Fe(Se,Te). Journal of Physics: Conference Series, 2020, 1559, 012053.	0.4	0
87	Self-Doping Effect in FeSe Superconductor by Pressure-Induced Charge Transfer. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1933-1939.	1.8	0
88	DC Characterization of a Low-Field Nb₃Sn Prototype Conductor for a DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	0