

Mauro Tortello

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

1,859
citations

279798

23
h-index

265206

42
g-index

71
all docs

71
docs citations

71
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
2	Single crystals of $\text{LnFeAsO}_{1-x}\text{Fx}$ (Ln=La, Pr, Nd, Sm, Gd) and $\text{Ba}_{1-x}\text{RbxFe}_2\text{As}_2$: Growth, structure and superconducting properties. Physica C: Superconductivity and Its Applications, 2009, 469, 370-380.	1.2	120
3	Directional point-contact Andreev-reflection spectroscopy of Fe-based superconductors: Fermi surface topology, gap symmetry, and electron-boson interaction. Reports on Progress in Physics, 2011, 74, 124509.	20.1	85
4	Multigap Superconductivity and Strong Electron-Boson Coupling in Fe-Based Superconductors: A Point-Contact Andreev-Reflection Study of $\text{Ba}_{1-x}\text{RbxFe}_2\text{As}_2$. Physica C: Superconductivity and Its Applications, 2009, 469, 237002.	7.8	68
5	Nafion and carbon nanotube nanocomposites for mixed proton and electron conduction. Journal of Membrane Science, 2010, 363, 265-270.	8.2	64
6	Cytocompatible and Anti-bacterial Adhesion Nanotextured Titanium Oxide Layer on Titanium Surfaces for Dental and Orthopedic Implants. Frontiers in Bioengineering and Biotechnology, 2019, 7, 103.	4.1	64
7	Large Conductance Modulation of Gold Thin Films by Huge Charge Injection via Electrochemical Gating. Physical Review Letters, 2012, 108, 066807.	7.8	63
8	Evidence for two-gap nodeless superconductivity in $\text{SmFeAsO}_{1-x}\text{Fx}$ probed by point-contact Andreev-reflection spectroscopy. Physical Review B, 2009, 80, .	3.2	61
9	Three-band S_{\pm} Eliashberg theory and the superconducting gaps of iron pnictides. Physical Review B, 2009, 80, .	3.2	56
10	Coexistence of two order parameters and a pseudogaplike feature in the iron-based superconductor $\text{LaFeAsO}_{1-x}\text{Fx}$. Physical Review B, 2009, 79, .	3.2	55
11	Point-contact Andreev-reflection spectroscopy in $\text{ReFeAsO}_{1-x}\text{Fx}$ (Re = La, Sm): Possible evidence for two nodeless gaps. Physica C: Superconductivity and Its Applications, 2009, 469, 512-520.	1.2	53
12	Strong-coupling d-wave superconductivity in PuCoGa_5 probed by point-contact spectroscopy. Nature Communications, 2012, 3, 786.	12.8	49
13	Evidence for Gap Anisotropy in CaC_6 from Directional Point-Contact Spectroscopy. Physical Review Letters, 2008, 100, 207004.	7.8	46
14	Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. Carbon, 2016, 109, 390-401.	10.3	46
15	Effect of Magnetic Impurities in a Two-Band Superconductor: A Point-Contact Study of Mn-Substituted MgB_2 Single Crystals. Physical Review Letters, 2006, 97, 037001.	7.8	35
16	New Transparent Laser-Drilled Fluorine-doped Tin Oxide covered Quartz Electrodes for Photo-Electrochemical Water Splitting. Electrochimica Acta, 2014, 131, 184-194.	5.2	35
17	Point-contact spectroscopy in neutron-irradiated MgB_2 . Physical Review B, 2006, 74, .	3.2	30
18	Temperature Dependence of Electric Transport in Few-layer Graphene under Large Charge Doping Induced by Electrochemical Gating. Scientific Reports, 2015, 5, 9554.	3.3	27

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37	Point-contact spectroscopy in Co-doped CaFe ₂ As ₂ : nodal superconductivity and topological Fermi surface transition. Superconductor Science and Technology, 2012, 25, 065007.	3.5	13
38	Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. Electrochimica Acta, 2015, 182, 500-506.	5.2	13
39	Facile and Low Environmental Impact Approach to Prepare Thermally Conductive Nanocomposites Based on Polylactide and Graphite Nanoplatelets. ACS Sustainable Chemistry and Engineering, 2018, 6, 14340-14347.	6.7	13
40	Effects of isoelectronic Ru substitution at the Fe site on the energy gaps of optimally F-doped SmFeAsO. Superconductor Science and Technology, 2012, 25, 084012.	3.5	12
41	Thermal and Electronic Properties of Macroscopic Multi-Walled Carbon Nanotubes Blocks. Journal of Nanoscience and Nanotechnology, 2010, 10, 3828-3833.	0.9	10
42	Effect of Li-Al co-doping on the energy gaps of MgB ₂ . Superconductor Science and Technology, 2009, 22, 025012.	3.5	9
43	Point-Contact Andreev-Reflection Spectroscopy in Fe-Based Superconductors: Multigap Superconductivity and Strong Electron-Boson Interaction. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1297-1301.	1.8	9
44	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. ACS Applied Nano Materials, 2019, 2, 2621-2633.	5.0	9
45	Bispyrene Functionalization Drives Self-Assembly of Graphite Nanoplates into Highly Efficient Heat Spreader Foils. ACS Applied Materials & Interfaces, 2021, 13, 15509-15517.	8.0	8
46	Directed Self-Assembly of Polystyrene Nanospheres by Direct Laser-Writing Lithography. Nanomaterials, 2020, 10, 280.	4.1	8
47	Two-gap superconductivity in the Fe-1111 superconductor LaFeAsO _{1-x} F _x : A point-contact Andreev-reflection study. Open Physics, 2009, 7, .	1.7	7
48	Possible Multigap Superconductivity in SmFeAsO _{0.8} F _{0.2} : A Point-contact Andreev-reflection Spectroscopy Study. Journal of Superconductivity and Novel Magnetism, 2009, 22, 543-547.	1.8	6
49	Design and construction of a point-contact spectroscopy rig with lateral scanning capability. Review of Scientific Instruments, 2016, 87, 063903.	1.3	6
50	Effect of ion irradiation on surface morphology and superconductivity of BaFe ₂ (As _{1-x} P _x) ₂ films. Applied Surface Science, 2017, 395, 9-15.	6.1	6
51	Recent achievements in MgB ₂ physics and applications: A large-area SQUID magnetometer and point-contact spectroscopy measurements. Physica C: Superconductivity and Its Applications, 2006, 435, 59-65.	1.2	5
52	Effect of Heavy Al Doping on MgB ₂ : A Point-Contact Study of Crystals and Polycrystals. Journal of Superconductivity and Novel Magnetism, 2007, 20, 555-558.	1.8	5
53	Investigation of Li-doped MgB ₂ . Superconductor Science and Technology, 2009, 22, 095014.	3.5	5
54	Point contact spectroscopy in Fe-based superconductors: Recent advancements and future challenges. Current Opinion in Solid State and Materials Science, 2013, 17, 72-80.	11.5	5

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55	Directional Point-Contact Josephson Junctions on Ba _{0.4} K _{0.6} (FeAs) ₂ Single Crystals. Journal of Superconductivity and Novel Magnetism, 2016, 29, 679-683.	1.8	5
56	Decoupling of critical temperature and superconducting gaps in irradiated films of a Fe-based superconductor. Superconductor Science and Technology, 2018, 31, 034005.	3.5	5
57	Analysis of Elastic Nonlinearity Using Continuous Waves: Validation and Applications. Applied Sciences (Switzerland), 2019, 9, 5332.	2.5	5
58	Evidence for One-Gap Superconductivity in Mg(B _{1-x} C _x) ₂ Single Crystals at x=0.132 by Point-Contact Spectroscopy. Journal of Superconductivity and Novel Magnetism, 2005, 18, 681-685.	0.5	4
59	Point-Contact Andreev-Reflection Spectroscopy in the Fe-based Superconductor LaFeAsO _{1-x} F _x . Journal of Superconductivity and Novel Magnetism, 2009, 22, 553-557.	1.8	4
60	Normal and superconducting properties of LiFeAs explained in the framework of four-band Eliashberg theory. Physica C: Superconductivity and Its Applications, 2013, 492, 21-24.	1.2	4
61	The Order-Parameter Symmetry and Fermi Surface Topology of 122 Fe-Based Superconductors: A Point-Contact Andreev-Reflection Study. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1331-1337.	1.8	4
62	Material Grain Size Determines Relaxation-Time Distributions in Slow-Dynamics Experiments. Physical Review Applied, 2022, 17, .	3.8	4
63	Point-Contact Spectroscopy in Mn-Doped MgB ₂ Single Crystals: Effects of Magnetic Impurities in a Two-Band Superconductor. Journal of Superconductivity and Novel Magnetism, 2007, 20, 523-526.	1.8	2
64	Probing the current-phase relation in Josephson point-contact junctions between $\text{Pb}_{0.6}\text{In}_{0.4}$ and $\text{Ba}_{0.6}\text{K}_{0.4}(\text{FeAs})_2$ superconductors. Scientific Reports, 2021, 11, 23986.	3.3	2
65	Point-contact study of the role of non-magnetic impurities and disorder in the superconductivity of MgB ₂ . Physica C: Superconductivity and Its Applications, 2007, 460-462, 975-976.	1.2	1
66	Superconductivity on the Verge of a Pressure-Induced Lifshitz Transition in CaFe ₂ As ₂ : an Interpretation Within the Eliashberg Theory. Journal of Superconductivity and Novel Magnetism, 2018, 31, 771-776.	1.8	1
67	A comparison of scaling subtraction and pulse compression methods for the analysis of elastic nonlinearity. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1
68	Role of slow dynamics in fast dynamics ultrasonic measurements. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105452.	3.3	1
69	Point-Contact Spectroscopy in Doped and Irradiated MgB ₂ . Advances in Science and Technology, 2006, 47, 75.	0.2	0
70	Nonlinear acoustics measurements of intact and damaged samples: fast and slow dynamics. , 2019, , .		0
71	Damping and velocity during conditioning and relaxation in diverse media: an experimental study. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0