Mauro Tortello

List of Publications by Year
in descending order

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	Material Grain Size Determines Relaxation-Time Distributions in Slow-Dynamics Experiments. Physical Review Applied, 2022, 17, .	3.8	4
2	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
3	Reaching silicon-based NEMS performances with 3D printed nanomechanical resonators. Nature Communications, 2021, 12, 6080.	12.8	23
4	Probing the current-phase relation in Josephson point-contact junctions between $$hbox {Pb}_{0.6}$$In$$_{0.4}$$ and $$hbox {Ba}_{0.6}$$K$$_{0.4}$$(FeAs)$$_2$$ superconductors. Scientific Reports, 2021, 11, 23986.	3.3	2
5	Role of slow dynamics in fast dynamics ultrasonic measurements. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105452.	3.3	1
6	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
7	Directed Self-Assembly of Polystyrene Nanospheres by Direct Laser-Writing Lithography. Nanomaterials, 2020, 10, 280.	4.1	8
8	Experimental Evidence of Correlations Between Conditioning and Relaxation in Hysteretic Elastic Media. Physical Review Applied, 2019, 12, .	3.8	16
9	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
10	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. ACS Applied Nano Materials, 2019, 2, 2621-2633.	5.0	9
11	A comparison of scaling subtraction and pulse compression methods for the analysis of elastic nonlinearity. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1
12	Analysis of Elastic Nonlinearity Using Continuous Waves: Validation and Applications. Applied Sciences (Switzerland), 2019, 9, 5332.	2.5	5
13	Nonlinear acoustics measurements of intact and damaged samples: fast and slow dynamics. , 2019, , .		0
14	Surface structuring by Electron Beam for improved soft tissues adhesion and reduced bacterial contamination on Ti-grade 2. Journal of Materials Processing Technology, 2019, 266, 518-529.	6.3	26
15	Damping and velocity during conditioning and relaxation in diverse media: an experimental study. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
16	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
17	Superconductivity on the Verge of a Pressure-Induced Lifshitz Transition in CaFe2As2: an Interpretation Within the Eliashberg Theory. Journal of Superconductivity and Novel Magnetism, 2018, 31, 771-776.	1.8	1
18	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

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19	Possible charge-density-wave signatures in the anomalous resistivity of Li-intercalated multilayer MoS2. Applied Surface Science, 2018, 461, 269-275.	6.1	20
20	Carrier mobility and scattering lifetime in electric double-layer gated few-layer graphene. Applied Surface Science, 2017, 395, 37-41.	6.1	16
21	Weak localization in electric-double-layer gated few-layer graphene. 2D Materials, 2017, 4, 035006.	4.4	25
22	Effect of ion irradiation on surface morphology and superconductivity of BaFe 2 (As 1â^'x P x) 2 films. Applied Surface Science, 2017, 395, 9-15.	6.1	6
23	Thermally and Electrically Conductive Nanopapers from Reduced Graphene Oxide: Effect of Nanoflakes Thermal Annealing on the Film Structure and Properties. Nanomaterials, 2017, 7, 428.	4.1	23
24	Design and construction of a point-contact spectroscopy rig with lateral scanning capability. Review of Scientific Instruments, 2016, 87, 063903.	1.3	6
25	Optimization and characterization of a homogeneous carboxylic surface functionalization for silicon-based biosensing. Colloids and Surfaces B: Biointerfaces, 2016, 143, 252-259.	5.0	20
26	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
27	Fermi-Surface Topological Phase Transition and Horizontal Order-Parameter Nodes in CaFe2As2 Under Pressure. Scientific Reports, 2016, 6, 26394.	3.3	16
28	Directional Point-Contact Josephson Junctions on Ba0.4K0.6(FeAs)2 Single Crystals. Journal of Superconductivity and Novel Magnetism, 2016, 29, 679-683.	1.8	5
29	Josephson current in Fe-based superconducting junctions: Theory and experiment. Physical Review B, 2015, 91, .	3.2	26
30	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
31	Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. Electrochimica Acta, 2015, 182, 500-506.	5.2	13
32	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
33	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
34	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
35	Point-contact Andreev-reflection spectroscopy in anisotropic superconductors: The importance of directionality (Review Article). Low Temperature Physics, 2013, 39, 199-210.	0.6	18
36	Huge field-effect surface charge injection and conductance modulation in metallic thin films by electrochemical gating. Applied Surface Science, 2013, 269, 17-22.	6.1	18

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37	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
38	Point-contact spectroscopy in Co-doped CaFe2As2: nodal superconductivity and topological Fermi surface transition. Superconductor Science and Technology, 2012, 25, 065007.	3.5	13
39	Strong-coupling d-wave superconductivity in PuCoGa5 probed by point-contact spectroscopy. Nature Communications, 2012, 3, 786.	12.8	49
40	Large Conductance Modulation of Gold Thin Films by Huge Charge Injection via Electrochemical Gating. Physical Review Letters, 2012, 108, 066807.	7.8	63
41	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
42	Nafion membranes with vertically-aligned CNTs for mixed proton and electron conduction. Journal of Membrane Science, 2012, 415-416, 346-352.	8.2	23
43	Point-Contact Andreev-Reflection Spectroscopy in Fe-Based Superconductors: Multigap Superconductivity and Strong Electronâ€“Boson Interaction. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1297-1301.	1.8	9
44	Directional point-contact Andreev-reflection spectroscopy of Fe-based superconductors: Fermi surface topology, gap symmetry, and electronâ€“boson interaction. Reports on Progress in Physics, 2011, 74, 124509.	20.1	85
45	Predictions of Multiband sÂ± Strong-Coupling Eliashberg Theory Compared to Experimental Data in Iron Pnictides. Journal of Superconductivity and Novel Magnetism, 2011, 24, 247-253.	1.8	18
46	Interplay of composition, structure, magnetism, and superconductivity in SmFeAs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>P<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	22
47	Thermal and Electronic Properties of Macroscopic Multi-Walled Carbon Nanotubes Blocks. Journal of Nanoscience and Nanotechnology, 2010, 10, 3828-3833.	0.9	10
48	Nafion and carbon nanotube nanocomposites for mixed proton and electron conduction. Journal of Membrane Science, 2010, 363, 265-270.	8.2	64
49	Multigap Superconductivity and Strong Electron Boson Coupling in Fe-Based Superconductors: A Point-Contact Andreev-Reflection Study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ba</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:m 237002	7.8	68
50	Effect of Liâ€“Al co-doping on the energy gaps of MgB2. Superconductor Science and Technology, 2009, 22, 025012.	3.5	9
51	Point-contact Andreev-reflection spectroscopy in ReFeAsO1â^’xFx (Re = La, Sm): Possible evidence for two nodeless gaps. Physica C: Superconductivity and Its Applications, 2009, 469, 512-520.	1.2	53
52	Single crystals of LnFeAsO1â^’xFx (Ln=La, Pr, Nd, Sm, Gd) and Ba1â^’xRbxFe2As2: Growth, structure and superconducting properties. Physica C: Superconductivity and Its Applications, 2009, 469, 370-380.	1.2	120
53	Point-Contact Andreev-Reflection Spectroscopy in the Fe-based Superconductor LaFeAsO1â^’x F x. Journal of Superconductivity and Novel Magnetism, 2009, 22, 553-557.	1.8	4
54	Possible Multigap Superconductivity in SmFeAsO0.8F0.2: AÂPoint-contact Andreev-reflection Spectroscopy Study. Journal of Superconductivity and Novel Magnetism, 2009, 22, 543-547.	1.8	6

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55	Two-gap superconductivity in the Fe-1111 superconductor LaFeAsO1Ã¢Ë†â€™x Fx: A point-contact Andreev-reflection study. Open Physics, 2009, 7, .	1.7	7
56	Three-band<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:mo>Â±</mml:mo></mml:mrow></mml:math>Eliashberg theory and the superconducting gaps of iron pnictides. Physical Review B, 2009, 80, .	3.2	56
57	Investigation of Li-doped MgB₂. Superconductor Science and Technology, 2009, 22, 095014.	3.5	5
58	Coexistence of two order parameters and a pseudogaplike feature in the iron-based superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</m Physical Review B, 2009, 79, .	3.2	55
59	Evidence for two-gap nodeless superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SmFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</m point-contact Andreev-reflection spectroscopy. Physical Review B, 2009, 80, .	3.2	61
60	Point-contact Andreev-reflection spectroscopy in segregation-free Mg_{1â^'x}Al_xB₂single crystals up tox= 0.32. Journal of Physics Condensed Matter, 2008, 20, 085225.	1.8	21
61	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MgB</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml: crystals substituted with Li and with Li-C: Structural and superconducting properties. Physical Review B, 2008, 77, .	3.2	26
62	Evidence for Gap Anisotropy in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaC</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>from Directional Point-Contact Spectroscopy. Physical Review Letters, 2008, 100, 207004.	7.8	46
63	Point-contact Andreev-reflection spectroscopy in MgB2: The role of substitutions. Physica C: Superconductivity and Its Applications, 2007, 456, 134-143.	1.2	20
64	Point-contact study of the role of non-magnetic impurities and disorder in the superconductivity of MgB2. Physica C: Superconductivity and Its Applications, 2007, 460-462, 975-976.	1.2	1
65	Effect of Heavy Al Doping on MgB2: A Point-Contact Study ofÂCrystals and Polycrystals. Journal of Superconductivity and Novel Magnetism, 2007, 20, 555-558.	1.8	5
66	Point-Contact Spectroscopy in Mn-Doped MgB2 Single Crystals: Effects of Magnetic Impurities in a Two-Band Superconductor. Journal of Superconductivity and Novel Magnetism, 2007, 20, 523-526.	1.8	2
67	Recent achievements in MgB2 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
68	Point-Contact Spectroscopy in Doped and Irradiated MgB₂. Advances in Science and Technology, 2006, 47, 75.	0.2	0
69	Effect of Magnetic Impurities in a Two-Band Superconductor: A Point-Contact Study of Mn-SubstitutedMgB2Single Crystals. Physical Review Letters, 2006, 97, 037001.	7.8	35
70	Point-contact spectroscopy in neutron-irradiatedMgB211. Physical Review B, 2006, 74, .	3.2	30
71	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