

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. <i>2D Materials</i> , 2020, 7, 022001. | 4.4 | 333 |
| 2 | Single crystals of $\text{LnFeAsO}_1\tilde{x}\text{Fx}$ ($\text{Ln}=\text{La, Pr, Nd, Sm, Gd}$) and $\text{Ba}_1\tilde{x}\text{RbxFe}_2\text{As}_2$: Growth, structure and superconducting properties. <i>Physica C: Superconductivity and Its Applications</i> , 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. <i>Reports on Progress in Physics</i> , 2011, 74, 124509. Multigap Superconductivity and Strong Electron-Boson Coupling in Fe-Based Superconductors: A Point-Contact Andreev-Reflection Study of $\text{Ba}_{1-x}\text{Fe}_2\text{As}_1\text{O}_{6.8}$ | 20.1 | 85 |
| 4 | 237002. Nafion and carbon nanotube nanocomposites for mixed proton and electron conduction. <i>Journal of Membrane Science</i> , 2010, 363, 265-270. | 8.2 | 64 |
| 5 | Cytocompatible and Anti-bacterial Adhesion Nanotextured Titanium Oxide Layer on Titanium Surfaces for Dental and Orthopedic Implants. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 103. | 4.1 | 64 |
| 6 | Large Conductance Modulation of Gold Thin Films by Huge Charge Injection via Electrochemical Gating. <i>Physical Review Letters</i> , 2012, 108, 066807. | 7.8 | 63 |
| 7 | Evidence for two-gap nodeless superconductivity in $\text{SmFeAsO}_{1-x}\text{Fx}$. <i>Physical Review B</i> , 2009, 80, . | 3.2 | 61 |
| 8 | Three-band theory and the superconducting gaps of iron pnictides. <i>Physical Review B</i> , 2009, 80, . | 56 | 55 |
| 9 | Coexistence of two order parameters and a pseudogaplike feature in the iron-based superconductor $\text{LaFeAsO}_{1-x}\text{Fx}$. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 55 |
| 10 | Point-contact Andreev-reflection spectroscopy in $\text{ReFeAsO}_1\tilde{x}\text{Fx}$ ($\text{Re} = \text{La, Sm}$): Possible evidence for two nodeless gaps. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 512-520. | 1.2 | 53 |
| 11 | Strong-coupling d-wave superconductivity in PuCoGa_5 probed by point-contact spectroscopy. <i>Nature Communications</i> , 2012, 3, 786. | 12.8 | 49 |
| 12 | Evidence for Gap Anisotropy in $\text{CaC}_{6-x}\text{Mn}_x$. <i>Physical Review Letters</i> , 2008, 100, 207004. | 7.8 | 46 |
| 13 | Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. <i>Carbon</i> , 2016, 109, 390-401. | 10.3 | 46 |
| 14 | Effect of Magnetic Impurities in a Two-Band Superconductor: A Point-Contact Study of $\text{Mn-Substituted MgB}_2$ Single Crystals. <i>Physical Review Letters</i> , 2006, 97, 037001. | 7.8 | 35 |
| 15 | New Transparent Laser-Drilled Fluorine-doped Tin Oxide covered Quartz Electrodes for Photo-Electrochemical Water Splitting. <i>Electrochimica Acta</i> , 2014, 131, 184-194. | 5.2 | 35 |
| 16 | Point-contact spectroscopy in neutron-irradiated MgB_{211} . <i>Physical Review B</i> , 2006, 74, . | 3.2 | 30 |
| 17 | Temperature Dependence of Electric Transport in Few-layer Graphene under Large Charge Doping Induced by Electrochemical Gating. <i>Scientific Reports</i> , 2015, 5, 9554. | 3.3 | 27 |

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|----|---|------|-----------|
| 19 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtex>MgB</mml:mtex></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> crystals substituted with Li and with Li-C: Structural and superconducting properties. Physical Review B, 2008, 77, . | 3.2 | 26 |
| 20 | Josephson current in Fe-based superconducting junctions: Theory and experiment. Physical Review B, 2015, 91, . | 3.2 | 26 |
| 21 | 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 |
| 22 | Weak localization in electric-double-layer gated few-layer graphene. 2D Materials, 2017, 4, 035006. | 4.4 | 25 |
| 23 | Nafion membranes with vertically-aligned CNTs for mixed proton and electron conduction. Journal of Membrane Science, 2012, 415-416, 346-352. | 8.2 | 23 |
| 24 | 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 |
| 25 | Reaching silicon-based NEMS performances with 3D printed nanomechanical resonators. Nature Communications, 2021, 12, 6080. 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:mrow></mml:math>P<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow>/><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow>Point-contact Andreev-reflection spectroscopy in segregation-free Mg_{1-x}Al_xB₂single crystals up to$x = 0.32$. Journal of Physics Condensed Matter, 2008, 20, 085225. | 12.8 | 23 |
| 26 | Possible charge-density-wave signatures in the anomalous resistivity of Li-intercalated multilayer MoS ₂ . Applied Surface Science, 2018, 461, 269-275. | 6.1 | 20 |
| 27 | 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 |
| 28 | Point-contact Andreev-reflection spectroscopy in MgB ₂ : The role of substitutions. Physica C: Superconductivity and Its Applications, 2007, 456, 134-143. | 1.2 | 20 |
| 29 | Predictions of Multiband s± Strong-Coupling Eliashberg Theory Compared to Experimental Data in Iron Pnictides. Journal of Superconductivity and Novel Magnetism, 2011, 24, 247-253. | 1.8 | 18 |
| 30 | Point-contact Andreev-reflection spectroscopy in anisotropic superconductors: The importance of directionality (Review Article). Low Temperature Physics, 2013, 39, 199-210. | 0.6 | 18 |
| 31 | 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 |
| 32 | Fermi-Surface Topological Phase Transition and Horizontal Order-Parameter Nodes in CaFe ₂ As ₂ Under Pressure. Scientific Reports, 2016, 6, 26394. | 3.3 | 16 |
| 33 | Carrier mobility and scattering lifetime in electric double-layer gated few-layer graphene. Applied Surface Science, 2017, 395, 37-41. | 6.1 | 16 |
| 34 | Experimental Evidence of Correlations Between Conditioning and Relaxation in Hysteretic Elastic Media. Physical Review Applied, 2019, 12, . | 3.8 | 16 |

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|----|---|------|-----------|
| 37 | Point-contact spectroscopy in Co-doped CaFe ₂ As ₂ : nodal superconductivity and topological Fermi surface transition. <i>Superconductor Science and Technology</i> , 2012, 25, 065007. | 3.5 | 13 |
| 38 | Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. <i>Electrochimica Acta</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Superconductor Science and Technology</i> , 2012, 25, 084012. | 3.5 | 12 |
| 41 | Thermal and Electronic Properties of Macroscopic Multi-Walled Carbon Nanotubes Blocks. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3828-3833. | 0.9 | 10 |
| 42 | Effect of Li-Al co-doping on the energy gaps of MgB ₂ . <i>Superconductor Science and Technology</i> , 2009, 22, 025012. | 3.5 | 9 |
| 43 | Point-Contact Andreev-Reflection Spectroscopy in Fe-Based Superconductors: Multigap Superconductivity and Strong Electron-Boson Interaction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 1297-1301. | 1.8 | 9 |
| 44 | Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. <i>ACS Applied Nano Materials</i> , 2019, 2, 2621-2633. | 5.0 | 9 |
| 45 | Bispyrene Functionalization Drives Self-Assembly of Graphite Nanoplates into Highly Efficient Heat Spreader Foils. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15509-15517. | 8.0 | 8 |
| 46 | Directed Self-Assembly of Polystyrene Nanospheres by Direct Laser-Writing Lithography. <i>Nanomaterials</i> , 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. <i>Open Physics</i> , 2009, 7, . | 1.7 | 7 |
| 48 | Possible Multigap Superconductivity in SmFeAsO _{0.8} F _{0.2} : A Point-contact Andreev-reflection Spectroscopy Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009, 22, 543-547. | 1.8 | 6 |
| 49 | Design and construction of a point-contact spectroscopy rig with lateral scanning capability. <i>Review of Scientific Instruments</i> , 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. <i>Applied Surface Science</i> , 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. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 435, 59-65. | 1.2 | 5 |
| 52 | Effect of Heavy Al Doping on MgB ₂ : A Point-Contact Study of Crystals and Polycrystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 20, 555-558. | 1.8 | 5 |
| 53 | Investigation of Li-doped MgB ₂ . <i>Superconductor Science and Technology</i> , 2009, 22, 095014. | 3.5 | 5 |
| 54 | Point contact spectroscopy in Fe-based superconductors: Recent advancements and future challenges. <i>Current Opinion in Solid State and Materials Science</i> , 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. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 679-683. | 1.8 | 5 |
| 56 | Decoupling of critical temperature and superconducting gaps in irradiated films of a Fe-based superconductor. <i>Superconductor Science and Technology</i> , 2018, 31, 034005. | 3.5 | 5 |
| 57 | Analysis of Elastic Nonlinearity Using Continuous Waves: Validation and Applications. <i>Applied Sciences (Switzerland)</i> , 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. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005, 18, 681-685. | 0.5 | 4 |
| 59 | Point-Contact Andreev-Reflection Spectroscopy in the Fe-based Superconductor LaFeAsO _{1-x} F _x . <i>Journal of Superconductivity and Novel Magnetism</i> , 2009, 22, 553-557. | 1.8 | 4 |
| 60 | Normal and superconducting properties of LiFeAs explained in the framework of four-band Eliashberg theory. <i>Physica C: Superconductivity and Its Applications</i> , 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. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1331-1337. | 1.8 | 4 |
| 62 | Material Grain Size Determines Relaxation-Time Distributions in Slow-Dynamics Experiments. <i>Physical Review Applied</i> , 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. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 20, 523-526. | 1.8 | 2 |
| 64 | Probing the current-phase relation in Josephson point-contact junctions between Pb-In-0.4 and Ba-K-0.4(FeAs)2 superconductors. <i>Scientific Reports</i> , 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 . <i>Physica C: Superconductivity and Its Applications</i> , 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. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 771-776. | 1.8 | 1 |
| 67 | A comparison of scaling subtraction and pulse compression methods for the analysis of elastic nonlinearity. <i>Proceedings of Meetings on Acoustics</i> , 2019, , . | 0.3 | 1 |
| 68 | Role of slow dynamics in fast dynamics ultrasonic measurements. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 91, 105452. | 3.3 | 1 |
| 69 | Point-Contact Spectroscopy in Doped and Irradiated MgB ₂ . <i>Advances in Science and Technology</i> , 2006, 47, 75. | 0.2 | 0 |
| 70 | Nonlinear acoustics measurements of intact and damaged samples: fast and slow dynamics. , 2019, , . | 0 | 0 |
| 71 | Damping and velocity during conditioning and relaxation in diverse media: an experimental study. <i>Proceedings of Meetings on Acoustics</i> , 2019, , . | 0.3 | 0 |