

Dario Daghero

List of Publications by Year in descending order

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96
papers

2,546
citations

212478

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223390

49
g-index

96
all docs

96
docs citations

96
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
2	Nodal multigap superconductivity in the anisotropic iron-based compound RbCa ₂ Fe ₄ As ₄ F ₂ . Npj Quantum Materials, 2022, 7, .	1.8	9
3	Anomalous Metallic Phase in Molybdenum Disulphide Induced via Gate-Driven Organic Ion Intercalation. Nanomaterials, 2022, 12, 1842.	1.9	2
4	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. Nature Electronics, 2021, 4, 893-905.	13.1	52
5	Superconductivity of underdoped PrFeAs(O,F) investigated via point-contact spectroscopy and nuclear magnetic resonance. Physical Review B, 2020, 102, .	1.1	5
6	Strong band-filling-dependence of the scattering lifetime in gated MoS ₂ nanolayers induced by the opening of intervalley scattering channels. Journal of Applied Physics, 2020, 128, 063907.	1.1	5
7	Electric field exfoliation and high-TC superconductivity in field-effect hole-doped hydrogenated diamond (111). Applied Surface Science, 2019, 496, 143709.	3.1	8
8	Two-dimensional hole transport in ion-gated diamond surfaces: A brief review (Review article). Low Temperature Physics, 2019, 45, 1143-1155.	0.2	11
9	Ambipolar suppression of superconductivity by ionic gating in optimally doped BaFe_2As_2 ultrathin films. Physical Review Materials, 2019, 3, .	0.9	11
10	Decoupling of critical temperature and superconducting gaps in irradiated films of a Fe-based superconductor. Superconductor Science and Technology, 2018, 31, 034005.	1.8	5
11	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.	0.8	1
12	Multi-Valley Superconductivity in Ion-Gated MoS ₂ Layers. Nano Letters, 2018, 18, 4821-4830.	4.5	58
13	Anomalous screening of an electrostatic field at the surface of niobium nitride. Applied Surface Science, 2018, 461, 17-22.	3.1	12
14	Crystal growth, characterization, and point-contact Andreev-reflection spectroscopy of the noncentrosymmetric superconductor Mo_3C . Physical Review B, 2018, 97, .	1.1	8
15	Carrier mobility and scattering lifetime in electric double-layer gated few-layer graphene. Applied Surface Science, 2017, 395, 37-41.	3.1	16
16	Proximity Eliashberg theory of electrostatic field-effect doping in superconducting films. Physical Review B, 2017, 96, .	1.1	24
17	Control of bulk superconductivity in a BCS superconductor by surface charge doping via electrochemical gating. Physical Review B, 2017, 95, .	1.1	28
18	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.	3.1	6

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19	Superconducting Transition Temperature Modulation in NbN via EDL Gating. Journal of Superconductivity and Novel Magnetism, 2016, 29, 587-591.	0.8	18
20	Fermi-Surface Topological Phase Transition and Horizontal Order-Parameter Nodes in CaFe ₂ As ₂ Under Pressure. Scientific Reports, 2016, 6, 26394.	1.6	16
21	Resistivity in Ba(FeCo)As: Comparison of thin films and single crystals. Physica Status Solidi (B): Basic Research, 2015, 252, 821-827.	0.7	3
22	Possible mixed coupling mechanism in FeTe _{1-x} Se _x within a multiband Eliashberg approach. Journal of Physics Condensed Matter, 2015, 27, 435701.	0.7	1
23	Point-contact Andreev-reflection spectroscopy in Fe(Te,Se) films: multiband superconductivity and electron-boson coupling. Superconductor Science and Technology, 2014, 27, 124014.	1.8	17
24	Advanced surface characterization of Ba(Fe _{0.92} Co _{0.08}) ₂ As ₂ epitaxial thin films. Applied Surface Science, 2014, 312, 23-29.	3.1	5
25	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.	0.6	4
26	Point contact spectroscopy in Fe-based superconductors: Recent advancements and future challenges. Current Opinion in Solid State and Materials Science, 2013, 17, 72-80.	5.6	5
27	Point-contact Andreev-reflection spectroscopy in anisotropic superconductors: The importance of directionality (Review Article). Low Temperature Physics, 2013, 39, 199-210.	0.2	18
28	Huge field-effect surface charge injection and conductance modulation in metallic thin films by electrochemical gating. Applied Surface Science, 2013, 269, 17-22.	3.1	18
29	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, 1337-1347. Doping and critical-temperature dependence of the energy gaps in Ba(Fe _{1-x} Co _x) ₂ As ₂ . Superconductor Science and Technology, 2013, 26, 065007.	0.8	4
30		1.1	14
31	Point-contact spectroscopy in Co-doped CaFe ₂ As ₂ : nodal superconductivity and topological Fermi surface transition. Superconductor Science and Technology, 2012, 25, 065007.	1.8	13
32	Strong-coupling d-wave superconductivity in PuCoGa ₅ probed by point-contact spectroscopy. Nature Communications, 2012, 3, 786.	5.8	49
33	Large Conductance Modulation of Gold Thin Films by Huge Charge Injection via Electrochemical Gating. Physical Review Letters, 2012, 108, 066807.	2.9	63
34	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.	1.8	12
35	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.	0.8	9
36	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.	8.1	85

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37	Predictions of Multiband $s\pm$ Strong-Coupling Eliashberg Theory Compared to Experimental Data in Iron Pnictides. Journal of Superconductivity and Novel Magnetism, 2011, 24, 247-253.	0.8	18
38	Probing multiband superconductivity by point-contact spectroscopy. Superconductor Science and Technology, 2010, 23, 043001.	1.8	194
39	Investigating point defects in irradiated boron-doped diamond films by temperature-dependent electrical properties and scanning tunneling microscopy and spectroscopy. Journal of Materials Research, 2010, 25, 444-457.	1.2	6
40	Multigap Superconductivity and Strong Electron-Boson Coupling in Fe-Based Superconductors: A Point-Contact Andreev-Reflection Study of $BaFe_{1-x}As_2$. Superconductor Science and Technology, 2009, 22, 025012.	2.9	68
41	Effect of Li-Al co-doping on the energy gaps of MgB ₂ . Superconductor Science and Technology, 2009, 22, 025012.	1.8	9
42	Point-contact Andreev-reflection spectroscopy in ReFeAsO _{1-x} F _x (Re = La, Sm): Possible evidence for two nodeless gaps. Physica C: Superconductivity and Its Applications, 2009, 469, 512-520.	0.6	53
43	Single crystals of LnFeAsO _{1-x} F _x (Ln=La, Pr, Nd, Sm, Gd) and Ba _{1-x} Rb _x Fe ₂ As ₂ : Growth, structure and superconducting properties. Physica C: Superconductivity and Its Applications, 2009, 469, 370-380.	0.6	120
44	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.	0.8	4
45	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.	0.8	6
46	Two-gap superconductivity in the Fe-1111 superconductor LaFeAsO _{1-x} F _x : A point-contact Andreev-reflection study. Open Physics, 2009, 7, .	0.8	7
47	Three-band $s\pm$ Eliashberg theory and the superconducting gaps of iron pnictides. Physical Review B, 2009, 80, .		56
48	Investigation of Li-doped MgB ₂ . Superconductor Science and Technology, 2009, 22, 095014.	1.8	5
49	Coexistence of two order parameters and a pseudogaplike feature in the iron-based superconductor LaFeAsO _{1-x} F _x . Physical Review B, 2009, 79, .	1.1	55
50	Evidence for two-gap nodeless superconductivity in SmFeAsO. Physical Review B, 2009, 80, .	1.1	61
51	Point-contact Andreev-reflection spectroscopy in segregation-free Mg _{1-x} Al _x B ₂ single crystals up to $x = 0.32$. Journal of Physics Condensed Matter, 2008, 20, 085225.	0.7	21
52	Evidence for Gap Anisotropy in CaC ₆ from Directional Point-Contact Spectroscopy. Physical Review Letters, 2008, 100, 207004.	2.9	46
53	Neutron irradiation effects on two gaps in MgB ₂ . Physica C: Superconductivity and Its Applications, 2007, 456, 144-152.	0.6	13
54	Point-contact Andreev-reflection spectroscopy in MgB ₂ : The role of substitutions. Physica C: Superconductivity and Its Applications, 2007, 456, 134-143.	0.6	20

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55	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.	0.6	1
56	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.	0.8	5
57	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.	0.8	2
58	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.	0.6	5
59	Effect of the magnetic field on the gaps of MgB ₂ : A directional point-contact study. Journal of Physics and Chemistry of Solids, 2006, 67, 424-427.	1.9	1
60	Andreev-reflection measurements in RuSr ₂ GdCu ₂ O ₈ . Journal of Physics and Chemistry of Solids, 2006, 67, 597-600.	1.9	3
61	A point-contact study of the superconducting gaps in Al-substituted and C-substituted MgB ₂ single crystals. Journal of Physics and Chemistry of Solids, 2006, 67, 360-364.	1.9	10
62	Point-Contact Spectroscopy in Doped and Irradiated MgB ₂ . Advances in Science and Technology, 2006, 47, 75.	0.2	0
63	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.	2.9	35
64	Point-contact spectroscopy in neutron-irradiated MgB ₂ . Physical Review B, 2006, 74, .	1.1	30
65	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
66	The superconducting gaps of C-substituted and Al-substituted MgB ₂ single crystals by point-contact spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1656-1661.	0.8	5
67	Al substitution in MgB ₂ crystals: Influence on superconducting and structural properties. Physical Review B, 2005, 71, .	1.1	110
68	Evidence for single-gap superconductivity in Mg(B _{1-x} C _x) ₂ single crystals with x=0.132 from point-contact spectroscopy. Physical Review B, 2005, 71, .	1.1	71
69	Carbon substitutions in MgB ₂ within the two-band Eliashberg theory. Physical Review B, 2005, 71, .	1.1	36
70	Critical field of Al-doped MgB ₂ samples: Correlation with the suppression of the ħf-band gap. Physical Review B, 2005, 71, .	1.1	76
71	Point-contact spectroscopy in MgB ₂ : from fundamental physics to thin-film characterization. Superconductor Science and Technology, 2004, 17, S93-S100.	1.8	12
72	Magnetic-field dependence of the gaps in a two-band superconductor: A point-contact study of MgB ₂ single crystals. Physical Review B, 2004, 69, .	1.1	41

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73	Andreev-reflection spectroscopy in ZrB ₁₂ single crystals. Superconductor Science and Technology, 2004, 17, S250-S254.	1.8	35
74	The determination of the electron-phonon interaction from tunneling data in the two-band superconductor MgB ₂ . Physica C: Superconductivity and Its Applications, 2004, 408-410, 353-354.	0.6	3
75	Directional point-contact spectroscopy of MgB ₂ single crystals in magnetic fields: two-band superconductivity and critical fields. Physica C: Superconductivity and Its Applications, 2004, 408-410, 796-798.	0.6	2
76	Point-contact spectroscopy in MgB ₂ single crystals in magnetic field. Physica C: Superconductivity and Its Applications, 2003, 385, 255-263.	0.6	31
77	Phonon Dispersion and Lifetimes in MgB ₂ . Physical Review Letters, 2003, 90, 095506.	2.9	139
78	POSSIBLE d + id SCENARIO IN La _{2-x} Sr _x CuO ₄ BY POINT-CONTACT MEASUREMENTS. International Journal of Modern Physics B, 2003, 17, 649-654.	1.0	2
79	Independent determination of the two gaps by directional point-contact spectroscopy in MgB ₂ single crystals. Superconductor Science and Technology, 2003, 16, 171-175.	1.8	13
80	Direct Evidence for Two-Band Superconductivity in MgB ₂ Single Crystals from Directional Point-Contact Spectroscopy in Magnetic Fields. Physical Review Letters, 2002, 89, 247004.	2.9	238
81	Electrical anisotropy in high-T _c granular superconductors in a magnetic field. Physical Review B, 2002, 66, .	1.1	46
82	ELIASHBERG EQUATIONS AND THE PHENOMENOLOGY OF FIELD-EFFECT-DOPED C60. International Journal of Modern Physics B, 2002, 16, 1539-1546.	1.0	3
83	GAP MEASUREMENTS IN MgB ₂ BREAK-JUNCTION AND POINT-CONTACT HETEROSTRUCTURES: TEST OF THE TWO-BAND MODELS. International Journal of Modern Physics B, 2002, 16, 1553-1561.	1.0	3
84	Tunneling conductance of SIN junctions with different gap symmetries and non-magnetic impurities by direct solution of real-axis Eliashberg equations. Physica C: Superconductivity and Its Applications, 2002, 377, 292-303.	0.6	7
85	Doping dependence of the superconducting gap by Andreev reflection in Au/La _{2-x} Sr _x CuO ₄ point-contact junctions. Journal of Physics and Chemistry of Solids, 2002, 63, 2369-2373.	1.9	1
86	Temperature and junction-type dependency of Andreev reflection in MgB ₂ . Journal of Physics and Chemistry of Solids, 2002, 63, 2319-2323.	1.9	12
87	Evidence for pseudogap and phase-coherence gap separation by Andreev reflection experiments in Au/La _{2-x} Sr _x CuO ₄ point-contact junctions. European Physical Journal B, 2001, 22, 411-414.	0.6	29
88	Josephson Effect in MgB ₂ Break Junctions. Physical Review Letters, 2001, 87, 097001.	2.9	65
89	Conductance anisotropy in granular high-T _c superconductors in a magnetic field. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 1039-1045.	0.6	0
90	Solution of real-axis Eliashberg equations with different gap symmetries and tunneling density of states. Physica C: Superconductivity and Its Applications, 2000, 341-348, 299-300.	0.6	1

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91	ab-plane resistivity and possible charge stripe ordering in strongly underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 1779-1780.	0.6	3
92	Anisotropy of the electrical resistance in high-Tc granular superconductors under magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 1869-1870.	0.6	5
93	TEMPERATURE AND DOPING DEPENDENCE OF ANDREEV REFLECTION IN Au/ $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ POINT-CONTACT JUNCTIONS. <i>International Journal of Modern Physics B</i> , 2000, 14, 3472-3479.	1.0	2
94	POSSIBLE EVIDENCE OF CHARGE-STRIPE ORDERING IN THE ab-PLANE RESISTIVITY OF STRONGLY UNDERDOPED $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ SINGLE CRYSTALS. <i>International Journal of Modern Physics B</i> , 2000, 14, 2779-2784.	1.0	2
95	REAL-AXIS SOLUTION OF ELIASHBERG EQUATIONS IN VARIOUS ORDER-PARAMETER SYMMETRIES AND TUNNELING CONDUCTANCE OF OPTIMALLY-DOPED HTSC. <i>International Journal of Modern Physics B</i> , 2000, 14, 2944-2949.	1.0	1
96	The Superconducting Order Parameter in High-Tc Superconductors – A Point-Contact Spectroscopy Viewpoint. , 0, , .		0