Iman Askerzade

List of Publications by Year
in descending order

111	796	567281	610901
papers	citations	15 h-index	24 g-index

114	114	114	310
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Ginzburg-Landau analysis of the upper critical fieldHc2in MgB2. Superconductor Science and Technology, 2002, 15, L13-L16.	3.5	122
2	Two-band GinzburgÂLandau theory for the lower critical fieldHc1in MgB2. Superconductor Science and Technology, 2002, 15, L17-L20.	3.5	44
3	Unconventional Superconductors. Springer Series in Materials Science, 2012, , .	0.6	44
4	Title is missing!. Physics-Uspekhi, 2006, 49, 1003.	2.2	32
5	Modern Aspects of Josephson Dynamics and Superconductivity Electronics. Mathematical Engineering, 2017, , .	0.2	27
6	Ginzburgâ€“Landau theory for two-band s-wave superconductors: application to non-magnetic borocarbides LuNi2B2C, YNi2B2C and magnesium diboride MgB2. Physica C: Superconductivity and Its Applications, 2003, 397, 99-111.	1.2	26
7	A Novel Action Recognition Framework Based on Deep-Learning and Genetic Algorithms. IEEE Access, 2020, 8, 100631-100644.	4.2	25
8	Numerical Study of Iâ€“V Characteristics of Externally Shunted Josephson Junctions With Unharmonic Current-Phase Relation. IEEE Transactions on Applied Superconductivity, 2012, 22, 1400106-1400106.	1.7	20
9	Temperature dependence of some superconducting state parameters of a bulk MgB2 in two-band Ginzburgâ€“Landau theory. Physica C: Superconductivity and Its Applications, 2003, 390, 281-285.	1.2	19
10	Josephson-effect samplers: A review. Technical Physics, 2006, 51, 393-400.	0.7	19
11	Numerical Study of Josephson Junction Qubits With an Unharmonic Currentâ€“Phase Relation. IEEE Transactions on Applied Superconductivity, 2011, 21, 3541-3547.	1.7	19
12	Effects of anisotropy on the critical temperature in layered nonadiabatic superconductors. Physica C: Superconductivity and Its Applications, 2003, 384, 404-410.	1.2	18
13	Study of layered superconductors in the framework of an electronâ€“phonon coupling mechanism. Physics-Uspekhi, 2009, 52, 977-988.	2.2	18
14	Effects of anharmonicity of current-phase relation in Josephson junctions (Review Article). Low Temperature Physics, 2015, 41, 241-259.	0.6	18
15	London penetration depth Î»(T) in two-band Ginzburgâ€“Landau theory: application to MgB2. Solid State Communications, 2002, 123, 63-67.	1.9	17
16	Chaotic Dynamics of Externally Shunted Josephson Junction with Unharmonic CPR. Journal of Superconductivity and Novel Magnetism, 2013, 26, 839-843.	1.8	17
17	Anomaly Based Distributed Denial of Service Attack Detection and Prevention with Machine Learning. , 2018, , .		17
18	Thermodynamic Magnetic Field and Specific Heat Jump of a Bulk Superconductor MgB2Using Two-Band Ginzburgâ€“Landau Theory. Journal of the Physical Society of Japan, 2002, 71, 1637-1639.	1.6	15

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19	Anisotropy of the upper critical field in MgB2: The two-band Ginzburg-Landau theory. JETP Letters, 2005, 81, 583-586.	1.4	14
20	The influence of Coulomb repulsion and fluctuation effects on the critical temperature in layered superconductors. Journal of Physics Condensed Matter, 1993, 5, 1099-1108.	1.8	13
21	SPECIFIC HEAT JUMP OF QUASI-TWO-DIMENSIONAL SUPERCONDUCTORS IN BCS APPROXIMATION: APPLICATION TO MgB2. Modern Physics Letters B, 2003, 17, 11-18.	1.9	13
22	Using ResNet Transfer Deep Learning Methods in Person Identification According to Physical Actions. IEEE Access, 2020, 8, 220364-220373.	4.2	11
23	Tunnel josephson junctions as highly sensitive comparators in stroboscopic converters. Technical Physics, 2000, 45, 66-69.	0.7	10
24	Effects of the superconductivity transition on the response of YBCO edge transition bolometers. Superconductor Science and Technology, 2003, 16, 1554-1558.	3.5	10
25	Alternative numerical modeling of a superconducting charge qubit as an eigenvalue problem. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 775-792.	0.9	10
26	Transfer characteristic of a Goto pair in small-size Josephson junctions. Technical Physics Letters, 2008, 34, 737-739.	0.7	9
27	Effect of the anharmonic phase dependence of the supercurrent on I-V hysteresis in a Josephson junction. Technical Physics, 2003, 48, 1496-1498.	0.7	8
28	Estimation Model for Bread Quality Proficiency Using Fuzzy Weighted Relevance Vector Machine Classifier. Applied Bionics and Biomechanics, 2021, 2021, 1-9.	1.1	8
29	Temperature dependence of the phase of the response of YBCO edge-transition bolometers: effects of superconductivity transition and thermal parameters. Superconductor Science and Technology, 2003, 16, 28-32.	3.5	7
30	THE UPPER CRITICAL FIELD OF THIN FILMS OF TWO-BAND SUPERCONDUCTORS: AN APPLICATION TO MgB2. Modern Physics Letters B, 2004, 18, 1525-1531.	1.9	7
31	The Effect of Fluctuations on a Single-Contact Interferometer: Quantum Considerations. Technical Physics Letters, 2005, 31, 680.	0.7	7
32	Angular dependence of upper critical field in two-band Ginzburgâ€“Landau theory. Physica C: Superconductivity and Its Applications, 2007, 459, 56-61.	1.2	7
33	Effects of Thermal Fluctuations on Dynamics of Josephson Junction with Unconventional Current-Phase Relation. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3149-3154.	1.8	7
34	Assessment of Iterative Semi-Supervised Feature Selection Learning for Sentiment Analyses: Digital Currency Markets. , 2020, , .		7
35	Fluctuation of Specific Heat in Two-Band Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 275-278.	1.8	6
36	Critical temperature of noninteracting bosonic gases in cubic optical lattices at arbitrary integer fillings. Physical Review E, 2014, 90, 032124.	2.1	6

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37	Chaotic Dynamics of a Fractal Josephson Junction. Journal of Superconductivity and Novel Magnetism, 2015, 28, 303-307.	1.8	6
38	Surface critical magnetic field Hc3(T) of a bulk superconductor MgB2 using two-band Ginzburg-Landau theory. Pramana - Journal of Physics, 2003, 61, 611-616.	1.8	5
39	Temperature dependence of critical currents of two-gap superconductors. EPJ Applied Physics, 2006, 36, 267-270.	0.7	5
40	Thermodynamics of noninteracting bosonic gases in cubic optical lattices versus ideal homogeneous Bose gases. International Journal of Modern Physics B, 2015, 29, 1550123.	2.0	5
41	Fluctuation of the delay time of nonhysteretic Josephson junctions during a linear current rise. Technical Physics, 1998, 43, 1123-1124.	0.7	4
42	Point Normal Metal-Superconductor (NS) Contact in Nonballistic Regime. Modern Physics Letters B, 2003, 17, 649-656.	1.9	4
43	Numerical simulation of vortex nucleation in the two-band Ginzburgâ€"Landau model. Technical Physics, 2010, 55, 896-899.	0.7	4
44	Angular effects on upper critical field in LiFeAs using two-band Ginzburgâ€"Landau theory. Superconductor Science and Technology, 2012, 25, 095007.	3.5	4
45	Escape rate in Josephson junctions between single-band and two-band superconductors. Physica C: Superconductivity and Its Applications, 2020, 574, 1353647.	1.2	4
46	Manipulator Detection in Cryptocurrency Markets Based on Forecasting Anomalies. IEEE Access, 2021, 9, 108819-108831.	4.2	4
47	Harmonic Response of a Bulk Superconductor MgB2. Modern Physics Letters B, 2003, 17, 691-695.	1.9	3
48	Ginzburgâ€"Landau Theory for Two-Band Isotropic s-Wave Superconductors. International Journal of Modern Physics B, 2003, 17, 3001-3020.	2.0	3
49	TEMPERATURE DEPENDENCE OF THE CRITICAL CURRENT DENSITY OF SUPERCONDUCTORS IN TWO-BAND GINZBURGâ€"LANDAU THEORY: APPLICATION TO MgB2. International Journal of Modern Physics B, 2004, 18, 1931-1936.	2.0	3
50	Harmonic generation in an Ag-clad bulk BSCCO superconductor. Physica Status Solidi A, 2004, 201, 995-1000.	1.7	3
51	Plasma modes in layered superconductors. Physica C: Superconductivity and Its Applications, 2005, 420, 11-16.	1.2	3
52	CRITICAL TEMPERATURE OF LAYERED SUPERCONDUCTORS IN INTERMEDIATE e-ph COUPLING: APPLICATION TO MgB2. International Journal of Modern Physics B, 2006, 20, 3093-3099.	2.0	3
53	Critical temperature of two-band superconductors in intermediate eâ€"ph coupling: The case of MgB2. Journal of Physics and Chemistry of Solids, 2007, 68, 1311-1314.	4.0	3
54	Influence of Bloch inductance on the time resolution of balanced comparators based on small Josephson junctions. Automatic Control and Computer Sciences, 2016, 50, 10-14.	0.8	3

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55	BCS Superconductivity of Dirac Electrons in Graphene Monolayer. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1871-1874.	1.8	3
56	Critical current of dc SQUID on Josephson junctions with unconventional current-phase relation. Low Temperature Physics, 2020, 46, 919-922.	0.6	3
57	Frustration effect on escape rate in Josephson junctions between single-band and three-band superconductors in the macroscopic quantum tunneling regime. Low Temperature Physics, 2021, 47, 282-286.	0.6	3
58	Effect of the Coulomb blockade of Cooper pairs on the dynamic properties of small-size Josephson junctions. Technical Physics, 2003, 48, 519-522.	0.7	2
59	The effect of alternating current on the thermal activation threshold of the tunnel Josephson junctions. Technical Physics Letters, 2004, 30, 857-858.	0.7	2
60	Anisotropy of Critical Fields in MgB ₂ : Twoâ€“Band Ginzburgâ€“Landau Theory for Layered Superconductors. Communications in Theoretical Physics, 2009, 51, 563-569.	2.5	2
61	Thermoelectromotive force in Bi2Sr2Ca2Cu4O11 bismuth-based high-temperature superconductor. Technical Physics, 2010, 55, 1538-1539.	0.7	2
62	Anisotropy Parameters of Critical Fields in LiFeAs Using Two-Band Ginzburgâ€“Landau Theory. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1903-1907.	1.8	2
63	Time resolution of Josephson balanced comparators with shunt resistance. Automatic Control and Computer Sciences, 2014, 48, 239-242.	0.8	2
64	Fluctuation conductivity in two-band superconductor SmFeAsO_{0.8}F_{0.2}. Materials Science-Poland, 2015, 33, 644-648.	1.0	2
65	Fluctuation of Diamagnetic Susceptibility in Two-band Superconductors. Journal of Superconductivity and Novel Magnetism, 2015, 28, 319-322.	1.8	2
66	Oxygen Isotope Exponent as a Function of the Numbers of CuO2 Layers in Optimally Doped Superconductors Bi2Sr2Ca nâ^'1Cu n O2n+4+Î´ (n = 1, 2, 3). Journal of Superconductivity and Novel Magnetism, 2018, 31, 1043-1046.	1.8	2
67	The Influence of Zn on Superconducting Properties of Bi2Sr2Ca1Cu2OX. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3033-3036.	1.8	2
68	Order parameter anisotropy of MgB2 using specific heat jump of layered superconductors. Pramana - Journal of Physics, 2003, 61, 1145-1149.	1.8	1
69	Current-voltage characteristics of nanodimensional normal metal-superconductor point diffusion junctions. Technical Physics Letters, 2003, 29, 913-916.	0.7	1
70	Investigations of even-order harmonic susceptibilities of MgB/sub 2/ superconductors using critical state approach. IEEE Transactions on Applied Superconductivity, 2003, 13, 3514-3517.	1.7	1
71	Ginzburgâ€“Landau Equations for Two-Band Superconductors: Application to MgB2, LuNi2B2C and YNi2B2C. Physica Scripta, 2004, 69, 234-243.	2.5	1
72	The Effect of Alternating Current on the Plasma Frequency of the Tunnel Josephson Junctions. Technical Physics Letters, 2005, 31, 622.	0.7	1

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73	Pair-Breaking Critical Current Density of Two-Band Superconductor MgB ₂. Communications in Theoretical Physics, 2005, 44, 749-751.	2.5	1
74	Plasma frequency of the tunnel Josephson junctions with anharmonic current-phase relationship. Technical Physics Letters, 2007, 33, 723-725.	0.7	1
75	Fluctuation conductivity of Bi2Sr2CaCu2O8 + Î´ in a two-band superconductivity model. Technical Physics Letters, 2009, 35, 521-523.	0.7	1
76	Splitting of the energy level of a Josephson-junction qubit with an anharmonic current-phase relation. Technical Physics, 2011, 56, 744-746.	0.7	1
77	Temperature dependence of the anisotropy parameter of the LiFeAs upper critical field in the two-band Ginzburg-Landau theory. Technical Physics, 2013, 58, 888-891.	0.7	1
78	Specific heat jump of two-band superconductor KFe2As2 using Ginzburg-Landau theory. Materials Science-Poland, 2014, 32, 465-469.	1.0	1
79	Dynamic properties of a Josephson junction balanced comparator with Coulomb blockade. Technical Physics, 2016, 61, 1427-1429.	0.7	1
80	Anisotropy of Critical Current Density in LiFeAs Using Two-Band Ginzburg-Landau Theory. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1655-1658.	1.8	1
81	The effect of electron density fluctuations on critical temperature in layered superconductors with arbitrary thickness of conducting layer. Physica C: Superconductivity and Its Applications, 2018, 547, 27-29.	1.2	1
82	Influence of Thermal Fluctuations on Sensitivity of Balanced Comparators Based on Small Josephson Junctions. Automatic Control and Computer Sciences, 2018, 52, 306-310.	0.8	1
83	The influence of thermal fluctuations on Coulomb blockade edge in small Josephson junctions with linear growing of voltage. Low Temperature Physics, 2018, 44, 210-212.	0.6	1
84	Angular Dependence of the Critical Current Density in Two-Band Ginzburg-Landau Theory. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1921-1926.	1.8	1
85	Influence of Unconventional Current-Phase Relation on Return Current of Tunnel Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3407-3410.	1.8	1
86	Return current of dc SQUID based on tunnel Josephson junctions with unconventional current-phase relation. Low Temperature Physics, 2021, 47, 392-395.	0.6	1
87	Chaotic Phenomena in Josephson Systems. Mathematical Engineering, 2017, , 143-172.	0.2	1
88	Digital Superconductivity Electronics. Mathematical Engineering, 2017, , 89-118.	0.2	1
89	The threshold current of a balanced double-contact low-inductance interferometer. Technical Physics, 2000, 45, 937-938.	0.7	0
90	The effect of boundary conditions on the superconducting transition critical temperature in superlattices. Technical Physics, 2001, 46, 270-271.	0.7	0

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91	The effect of small thermal fluctuations on the performance of a single-contact interferometer. Technical Physics, 2001, 46, 1575-1578.	0.7	0
92	Effect of superconductivity-magnetism interaction on the differential conductivity in Ho(NiB)2C/Ag point contacts. Technical Physics, 2002, 47, 1061-1063.	0.7	0
93	Suppression of interference by quantum fluctuations in a Josephson interferometer with a single small junction. Technical Physics, 2002, 47, 1064-1066.	0.7	0
94	Influence of the interplay between helicoidal magnetic ordering and superconductivity on the differential conductance in HoNi2B2C/Ag junctions. Pramana - Journal of Physics, 2003, 60, 1287-1291.	1.8	0
95	Nonlinear Temperature Dependence of Magnetization of Two-Band Superconductors Near Upper Critical Field. Communications in Theoretical Physics, 2007, 48, 949-952.	2.5	0
96	Phase qubit on a superconducting single-junction interferometer. Technical Physics Letters, 2010, 36, 93-95.	0.7	0
97	Pressure and Doping Effects on Critical Temperature in MgB ₂ and Nonmagnetic Borocarbides within Two-Band Eliashberg Theory. Communications in Theoretical Physics, 2010, 53, 1181-1184.	2.5	0
98	Critical current density of a YNi2B2C superconductor in the two-band Ginzburg-Landau model. Technical Physics, 2011, 56, 557-559.	0.7	0
99	Numerical simulation of the vortex dynamics in the two-band Ginzburg-Landau model. Technical Physics, 2012, 57, 131-133.	0.7	0
100	Vortex lattice in LiFeAs superconductor in the two-band Ginzburg-Landau model. Technical Physics, 2014, 59, 1728-1731.	0.7	0
101	Energy spectrum of a Josephson-junction qubit with an anharmonic currentâ€”phase relationship. Technical Physics, 2015, 60, 1402-1404.	0.7	0
102	Comparison of Region Filling Algorithms Using Texture Synthesis Methodologies. , 2019, , .		0
103	Effect of thermal fluctuations on dynamics of small Josephson junctions. Modern Physics Letters B, 2019, 33, 1950306.	1.9	0
104	Plasmon spectrum of graphene monolayer on substrate. Modern Physics Letters B, 2019, 33, 1950102.	1.9	0
105	Influence of unconventional current-phase relation of Josephson junction on the escape rate in macroscopic quantum tunneling regime. Low Temperature Physics, 2019, 45, 1072-1075.	0.6	0
106	Effect of Zn on thermoelectric power in superconducting Bi2Sr2CaxZn1â^'xCu2O8+y compounds. Low Temperature Physics, 2021, 47, 106-109.	0.6	0
107	TWO-BAND GINZBURG-LANDAU THEORY AND ITS APPLICATION TO RECENTLY DISCOVERED SUPERCONDUCTORS. , 2005, , .		0
108	A NOVEL APPROACH TO DEFINITION OF FUZZY FUNCTIONS. Communications Faculty of Science University of Ankara Series A1Mathematics and Statistics, 0, , 001-007.	0.5	0

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109	Foundations of Josephson Junction Dynamics. Mathematical Engineering, 2017, , 1-48.	0.2	0
110	A data science study for determining food quality: an application to wine. Communications Faculty of Science University of Ankara Series A1Mathematics and Statistics, 2018, 68, 762-770.	0.5	0
111	Frustration Effect on Penetration Depth in Long Josephson Junctions Between Single- and Multi-band Superconductors. Journal of Superconductivity and Novel Magnetism, 0, , .	1.8	0