

Oleg V Dolgov

List of Publications by Year in descending order

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61
papers

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citations

304743

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62
all docs

62
docs citations

62
times ranked

1537
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in MgB ₂ : Clean or Dirty?. Physical Review Letters, 2002, 89, 107002.	7.8	350
2	On an admissible sign of the static dielectric function of matter. Reviews of Modern Physics, 1981, 53, 81-93.	45.6	272
3	Specific heat of MgB ₂ in a one- and a two-band model from first-principles calculations. Journal of Physics Condensed Matter, 2002, 14, 1353-1360.	1.8	261
4	Band Filling and Interband Scattering Effects in MgB ₂ : Carbon versus Aluminum Doping. Physical Review Letters, 2005, 94, 027002.	7.8	190
5	Electronic states and optical spectra of HTSC with electron-phonon coupling. Physica C: Superconductivity and Its Applications, 1991, 178, 266-274.	1.2	158
6	In-Plane Spectral Weight Shift of Charge Carriers in YBa ₂ Cu ₃ O _{6.9} . Science, 2004, 304, 708-710.	12.6	99
7	Properties of strong-coupled superconductors. Physical Review B, 1988, 38, 11290-11295.	3.2	78
8	Interband superconductivity: Contrasts between Bardeen-Cooper-Schrieffer and Eliashberg theories. Physical Review B, 2009, 79, .	3.2	78
9	Thermodynamics of two-band superconductors: The case of MgB ₂ . Physical Review B, 2005, 72, .	3.2	67
10	Anisotropic impurities in anisotropic superconductors. Physical Review B, 1999, 60, 13062-13069.	3.2	52
11	Manifestation of multiband optical properties of MgB ₂ . Solid State Communications, 2002, 121, 479-484.	1.9	52
12	Strong-coupling effects in alkali-metal-doped C ₆₀ . Physical Review B, 1993, 47, 538-541.	3.2	51
13	Thermal pair-breaking in superconductors with strong electron-phonon interaction. Solid State Communications, 1991, 80, 511-515.	1.9	44
14	A tunnelling study of the oxide superconductors La _{2-x} Sr _x CuO _{4-y} and EuBa ₂ Cu ₃ O ₇ . Superconductor Science and Technology, 1988, 1, 205-209.	3.5	43
15	Title is missing!. Physics-Uspekhi, 2007, 50, 933.	2.2	39
16	Electron-phonon properties of pnictide superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 628-634.	1.2	39
17	Impurities in multiband superconductors. Physics-Uspekhi, 2016, 59, 1211-1240.	2.2	33
18	Critical Temperature and Enhanced Isotope Effect in the Presence of Paramagnons in Phonon-Mediated Superconductors. Physical Review Letters, 2005, 95, 257003.	7.8	32

#	ARTICLE	IF	CITATIONS
19	Influence of electron-phonon scattering on the properties of high T _c superconductors. Solid State Communications, 1989, 72, 81-83.	1.9	29
20	TDependence of the Magnetic Penetration Depth in Unconventional Superconductors at Low Temperatures: Can It Be Linear?. Physical Review Letters, 1998, 80, 4761-4762.	7.8	29
21	Far-infrared properties of high T _c superconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 147, 317-322.	2.1	26
22	Electromagnetic response of superconductors and optical sum rule. Solid State Communications, 2002, 124, 119-124.	1.9	22
23	Estimation of the electron-phonon coupling in YBa ₂ Cu ₃ O ₇ from the resistivity. Physical Review B, 1992, 45, 2509-2511.	3.2	21
24	Ginzburg-Landau analysis of superconducting K ₃ C ₆ O. Solid State Communications, 1992, 81, 935-938.	1.9	21
25	Anomalous magnetism of small metallic clusters in a weak magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 100, 261-263.	2.1	19
26	Analysis of intermediate boson spectra from FIR data for HTSC and heavy fermion systems. Journal of Superconductivity and Novel Magnetism, 1995, 8, 611-612.	0.5	19
27	Optical response of Ba _{1-x} K _x BiO ₃ : Evidence for an unusual coupling mechanism of superconductivity. Physical Review B, 1998, 58, 9479-9484.	3.2	18
28	Comparative Description of the Microwave Surface Impedance of Nb, BaKBiO, and YBaCuO. Journal De Physique, I, 1996, 6, 2275-2290.	1.2	15
29	Forward scattering peak in the electron-phonon interaction and impurity scattering of cuprate superconductors. Physica Status Solidi (B): Basic Research, 2005, 242, 151-178.	1.5	15
30	Angle-resolved photoemission spectra of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{10}$	3.2	15
31	Conventional superconductivity in Fe-based pnictides: The relevance of intra-band electron-boson scattering. Europhysics Letters, 2009, 85, 47008.	2.0	13
32	The fluctuations in strong coupled superconductors. Solid State Communications, 1988, 67, 63-67.	1.9	11
33	Electron-phonon coupling and specific heat in YBa ₂ Cu ₃ O ₇ . Physica C: Superconductivity and Its Applications, 1992, 192, 41-46.	1.2	9
34	Renormalization factor and odd- γ gap singlet superconductivity. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 190, 189-190.	2.1	9
35	Evidence for strong electron-phonon coupling and polarons in the optical response of La _{2-x} Sr _x CuO ₄ . Physica C: Superconductivity and Its Applications, 1997, 279, 113-121.	1.2	9
36	Forward Electron-Phonon Scattering in Normal and Superconducting States. International Journal of Modern Physics B, 1998, 12, 3083-3086.	2.0	9

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37	A multiband Eliashberg approach to iron-based superconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600828.	1.5	9
38	The Ward identity and nonadiabatic corrections to the quasiparticle self-energy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 230, 79-82.	2.1	8
39	Reflectance Measurements and Superconductivity in MgB ₂ . <i>Physical Review Letters</i> , 2002, 89, 129703.	7.8	8
40	Microwave conductivity of superconductors with a strong electron-phonon interaction. <i>Solid State Communications</i> , 1994, 89, 827-831.	1.9	7
41	Optical absorption in the strong-coupling limit of Eliashberg theory. <i>Physical Review B</i> , 1996, 53, 2739-2745.	3.2	7
42	Transition radiation of moving Abrikosov vortices. <i>Physical Review B</i> , 2000, 61, 12389-12393.	3.2	7
43	Superconducting gap structure and pinning in disordered MgB ₂ films. <i>Superconductor Science and Technology</i> , 2004, 17, S350-S354.	3.5	7
44	Temperature-Dependent $s \pm$ s_{++} Transitions in the Multiband Model for Fe-Based Superconductors with Impurities. <i>Symmetry</i> , 2018, 10, 323.	2.2	7
45	Infrared spectroscopy of Nd _{2-x} Y _y Ce _z CuO ₄ ($y = 0 \leq z < 0.2$) single crystals. <i>Solid State Communications</i> , 1991, 79, 931-933.	1.9	6
46	Schopohl and Dolgov Reply. <i>Physical Review Letters</i> , 1998, 81, 4025-4026.	7.8	6
47	On the admissible values of the static magnetic permeability. <i>Solid State Communications</i> , 1983, 46, 147-149.	1.9	5
48	Superconductivity of heavy fermions in a two-band model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 125, 267-270.	2.1	4
49	Energy dependence of quasiparticle and transport relaxation rates in metals. <i>Solid State Communications</i> , 1998, 106, 409-413.	1.9	4
50	Critical temperature and the giant isotope effect in the presence of paramagnons. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 434226.	1.8	4
51	The dielectric screening and magnetic instabilities in an interacting electron gas. <i>Solid State Communications</i> , 1983, 46, 151-153.	1.9	3
52	Observation of the Holstein shift in high-T _c superconductors with thermal-modulation reflectometry. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 229, 396-402.	1.2	3
53	Non-adiabatic corrections to the quasiparticle self-energy. <i>European Physical Journal D</i> , 1996, 46, 925-926.	0.4	3
54	The electron-phonon interaction renormalized by strong correlations: The way to HTS. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 111-112.	1.2	3

#	ARTICLE	IF	CITATIONS
55	Polarons and strong electron-phonon coupling in the optical response of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. Journal of Superconductivity and Novel Magnetism, 1997, 10, 299-303.	0.5	2
56	Comparison of the Eliashberg functions determined from point-contact and break-junction tunnelling experiments in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1903-1907.	0.4	1
57	Prediction of the properties of cuprate superconductors based upon a two-gap model with magnetic impurity effects included. Proceedings of SPIE, 1996, , .	0.8	0
58	Forward electron-phonon scattering and HTS. , 1999, , .		0
59	ELECTRON-PHONON SPECTRAL FUNCTION AND TWO-BAND MODEL IN TUNNELING MEASUREMENTS ON MgB_2 . International Journal of Modern Physics B, 2003, 17, 643-648.	2.0	0
60	In memory of Evgenii Grigorievich Maksimov. Physics-Uspekhi, 2011, 54, 1195-1197.	2.2	0
61	Microwave Conductivity in Two-Band Superconductors $\text{V}_{3+x}\text{Si}_{1-x}$. Journal of Superconductivity and Novel Magnetism, 2015, 28, 331-337.	1.8	0