Alexander I Voitenko

List of Publications by Year
in descending order

105	1,151	535685 17	488211 31
papers	citations	h-index	g-index

105	105	105	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Charge-charge interaction in three-layer systems: Classical approach. Physical Review B, 2022, 105, .	1.1	0
2	Electrostatic image force energy for charges in three-layer structures: exact formulas and their approximations. Journal of Physics Condensed Matter, 2021, 33, 205002.	0.7	1
3	Orientation of adsorbed polar molecules (dipoles) in external electrostatic field. Journal of Physics Condensed Matter, 2021, 33, 035004.	0.7	2
4	Electric dipole image forces in three-layer systems: The classical electrostatic model. Journal of Chemical Physics, 2020, 152, 094705.	1.2	4
5	Break-junction tunneling spectra of Bi2212 superconducting ceramics: Influence of inhomogeneous d-wave-Cooper-pairing and charge-density-wave order parameters. Low Temperature Physics, 2020, 46, 400-413.	0.2	4
6	Non-Coulombic behavior of electrostatic charge-charge interaction in three-layer heterostructures. Journal of Electrostatics, 2019, 102, 103377.	1.0	3
7	Electrostatic Interaction of Point Charges in Three-Layer Structures: The Classical Model. Condensed Matter, 2019, 4, 44.	0.8	5
8	The â€˜non-Coulombicâ€™ character of classical electrostatic interaction between charges near interfaces. European Journal of Physics, 2018, 39, 045203.	0.3	4
9	Electrostatic interaction near the interface between dielectric media taking into account the nonlocality of the Coulomb field screening. Journal of Molecular Liquids, 2018, 267, 166-176.	2.3	2
10	Quasiparticle conductance-voltage characteristics for break junctions involvingd-wave superconductors: charge-density-wave effects. Journal of Physics Condensed Matter, 2017, 29, 505602.	0.7	4
11	How does the break-junction quasiparticle tunnel conductance look like for d-wave superconductors?. Low Temperature Physics, 2017, 43, 1172-1180.	0.2	3
12	Electrostatic charge-charge and dipole-dipole interactions near the surface of a medium with screening non-locality (Review Article). Low Temperature Physics, 2016, 42, 661-671.	0.2	6
13	Spatial distribution of superconducting and charge-density-wave order parameters in cuprates and its influence on the quasiparticle tunnel current (Review Article). Low Temperature Physics, 2016, 42, 863-872.	0.2	11
14	Influence of the spatially inhomogeneous gap distribution on the quasiparticle current inc-axis junctions involvingd-wave superconductors with charge density waves. Journal of Physics Condensed Matter, 2016, 28, 445701.	0.7	5
15	Quasiparticle current along the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>c</mml:mi></mml:math>axis in junctions involving<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math>-wave	1.1	7
16	Stationary Josephson current as a tool to detect charge density waves in high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si34.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> oxides. Physica C: Superconductivity and Its Applications, 2015, 516, 62-73.	0.6	3
17	Anomalous temperature dependence of the stationary Josephson tunnel current in junctions betweend-wave superconductors. Low Temperature Physics, 2014, 40, 816-822.	0.2	4
18	Stationary Josephson current in junctions involving d-wave superconductors with charge density waves: the temperature dependence and deviations from the law of corresponding states. European Physical Journal B, 2014, 87, 1.	0.6	4

#	Article	IF	Citations
19	Charge density waves as the origin of dip-hump structures in the differential tunneling conductance of cuprates: The case of d-wave superconductivity. Physica C: Superconductivity and its Applications, 2014, 503, 7-13.	0.6	13
20	Charge density waves ind-wave superconductors: Thermodynamics and Josephson tunneling (Review) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	10
21	Orientation peculiarities of dc Josephson tunneling between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-wave superconductors with charge density waves. Physical Review B, 2013, 87, .	1.1	12
22	Dynamic image forces near a metal surface and the point-charge motion. European Journal of Physics, 2012, 33, 1289-1299.	0.3	3
23	Image forces for a point-like dipole near a plane metal surface: An account of the spatial dispersion of dielectric permittivity. Surface Science, 2012, 606, 510-515.	0.8	17
24	Role of dipole image forces in molecular adsorption. European Physical Journal B, 2012, 85, 1.	0.6	12
25	dc Josephson current for d-wave superconductors with charge density waves. Low Temperature Physics, 2012, 38, 326-332.	0.2	6
26	d-Wave Superconductivity and s-Wave Charge Density Waves: Coexistence between Order Parameters of Different Origin and Symmetry. Symmetry, 2011, 3, 699-749.	1.1	18
27	DC Current in 4-N-Pentyl-4â€²-Cyanobiphenyl Liquid Crystal Cells. Molecular Crystals and Liquid Crystals, 2011, 540, 182-187.	0.4	3
28	The phase diagram for coexisting d-wave superconductivity and charge-density waves: cuprates and beyond. Journal of Physics Condensed Matter, 2011, 23, 385701.	0.7	18
29	Charge density waves in partially dielectrized d-pairing superconductors. Physics of the Solid State, 2010, 52, 18-26.	0.2	2
30	Interplay between charge-density-wave gapping and d-wave superconductivity in high-T oxides. Physica C: Superconductivity and Its Applications, 2010, 470, S78-S79.	0.6	0
31	Competition of Superconductivity and Charge Density Waves in Cuprates: Recent Evidence and Interpretation. Advances in Condensed Matter Physics, 2010, 2010, 1-40.	0.4	51
32	Coexistence of Charge Density Waves and d-Wave Superconductivity in Cuprates. Sharing of the Fermi Surface. Zeitschrift FÃ¼r Kristallographie, 2010, 225, .	1.1	1
33	Charge density waves in d-wave superconductors. Low Temperature Physics, 2010, 36, 1049-1057.	0.2	4
34	Transient and steady electric currents through a liquid crystal cell. Liquid Crystals, 2010, 37, 1171-1181.	0.9	12
35	Model for the coexistence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-wave superconducting and charge-density-wave order parameters in high-temperature cuprate superconductors. Physical Review B, 2009, 80, .	1.1	20
36	Charge-density-wave features in tunnel spectra of high-Tcsuperconductors. Journal of Physics: Conference Series, 2009, 150, 052047.	0.3	0

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37	Tunnel spectra of junctions involving BSCCO and other cuprates: Superconducting and charge-density-wave gapping. Physica C: Superconductivity and Its Applications, 2008, 468, 1145-1147.	0.6	1
38	New method for deciphering free energy landscape of three-state proteins. Journal of Chemical Physics, 2008, 129, 105102.	1.2	9
39	Temperature-dependent pseudogap-like features in tunnel spectra of high-T_ccuprates as a manifestation of charge-density waves. Journal of Physics Condensed Matter, 2008, 20, 425218.	0.7	27
40	Analysis of the pseudogap-related structure in the tunnel spectra of superconducting Bi2Sr2CaCu2O8+Î´ revealed by break-junction technique. Low Temperature Physics, 2008, 34, 409-412.	0.2	5
41	Pseudogap-Like Phenomena in Cuprates as a Manifestation of Charge-Density Waves. Acta Physica Polonica A, 2008, 114, 59-66.	0.2	0
42	Analysis of the pseudogap-related structure in tunneling spectra of superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>CaCu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> by. Physical Review B, 2007, 76, .	1.1	21
43	Charge-density-wave origin of the dip-hump structure in tunnel spectra of the BSCCO superconductor. Physical Review B, 2007, 75, .	1.1	37
44	Effect of charge density waves on the tunnel spectra of the Bi2Sr2CaCu2O8+Î´ superconductor. Physics of the Solid State, 2007, 49, 1422-1428.	0.2	0
45	Charge-Density-Wave Origin of Dip-Hump Structures in the Tunnel Spectra of Bi₂Sr₂CaCu₂O_{8+Î´}. Acta Physica Polonica A, 2007, 111, 573-580.	0.2	0
46	Excess nonspecific Coulomb ion adsorption at the metal electrode/electrolyte solution interface: Role of the surface layer. Physical Review E, 2006, 73, 021606.	0.8	14
47	Spin-dependent tunneling in junctions containing metals with charge density waves in a magnetic field. Physics of the Solid State, 2006, 48, 2240-2249.	0.2	0
48	Spin-dependent splitting of the tunnel conductivity peaks in the magnetic field for junctions involving CDW metals. Physica B: Condensed Matter, 2006, 378-380, 567-568.	1.3	0
49	Spin-Dependent Tunnel Currents in Junctions Involving Charge-Density-Wave Metals. Japanese Journal of Applied Physics, 2006, 45, 2242-2245.	0.8	1
50	Spin-Dependent Tunneling in a Magnetic Field for Junctions Involving Normal and Superconducting CDW Metals. Acta Physica Polonica A, 2006, 109, 477-484.	0.2	0
51	Spin-polarized electron tunneling between charge-density-wave metals. Low Temperature Physics, 2005, 31, 59-72.	0.2	1
52	Paramagnetic effect of magnetic field on superconductors with charge-density waves. Low Temperature Physics, 2005, 31, 41-46.	0.2	3
53	Enhancement of the paramagnetic limit for superconductors with charge-density waves. Physica C: Superconductivity and Its Applications, 2005, 426-431, 325-329.	0.6	0
54	Spatially heterogeneous character of superconductivity in MgB2 as revealed by local probe and bulk measurements. Physica C: Superconductivity and Its Applications, 2005, 426-431, 230-233.	0.6	10

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55	Manifestations of inhomogeneity in : from specific heat to tunnel measurements. Physica B: Condensed Matter, 2005, 359-361, 460-462.	1.3	2
56	Paramagnetic spin splitting of the conductances for tunnel junctions between partially gapped metals with charge density waves and normal metals or ferromagnets. Journal of Physics Condensed Matter, 2005, 17, 1907-1922.	0.7	1
57	Enhanced paramagnetic limit of the upper critical magnetic field for superconductors with charge-density waves. Journal of Physics Condensed Matter, 2004, 16, 3681-3690.	0.7	8
58	New method of the spin-polarization detection in tunnel junctions ferromagnet-insulator-charge density wave metal. JETP Letters, 2004, 80, 49-53.	0.4	0
59	Heat capacity of mesoscopically inhomogeneous superconductors: theory and applications to MgB2. Physica C: Superconductivity and Its Applications, 2004, 405, 187-211.	0.6	11
60	Tunnel Currents in Charge-Density-Wave Metalâ€“Insulatorâ€“Charge-Density-Wave Metal Structures: Magnetic Field-induced Spin-splitting of the Conductance Peaks. Journal of the Physical Society of Japan, 2004, 73, 1931-1937.	0.7	3
61	Thermodynamics of superconductors with charge-density waves. Journal of Physics Condensed Matter, 2003, 15, 2745-2753.	0.7	34
62	Heat capacity of mesoscopically disordered superconductors with emphasis on MgB2. Journal of Physics Condensed Matter, 2002, 14, 9621-9629.	0.7	13
63	Heat capacity of mesoscopically disordered superconductors: implications for MgB2. Low Temperature Physics, 2002, 28, 803-811.	0.2	6
64	Charge- and spin-density waves in existing superconductors: competition between Cooper pairing and Peierls or excitonic instabilities. Physics Reports, 2002, 367, 583-709.	10.3	188
65	Electronic Thermal Conductivity of Partially-Gapped CDW Superconductors. , 2002, , 105-113.		0
66	Charge- and spin-density-wave superconductors. Superconductor Science and Technology, 2001, 14, R1-R27.	1.8	150
67	Dynamical Image Forces near Semiconductor-Vacuum Interfaces and in Vacuum Interlayers between Semiconductors. Physica Status Solidi (B): Basic Research, 2001, 226, 133-153.	0.7	2
68	Dynamic image forces near a semiconductor-vacuum interface: The role of quantum-mechanical corrections. Physics of the Solid State, 2001, 43, 2328-2335.	0.2	1
69	Influence of mesoscopic nonhomogeneities on low-temperature properties of superconductors. Physica B: Condensed Matter, 2000, 281-282, 802-803.	1.3	0
70	Non-stationary Josephson tunneling involving superconductors with spinâ€“density waves. Physica C: Superconductivity and Its Applications, 2000, 329, 198-230.	0.6	9
71	Superconductors with charge- and spin-density waves: theory and experiment (Review). Low Temperature Physics, 2000, 26, 305-330.	0.2	33
72	Order Parameter Symmetry and Low-Temperature Asymptotics for Mesoscopically Nonhomogeneous Superconductors. , 2000, , 193-212.		0

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73	Nonstationary Josephson effect for superconductors with spin-density waves. Physical Review B, 1999, 60, 14897-14906.	1.1	6
74	Influence of order-parameter nonhomogeneities on low-temperature properties of superconductors. Physical Review B, 1999, 60, 7465-7472.	1.1	16
75	Tunnel currents between partially-gapped superconductors with charge-density waves. Physica B: Condensed Matter, 1999, 259-261, 454-455.	1.3	2
76	Nonstationary Josephson, interference and quasiparticle currents for superconductors with spin density waves. Physica C: Superconductivity and Its Applications, 1999, 317-318, 486-488.	0.6	0
77	Josephson and quasiparticle currents in tunneling junctions between partially dielectrized (partially) Tj ETQq1 1 0.784314 rgBT /Overlock	0.2	1
78	Importance of the Plasmon Damping for the Dynamical Image Forces. Physica Status Solidi (B): Basic Research, 1999, 214, 29-33.	0.7	2
79	Power-law low-temperature asymptotics for spatially nonhomogeneous s-wave superconductors. Low Temperature Physics, 1999, 25, 503-508.	0.2	4
80	Symmetry breaking in tunnel junctions between partially dielectrized metals with charge or spin density waves. Physics of the Solid State, 1998, 40, 351-353.	0.2	1
81	Non-stationary Josephson effect for superconductors with charge-density waves: NbSe 3. Europhysics Letters, 1997, 38, 371-376.	0.7	10
82	Josephson tunnelling involving superconductors with charge-density waves. Journal of Physics Condensed Matter, 1997, 9, 3901-3920.	0.7	32
83	Asymmetrical tunneling between similar metallic junctions with charge-density or spin-density waves: The case of broken symmetry. Physical Review B, 1997, 56, 7785-7788.	1.1	26
84	Nonstationary Josephson effect for superconductors with charge-density waves. Physical Review B, 1997, 55, 1081-1099.	1.1	33
85	Josephson and single-particle currents between partially dielectricized superconductors with charge-density waves. Physics of the Solid State, 1997, 39, 889-896.	0.2	0
86	Effects of nonadiabaticity and finite screening length in electron tunneling across narrow interelectrode gaps. Technical Physics, 1997, 42, 102-104.	0.2	0
87	Josephson and quasiparticle currents for partially-dielectrized superconductors with charge-density waves. European Physical Journal D, 1996, 46, 577-578.	0.4	0
88	Inelastic scattering and superconducting gap in high-T c oxides. European Physical Journal D, 1996, 46, 921-922.	0.4	0
89	Image forces in tunnel and point-contact spectroscopy. Physica B: Condensed Matter, 1996, 218, 280-282.	1.3	1
90	Influence of inelastic quasiparticle scattering on thermodynamic and transport properties of high-Tc oxides. Physica C: Superconductivity and Its Applications, 1996, 258, 236-252.	0.6	7

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91	Tunnel characteristics of partially gapped non-superconducting metals with charge- or spin-density waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 223, 221-226.	0.9	4
92	NONADIABATIC TUNNELING AND FINITE SCREENING LENGTH EFFECTS IN THREE-LAYER STRUCTURES. Surface Review and Letters, 1995, 02, 711-715.	0.5	1
93	Tunneling spectroscopy of normal metals with charge-density or spin-density waves. Physical Review B, 1995, 52, 7437-7447.	1.1	37
94	The influence of the temperature-dependent inelastic electron scattering on the thermodynamical and transport properties of superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2385-2386.	0.6	1
95	Temperature-dependent inelastic electron scattering and superconducting state properties. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 190, 191-195.	0.9	4
96	Josephson Tunneling Critical Current between Superconductors with Chargeâ€•or Spinâ€Density Waves. Physica Status Solidi (B): Basic Research, 1990, 161, 293-302.	0.7	19
97	Influence of the electron spectrum dielectrization on the critical current of the Josephson medium BaPb1â^'xBixO3. Physica B: Condensed Matter, 1990, 165-166, 1591-1592.	1.3	0
98	Surface tension at the electrolyte solutionâ€"metal electrode interfaceâ€"III. polyvalent and non-symmetrical electrolytes. Electrochimica Acta, 1990, 35, 545-554.	2.6	13
99	Dynamical image forces in three-layer systems and field emission. Surface Science, 1987, 186, 523-549.	0.8	25
100	Dynamical image forces in three-layer systems and field emission. Surface Science Letters, 1987, 186, A294.	0.1	0
101	Surface tension at the electrolyte solution/metal electrode interfaceâ€"II. The spatial dispersion of polar solvent dielectric permittivity. Electrochimica Acta, 1986, 31, 777-782.	2.6	8
102	Electron potential energy near the ferromagnetic metalâ€“ vacuum interface. Physica Status Solidi (B): Basic Research, 1986, 133, 135-142.	0.7	4
103	Surface tension at the interface between electrolyte solution and metal (semiconductor) electrode. Spatial dispersion effects. Electrochimica Acta, 1983, 28, 1771-1776.	2.6	10
104	Influence of Semiconductor Dielectric Function Spatial Dispersion on Charge Electrostatic Energy near the Semiconductor/Vacuum Interface and Field Emission Current. Physica Status Solidi (B): Basic Research, 1982, 110, 407-416.	0.7	20
105	Measurements of Stationary Josephson Current between High- Tc Oxides as a Tool to Detect Charge Density Waves. , 0, , .		0