Serghej L Prischepa

List of Publications by Year
in descending order

126	1,168	471061	525886
papers	citations	17 h-index	27 g-index

127	127	127	951
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Long-Range Exchange Interaction Between Ferromagnetic Nanoparticles Embedded in Carbon Nanotubes. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	0
2	Indirect Exchange Coupling in Carbon Nanotubes. Doklady BGUIR, 2022, 20, 13-20.	0.1	0
3	Superconducting Order Parameter Nucleation and Critical Currents in the Presence of Weak Stray Fields in Superconductor/Insulator/Ferromagnet Hybrids. Coatings, 2021, 11, 507.	1.2	2
4	Electrical conductivity and magnetoresistance in twisted graphene electrochemically decorated with Co particles. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113790.	1.3	11
5	Low temperature injected-caused charge carrier instability in n-type silicon below insulator-to-metal transition. Journal of Physics Condensed Matter, 2020, 32, 225702.	0.7	0
6	Delocalization of electron states in n-Si at low temperatures. Doklady BGUIR, 2020, 18, 28-35.	0.1	0
7	Anisotropy of Assemblies of Densely Packed Co-Alloy Nanoparticles Embedded in Carbon Nanotubes. IEEE Magnetics Letters, 2019, 10, 1-5.	0.6	2
8	2D Carbon Material/Silicon Heterojunctions for Fast Response Self-Powered Photodetector. International Journal of Nanoscience, 2019, 18, 1940088.	0.4	3
9	Femtosecond light pulse response of photodetectors based on Graphene/n-Si heterojunctions. Carbon, 2019, 152, 643-651.	5.4	9
10	Magnetic Relaxation Experiments in CNT-Based Magnetic Nanocomposite. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3329-3337.	0.8	4
11	Direct patterning of nitrogen-doped chemical vapor deposited graphene-based microstructures for charge carrier measurements employing femtosecond laser ablation. Journal Physics D: Applied Physics, 2019, 52, 30LT01.	1.3	6
12	Self-Assembled Magnetically Isolated Co Nanoparticles Embedded Inside Carbon Nanotubes. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	5
13	Influence of deposition of cobalt particles on quantum corrections to Droude conductivity in twisted CVD graphene. Izvestiya Vysshikh Uchebnykh Zavedenii Materialy Elektronnoi Tekhniki = Materials of Electronics Engineering, 2019, 22, 73-83.	0.1	0
14	CVD graphene sheets electrochemically decorated with â€œcore-shellâ€•Co/CoO nanoparticles. Applied Surface Science, 2018, 440, 1252-1260.	3.1	22
15	Possibility of Determining the Graphene Doping Level Using Raman Spectra. Journal of Applied Spectroscopy, 2018, 84, 995-998.	0.3	10
16	Impact of aligned carbon nanotubes array on the magnetostatic isolation of closely packed ferromagnetic nanoparticles. Carbon, 2018, 139, 1104-1116.	5.4	7
17	Porous Silicon Templates for Superconducting Devices. , 2018, , 1133-1147.		0
18	Impact of CNT medium on the interaction between ferromagnetic nanoparticles. Europhysics Letters, 2017, 117, 27007.	0.7	8

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19	NbN superconducting nanonetwork fabricated using porous silicon templates and high-resolution electron beam lithography. Nanotechnology, 2017, 28, 465301.	1.3	5
20	Nitrogen-doped twisted graphene grown on copper by atmospheric pressure CVD from a decane precursor. Beilstein Journal of Nanotechnology, 2017, 8, 145-158.	1.5	25
21	Low Temperature Conductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:math>-Type Noncompensated Silicon below Insulator-Metal Transition. Advances in Condensed Matter Physics, 2017, 2017, 1-12.	0.4	4
22	Properties of Ni and Niâ€“Fe nanowires electrochemically deposited into a porous alumina template. Beilstein Journal of Nanotechnology, 2016, 7, 1709-1717.	1.5	17
23	Interaction of electromagnetic radiation with magnetically functionalized CNT nanocomposite in the subterahertz frequency range. Semiconductors, 2016, 50, 1702-1707.	0.2	1
24	Negative differential resistance in n-type noncompensated silicon at low temperature. Applied Physics Letters, 2016, 109, .	1.5	9
25	Influence of Magnetic Losses on Microwave Absorption by Carbon-Nanotube Nanocomposites with a Low Concentration of Ferromagnetic Nanoparticles. Journal of Applied Spectroscopy, 2016, 83, 225-228.	0.3	3
26	Transport properties in aggregates of Nb nanowires templated by carbon nanotube films. Carbon, 2016, 105, 544-550.	5.4	8
27	Change of the topology of a superconducting thin film electromagnetically coupled with an array of ferromagnetic nanowires. Superconductor Science and Technology, 2016, 29, 015011.	1.8	8
28	Carrier transport in porous-Si/Ni/c-Si nanostructures. Journal of Alloys and Compounds, 2016, 657, 21-26.	2.8	13
29	Porous Silicon Templates for Superconducting Devices. , 2016, , 1-15.		1
30	Interaction of electromagnetic radiation in the 20â€“200 GHz frequency range with arrays of carbon nanotubes with ferromagnetic nanoparticles. Beilstein Journal of Nanotechnology, 2015, 6, 1056-1064.	1.5	4
31	Low-temperature conductivity of silicon doped with antimony. Semiconductors, 2015, 49, 705-711.	0.2	2
32	Manifestation of coherent magnetic anisotropy in a carbon nanotube matrix with low ferromagnetic nanoparticle content. New Journal of Physics, 2015, 17, 023073.	1.2	16
33	Micro Raman Investigation of Graphene Synthesized by Atmospheric Pressure CVD on Copper Foil from Decane. Physics Procedia, 2015, 72, 450-454.	1.2	12
34	Superconducting nanowire quantum interference device based on Nb ultrathin films deposited on self-assembled porous Si templates. Nanotechnology, 2014, 25, 425205.	1.3	7
35	Exchange coupling and magnetic anisotropy for different concentration of iron based nanoparticles in aligned carbon nanotube arrays. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1074-1079.	0.8	7
36	Magnetic memory effect in type-II superconductor/ferromagnet bilayers. Superconductor Science and Technology, 2014, 27, 055024.	1.8	2

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37	Interplay between exchange interaction and magnetic anisotropy for iron based nanoparticles in aligned carbon nanotube arrays. Carbon, 2014, 68, 337-345.	5.4	27
38	Conductance spectroscopy in ferromagnetâ€“superconductor hybrids. Superconductor Science and Technology, 2014, 27, 075008.	1.8	4
39	Interface Properties of Superconductor-Based Heterostructures from Critical Temperature Measurements. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2861-2862.	0.8	4
40	Comparative study of initial stages of copper immersion deposition on bulk and porous silicon. Nanoscale Research Letters, 2013, 8, 85.	3.1	20
41	Structural and magnetic properties of Ni nanowires grown in mesoporous silicon templates. Thin Solid Films, 2013, 543, 133-137.	0.8	24
42	Structural and magnetic investigation of single wall carbon nanotube films with iron based nanoparticles inclusions synthesized by CVD technique from ferrocene/ethanol solution. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1176-1179.	0.8	1
43	Vortex matching effects in Nb thin films due to Ni nanopillars embedded in anodic aluminum oxide substrates. Superconductor Science and Technology, 2013, 26, 035001.	1.8	4
44	Nonlinear current-voltage characteristics due to quantum tunneling of phase slips in superconducting Nb nanowire networks. Applied Physics Letters, 2013, 103, .	1.5	18
45	Quantum phase slips in superconducting Nb nanowire networks deposited on self-assembled Si templates. Applied Physics Letters, 2012, 101, .	1.5	22
46	Electrochemical Deposition and Characterization of Ni in Mesoporous Silicon. Journal of the Electrochemical Society, 2012, 159, D623-D627.	1.3	27
47	Electrochemical Deposition of Ni into Mesoporous Silicon. ECS Transactions, 2012, 41, 111-118.	0.3	14
48	Microwave absorption in nanocomposite material of magnetically functionalized carbon nanotubes. Journal of Applied Physics, 2012, 112, .	1.1	28
49	1D superconductivity in porous Nb ultrathin films. Physica C: Superconductivity and Its Applications, 2012, 479, 167-169.	0.6	1
50	Effect of the variation of the exchange energy on the superconducting critical temperature of S/F/S trilayers. European Physical Journal B, 2011, 80, 445-449.	0.6	10
51	Asymmetry of the Pinning Force in Thin Nb Films in Parallel Magnetic Field. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1553-1557.	0.8	1
52	X-ray scattering study of interfacial roughness in Nb/PdNi multilayers. Surface Science, 2011, 605, 1791-1796.	0.8	5
53	Multiple order parameter configurations in superconductor/ferromagnet multilayers. Physical Review B, 2011, 84, .	1.1	13
54	Evaluation of the specific boundary resistance of superconducting/weakly ferromagnetic hybrids by critical temperature measurements. Journal of Applied Physics, 2011, 110, 113904.	1.1	12

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55	Two-Dimensional Regime in the Angular Dependence ofÂtheÂUpper Critical Field of Superconducting/Normal Metal Hybrids. Journal of Superconductivity and Novel Magnetism, 2010, 23, 329-332.	0.8	0
56	Transport properties of nanoperforated Nb thin films. Physica C: Superconductivity and Its Applications, 2010, 470, 957-959.	0.6	1
57	Asymmetry of the critical current and peak effect in superconducting multilayers. Superconductor Science and Technology, 2010, 23, 065019.	1.8	2
58	Proximity effect and interface transparency in Nb/Cu multilayers. Journal of Applied Physics, 2009, 106, 113917.	1.1	18
59	Nonmonotonic behavior of the anisotropy coefficient in superconductor-ferromagnet-superconductor trilayers. Physical Review B, 2009, 80, .	1.1	18
60	Upper critical magnetic fields in superconductor/ferromagnet hybrids. Journal of Physics Condensed Matter, 2009, 21, 254201.	0.7	0
61	Evidence of fractional matching states in nanoperforated Nb thin film grown on porous silicon. Europhysics Letters, 2009, 88, 57006.	0.7	9
62	Resistive Transitions in S/F/S Trilayers. Solid State Phenomena, 2009, 152-153, 478-481.	0.3	2
63	Role of the external surfaces on the superconducting properties of superconductor/normal metal trilayers. Superlattices and Microstructures, 2008, 43, 86-92.	1.4	7
64	Resistive transitions in Nb/Cu0.41Ni0.59/Nb trilayers. JETP Letters, 2008, 88, 375-379.	0.4	10
65	Superconducting properties of Nb thin films deposited on porous silicon templates. Journal of Applied Physics, 2008, 104, 083917.	1.1	25
66	Upper critical fields and interface transparency in superconductor/ferromagnet bilayers. Physical Review B, 2007, 76, .	1.1	24
67	STRUCTURE AND PROPERTIES OF SUPERCONDUCTOR/FERROMAGNET HYBRIDS. , 2007, , .		0
68	PROXIMITY EFFECT AND CRITICAL MAGNETIC FIELDS IN Nb/CuNi/Nb STRUCTURES. , 2007, , .		0
69	II.2 Cuprate and other unconventional superconductors. , 2007, , 303-315.		0
70	Angular Effects of the Critical Current in Nb/Pd Multilayer Structures. AIP Conference Proceedings, 2006, , .	0.3	0
71	Transport properties of Nb/PdNi bilayers. Journal of Physics and Chemistry of Solids, 2006, 67, 412-415.	1.9	1
72	Critical temperature and interface transparency of N/S/N triple layers: theory and experiment. European Physical Journal B, 2006, 52, 9-14.	0.6	18

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73	Thickness dependence of pinning mechanisms in granular Nb thin films. Superconductor Science and Technology, 2006, 19, 1124-1129.	1.8	10
74	Angular effects of the critical current inNbâˆ•Pdmultilayers. Physical Review B, 2006, 74, .	1.1	0
75	Interface transparency and proximity effect in Nb/Cu triple layers realized by sputtering and molecular beam epitaxy. Superconductor Science and Technology, 2005, 18, 1-8.	1.8	88
76	The influence of a submicrometre antidot array on the vortex topology and the pinning mechanism in layered superconductors. Superconductor Science and Technology, 2005, 18, 152-157.	1.8	3
77	Superconducting proximity effect and interface transparency inNbâˆ•PdNibilayers. Physical Review B, 2005, 72, .	1.1	57
78	Effect of geometrical symmetry on the angular dependence of the critical magnetic field in superconductor/normal metal multilayers. Physical Review B, 2005, 72, .	1.1	7
79	MULTILAYER AGAINST MONOLAYER BEHAVIOR IN PROXIMITY COUPLED SUPERCONDUCTING NANOSTRUCTURES. , 2005, , .		0
80	Interface transparency of Nb/Pd layered systems. European Physical Journal B, 2004, 38, 59-64.	0.6	26
81	Nucleation of superconductivity in finite metallic multilayers: Effect of the symmetry. European Physical Journal B, 2004, 41, 439-444.	0.6	8
82	Proximity effect in superconductor/highly paramagnetic Nb/Pd systems. Physica C: Superconductivity and Its Applications, 2004, 404, 95-98.	0.6	9
83	Current-dependent crossover in the flux dynamics of MgB 2 thin films. Europhysics Letters, 2004, 65, 540-545.	0.7	0
84	Upper Critical Fields of Nb/Pd Multilayers. Journal of Low Temperature Physics, 2003, 130, 509-527.	0.6	14
85	Role of boundary conditions in improving the working characteristics of superconductor-based nanostructures. Microelectronic Engineering, 2003, 69, 346-349.	1.1	0
86	Critical currents ofMgB2thin films depositedin situby sputtering. Physical Review B, 2003, 67, .	1.1	41
87	Effect of symmetry on the resistive characteristics of proximity coupled metallic multilayers. Physical Review B, 2003, 68, .	1.1	8
88	HIGH QUALITY FULLY IN-SITU MgB2 THIN FILMS OBTAINED BY DC MAGNETRON SPUTTERING. International Journal of Modern Physics B, 2003, 17, 779-784.	1.0	3
89	Evidence of vortex kink formation in antidotted layered superconductors. Physical Review B, 2002, 65, .	1.1	1
90	Increase of the critical current at the liquid-helium lambda point in superconducting perforated multilayers. Europhysics Letters, 2002, 60, 295-301.	0.7	1

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91	Melting of the vortex lattice in perforated Nb/CuMn multilayers. Physica C: Superconductivity and Its Applications, 2002, 369, 254-257.	0.6	0
92	Scaling of Hc2âŠ¥(T) in Nb/CuMn Multilayers. Journal of Superconductivity and Novel Magnetism, 2001, 14, 411-414.	0.5	1
93	The resistive anomaly and upward curvature of the perpendicular upper critical field in non-homogeneous superconductors. Journal of Physics Condensed Matter, 2001, 13, 3215-3221.	0.7	8
94	Pinning force and peak effect in superconductor/normal-metal multilayers. Physical Review B, 2001, 63, .	1.1	3
95	Vortex lattice melting in perforated Nb/(Cu-Mn) multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 875-882.	0.6	2
96	Resistive transition and perpendicular critical magnetic field in perforated Nb/CuMn multilayers. Physica B: Condensed Matter, 2000, 284-288, 618-619.	1.3	2
97	Anisotropy and transport properties of (Bi2Sr2CuO6+Ïƒ)m/(CauCuo2)n multilayers obtained by molecular beam epitaxy. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1903-1904.	0.6	0
98	Transition from thermally activated to regular flow of magnetic flux vortices in HTSC. Physics of the Solid State, 2000, 42, 1596-1601.	0.2	0
99	Upper Critical Field and Irreversibility Line in Bi2Sr2CuO6+Î´/CaCuO2 Superconducting Superlattices Obtained by MBE. International Journal of Modern Physics B, 2000, 14, 2767-2772.	1.0	1
100	Vortex lattice melting in perforated Nb/(Cu-Mn) multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 875-882.	0.6	1
101	Irreversibility line in Nb/CuMn multilayers with a regular array of antidots. Physical Review B, 2000, 62, 14461-14468.	1.1	6
102	Crossover from thermally activated to steady flow in the vortex dynamics of Bi2Sr2CaCu2O8+xthin films. Superconductor Science and Technology, 1999, 12, 533-537.	1.8	4
103	Bi-Based Superconducting Multilayers Obtained by Molecular Beam Epitaxy. International Journal of Modern Physics B, 1999, 13, 991-996.	1.0	0
104	Properties of Bi2+xSr2â^'xCuO6+Î´ thin films obtained by MBE. Thin Solid Films, 1999, 353, 227-232.	0.8	6
105	Bi2Sr2CuO6+Î´/ACuO2 (A=Ca,Sr) superconducting multilayers obtained by Molecular Beam Epitaxy. Physica C: Superconductivity and Its Applications, 1999, 316, 215-223.	0.6	7
106	Upper critical magnetic field and vortex pinning in superconducting/spin glass multilayers. Physica C: Superconductivity and Its Applications, 1999, 312, 112-120.	0.6	11
107	Superconductivity in Bi/sub 2/Sr/sub 2/CuO/sub 6+Î´//(Sr,Ca)CuO/sub 2/ multilayers obtained by molecular beam epitaxy. IEEE Transactions on Applied Superconductivity, 1999, 9, 2006-2009.	1.1	1
108	Critical-temperature-oscillations dependence on Mn concentration in superconducting Nb/CuMn multilayers. Physical Review B, 1998, 57, 14411-14415.	1.1	14

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109	Angular dependence of the upper critical field in Nb/CuMn multilayers. Physical Review B, 1998, 57, 6056-6060.	1.1	17
110	Vortex properties in superconducting Nb/Pd multilayers. Physical Review B, 1998, 57, 7922-7929.	1.1	21
111	Disorder and vortex dynamics in high- superconductors. Superconductor Science and Technology, 1997, 10, 119-122.	1.8	7
112	Current dependence of pinning energy and flux dynamics in high temperature superconductors. IEEE Transactions on Applied Superconductivity, 1997, 7, 1173-1176.	1.1	1
113	Flux creep-flux flow crossover in disordered superconductors. Physica C: Superconductivity and Its Applications, 1997, 275, 211-219.	0.6	5
114	Scaling of Iâ€“V curves and flux creep in high-Tc superconductors. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2019-2020.	0.6	2
115	Superconducting-critical-temperature oscillations in Nb/CuMn multilayers. Physical Review B, 1996, 53, 14040-14042.	1.1	73
116	Quantum vortex melting in Nb/CuMn multilayers. Physical Review B, 1996, 53, 1087-1090.	1.1	15
117	Temperature scaling of the flux pinning force in Bi2Sr2Ca1Cu2O8+x thin films. Journal of Applied Physics, 1996, 79, 4228.	1.1	10
118	Magnetic field depedennce of pinning mechanisms in Bi2Sr2Ca1Cu2O8+x thin films. Physica C: Superconductivity and Its Applications, 1995, 255, 239-246.	0.6	28
119	Nb liftâ€off procedure for micropatterning Bi2Sr2Ca1Cu2O8+xthin films. Journal of Applied Physics, 1995, 77, 2196-2198.	1.1	2
120	Superconducting properties of Nbâ€CuMn multilayers. Journal of Applied Physics, 1995, 77, 2081-2086.	1.1	14
121	Superconducting BSCCO thin films obtained by MBE. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1961-1965.	0.4	1
122	Porous anodic Al2O3 ayers for superconducting films. Cryogenics, 1994, 34, 851-853.	0.9	8
123	Superconducting and structural properties of BSCCO thin films by molecular beam epitaxy. Cryogenics, 1994, 34, 859-862.	0.9	12
124	Superconducting Critical Temperature and Magnetic Inhomogeneities in Superconductor/Ferromagnet/Superconductor Trilayers. Solid State Phenomena, 0, 190, 409-412.	0.3	0
125	Nanostructured Metal Films Formed onto Porous Silicon Template. Journal of Nano Research, 0, 39, 235-255.	0.8	3
126	Superconducting critical temperature and softening of the phonon spectrum in ultrathin nb- and nbn/graphene hybrids. Superconductor Science and Technology, 0, , .	1.8	3