Andrey A Ivanov

List of Publications by Year
in descending order

117	587	840776 11	839539 18
papers	citations	h-index	g-index

118	118	118	407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Smooth homogeneous HTSC thin films produced by laser deposition with flux separation. Physica C: Superconductivity and Its Applications, 1991, 180, 69-72.	1.2	52
2	Formation and evolution of crystal and local structures in nanostructured Ln2Ti2O7 (Lnâ€¯=â€¯Gdâ€“Dy). Journal of Alloys and Compounds, 2018, 746, 377-390.	5.5	28
3	Quasi-two-dimensional transport properties of the layered superconductor Nd2â^'xCe x CuO4+Î´. Journal of Experimental and Theoretical Physics, 2007, 105, 626-635.	0.9	24
4	Comparative analysis of long- and short-range structures features in titanates Ln2Ti2O7 and zirconates Ln2Zr2O7 (Ln = Gd, Tb, Dy) upon the crystallization process. Journal of Physics and Chemistry of Solids, 2019, 130, 144-153.	4.0	23
5	Critical state in a circular two-dimensional superconductor and magnetization of thinNd1.85Ce0.15CuO4â^'Î´andYBa2Cu3O7â^'Î´films in a transverse field. Physical Review B, 1995, 52, 9637-9646.	3.2	19
6	Doping effect on the anomalous behavior of the Hall effect in electron-doped superconductor Nd2â^'xCexCuO4+Î´. Physica C: Superconductivity and Its Applications, 2012, 483, 113-118.	1.2	16
7	The interplay of superconductivity and localization in Nd2â^'xCexCuO4+Î´ single crystal films. Physica C: Superconductivity and Its Applications, 2002, 383, 207-213.	1.2	15
8	Upper critical field in electron-doped cuprate superconductor Nd2â^'xCexCuO4+Î´: Two-gap model. Physica C: Superconductivity and Its Applications, 2013, 488, 25-29.	1.2	15
9	The influence of the native BaAl2O4 boundary layer on microstructure and properties of thin films grown on sapphire. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 15, 25-31.	3.5	14
10	Transverse field penetration paradox in thin films and magnetic properties of Nd1.85Ce0.15CuO4â^'x epitaxial films. Physica C: Superconductivity and Its Applications, 1991, 183, 135-142.	1.2	13
11	Hall effect in the pinned and sliding charge density wave state of NbSe₃. Journal of Physics Condensed Matter, 2009, 21, 435601.	1.8	13
12	Local electronic structure rearrangements and strong anharmonicity in YH3 under pressures up to 180â€‰GPa. Nature Communications, 2021, 12, 1765.	12.8	12
13	Low Temperature Anharmonicity and Superconductivity in Cuprates. Journal of Superconductivity and Novel Magnetism, 2014, 27, 925-928.	1.8	11
14	Andreev reflection in Au-bilayer: Ag-YBa2Cu3O7â^'Î´ (Î´=0, 0.3) points contacts. Physica C: Superconductivity and Its Applications, 1993, 213, 490-494.	1.2	10
15	Feâ€“As Bond Fluctuations in a Double-Well Potential in LaFeAsO. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3035-3039.	1.8	10
16	X-ray photoelectron spectroscopy studies of electronic structure of Nd2â^'xCexCuO4â^'y and YBa2Cu3O7â^'y epitaxial film surfaces and resistive switchings in high temperature superconductor-based heterostructures. Materials Letters, 2017, 203, 97-99.	2.6	9
17	Anisotropic temperature dependence of normal state resistivity in underdoped region of a layered electron-doped superconductor Nd2â€“xCexCuO4. Low Temperature Physics, 2019, 45, 217-223.	0.6	9
18	Symmetry of the free states of an electron-dopedNd2â^'xCexCuO4â^'Î´superconductor determined by x-ray-absorption spectroscopy. Physical Review B, 1998, 57, 8671-8679.	3.2	8

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19	Effect of the nonstoichiometric disorder on the temperature dependence of the upper critical field in Nd2â^'x Ce x CuO4+Î´ electron superconductors. JETP Letters, 2008, 88, 123-126.	1.4	8
20	Correlation of the local and the macroscopic properties of high-temperature superconductors. Zeitschrift FÃ¼r Kristallographie, 2010, 225, .	1.1	8
21	Role of the perovskite-like lattice in the high-temperature superconductor mechanism: EXAFS data analysis. Journal of Surface Investigation, 2013, 7, 407-421.	0.5	8
22	Resistivity tensor correlations in the mixed state of electron-doped superconductor Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ce x CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo	1.2	8
23	Local Noncentrosymmetric Structure of Bi2Sr2CaCu2O8+y by X-ray Magnetic Circular Dichroism at Cu K-Edge XANES. Journal of Superconductivity and Novel Magnetism, 2018, 31, 663-670.	1.8	8
24	A XAFS investigation of amorphous-to-crystalline and fluorite-to-pyrochlore phase transitions in Ln2M2O7 (Lnâ€¯=â€¯Gd, Tb, Dy; Mâ€¯=â€¯Ti, Zr). Radiation Physics and Chemistry, 2020, 175, 108469.	2.8	8
25	Rearrangement in the local, electronic and crystal structure of europium titanates under reduction and oxidation. Journal of Alloys and Compounds, 2020, 831, 154752.	5.5	8
26	Anisotropic low-temperature in-plane magnetoresistance in electron doped Nd2â^'x Ce x CuO4+Î´. JETP Letters, 2005, 81, 394-399.	1.4	7
27	Properties of percolation channels in planar memristive structures based on epitaxial films of a YBa₂Cu₃O_{7â^'Î´} high temperature superconductor. Superconductor Science and Technology, 2019, 32, 015003.	3.5	7
28	Green Lithography for Delicate Materials. Advanced Functional Materials, 2021, 31, 2101533.	14.9	7
29	Effect of disorder on the transport properties of the high-T c superconductor Nd2â^' x CexCuO4+Î´. Journal of Experimental and Theoretical Physics, 2001, 92, 1084-1089.	0.9	6
30	Superconductivity and Localization in Nd2-xCexCuO4+Î´. Modern Physics Letters B, 2003, 17, 701-707.	1.9	6
31	Effects of d-wave pairing in n-type high-temperature superconductors with anisotropic impurity scattering. Physics of the Solid State, 2009, 51, 2229-2234.	0.6	6
32	Double-well potential for oxygen ion vibrations in Nd_{2â^'x}Ce_xCuO_{4â^'Î´}. Journal of Physics: Conference Series, 2009, 190, 012093.	0.4	6
33	Oxygen doping of HTSC and resistive switching in HTSC-based heterostructures. SpringerPlus, 2013, 2, 384.	1.2	6
34	Nd 2 â^' x Ce x CuO 4 â^' y/ Nd 2 â^' x Ce x O y boundary and resistive switchings in mesoscopic structures on base of epitaxial Nd 1.86 Ce 0.14 CuO 4 â^' Ñƒ films. Physica C: Superconductivity and Its Applications, 2016, 527, 41-45.	1.2	6
35	Incoherent interlayer transport in single-crystal films of Nd2-xCexCuO4/SrTiO3. Journal of Physics: Conference Series, 2018, 993, 012002.	0.4	6
36	Local Disorder in Ln2Ti2O7 (Ln = Gd, Tb, Dy) Pyrochlores. JETP Letters, 2019, 109, 529-535.	1.4	6

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37	Normal state interlayer conductivity in epitaxial Nd2â€“x Ce x CuO4 films deposited on SrTiO3 (110) single crystal substrates. Materials Research Express, 2019, 6, 096005.	1.6	6
38	The local structure transformation in Nd1.85Ce0.15CuO4 films irradiated by He+ ions: polarized EXAFS study. Physica C: Superconductivity and Its Applications, 1994, 234, 68-76.	1.2	5
39	<title>Noise of high-Tc superconducting bolometers</title>. , 1998, 3287, 288.		5
40	Effect of nonstoichiometric disorder on the transport properties of Nd2â^'xCexCuO4+Î´ single crystal films. Physica C: Superconductivity and Its Applications, 2004, 408-410, 372-373.	1.2	5
41	On the nature of the anisotropy of the resistivity of Nd2â^'xCexCuO4+Î´ with different cerium and oxygen concentrations. Low Temperature Physics, 2004, 30, 885-890.	0.6	5
42	Realization of rectifying and resistive switching behaviors of mesoscopic niobium oxide-based structures. Materials Letters, 2014, 136, 404-406.	2.6	5
43	Upper Critical Field in Electron-Doped Superconductor with Nonstoichiometric Disorder near Antiferromagnetic-Superconducting Phase Boundary. Solid State Phenomena, 2014, 215, 77-82.	0.3	5
44	Magnetization of Crystalline and Amorphous Phases of R2Ti2O7 and R2Zr2O7 (R = Gd, Dy, Tb). Journal of Superconductivity and Novel Magnetism, 2020, 33, 2395-2404.	1.8	5
45	Polarized K-Cu XANES of epitaxial Nd1.85Ce0.15CuO4 thin films irradiated by He + ions. Solid State Communications, 1992, 84, 319-321.	1.9	4
46	Magnetic flux creep in HTSC films. Bulletin of the Lebedev Physics Institute, 2014, 41, 215-217.	0.6	4
47	Temperature-Dependent As K-Edge EXAFS Studies of LaFe 1â^'x Co x AsO (x = 0.0 and 0.11) Single Crystals. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3041-3047.	1.8	4
48	Application of Laser Design of Amorphous Feco-Based Alloys for the Formation of Amorphous-Crystalline Composites. Russian Physics Journal, 2016, 58, 1331-1338.	0.4	4
49	Temperature dependence of the critical current of YBa2Cu3O7â^'Î´ films. JETP Letters, 2017, 106, 324-329.	1.4	4
50	Low-temperature anomalies of EXAFS at theK-edge of As in superconducting LaFe_{0.89}Co_{0.11}AsO. Journal of Physics: Conference Series, 2017, 941, 012058.	0.4	4
51	Anisotropy of the Hall Effect in a Quasi-Two-Dimensional Electron-Doped Nd2Ââ€“ÂxCexCuO4Â+ÂÎ´ Superconductor. Physics of the Solid State, 2018, 60, 2162-2165.	0.6	4
52	Fabrication and Electrical Characteristics of Asymmetric Rings Made of HTS YBCO Films Obtained by Pulsed Laser Deposition. Russian Microelectronics, 2019, 48, 119-126.	0.5	4
53	Memristive Properties of Oxide-based High-Temperature Superconductors. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2279-2286.	1.8	4
54	Multiscale study on the formation and evolution of the crystal and local structures in lanthanide tungstates Ln2(WO4)3. Journal of Alloys and Compounds, 2022, 910, 164922.	5.5	4

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55	Polarized XAS spectroscopy of HTSC thin films. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 359, 236-239.	1.6	3
56	The local structure of the CuO2plane in Nd2â^'xCexCuO4â^'Î´: an X-ray absorption study. Journal of Synchrotron Radiation, 1999, 6, 767-769.	2.4	3
57	Quantum Corrections to the Conductivity of a Natural Nd[sub 2 â€“][sub x]Ce[sub x]CuO[sub 4] Superlattice. Physics of the Solid State, 2005, 47, 1972.	0.6	3
58	Studying the effect of oxygen content on the electron structure of Nd1.85Ce0.15CuO4 by means of photoelectron spectromicroscopy. Journal of Experimental and Theoretical Physics, 2007, 105, 241-245.	0.9	3
59	Hall effect and negative magnetoresistance in thin crystals of NbSe3. European Physical Journal B, 2008, 63, 199-204.	1.5	3
60	XMCD study of the local magnetic and structural properties of microcrystalline NdFeB-based alloys. JETP Letters, 2017, 105, 38-42.	1.4	3
61	Correlation between the Hall Resistance and Magnetoresistance in the Mixed State of an Nd2 â^' xCe x CuO4 + Î´ Electronic Superconductor. Physics of Metals and Metallography, 2017, 118, 1184-1191.	1.0	3
62	Magnetic susceptibility of pyrochlores R2Ti2O7: Râ€¯=â€¯Gd, Dy, Tb. Journal of Magnetism and Magnetic Materials, 2020, 500, 166326.	2.3	3
63	Magnetic susceptibility anisotropy of electron overdoped high temperature superconductor Nd2-Ce CuO4. Journal of Physics and Chemistry of Solids, 2021, 148, 109770.	4.0	3
64	Pulsed laser modification of layered B-C and mixed BC films on sapphire substrate. Diamond and Related Materials, 2021, 114, 108336.	3.9	3
65	Lower critical in epitaxial (001)-oriented films of Nd1.85Ce0.15CuO4 and YBa2cu3O7-Â° measured in a transverse field. Physica B: Condensed Matter, 1994, 194-196, 2327-2328.	2.7	2
66	Effect of Nonstoichiometric Disorder on the Upper Critical Field in Electron Doped Nd2â^'x Ce x CuO4+Î´ Single Crystals. Journal of Superconductivity and Novel Magnetism, 2009, 22, 21-24.	1.8	2
67	Resistive switching effect in thin-film heterojunctions based on electron-doped Nd2 â^' x Ce x CuO4 â^' y superconductor. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 605-608.	0.6	2
68	Estimating the coherence length in the electron-doped superconductor Nd2â^'xCexCuO4+Î´. Low Temperature Physics, 2011, 37, 293-295.	0.6	2
69	Magnetoresistance and hall effect in electron-doped superconductor Nd2 â^' x Ce x CuO4+Î´ with different degrees of nonstoichiometric disorder: A two-band model. Physics of Metals and Metallography, 2014, 115, 446-456.	1.0	2
70	Doping effect on the evolution of the pairing symmetry in n-type superconductor near antiferromagnetic phase boundary. Low Temperature Physics, 2015, 41, 125-128.	0.6	2
71	Local features of the crystal structure of superconducting iron chalcogenides Fe(TeSe)1 â€“ Î´. Physics of the Solid State, 2016, 58, 447-453.	0.6	2
72	The mixed-state Hall conductivity of single-crystal films Nd2â€“xCexCuO4+Î´ (xâ€‰=â€‰0.14). Low Temperature Physics, 2017, 43, 475-477.	0.6	2

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73	Hall Resistivity Correlations in Disordered Electron-Doped $$hbox {Nd}_{2-x}hbox {Ce}_xhbox {CuO}_{4+delta }$$ Nd 2 - x. Journal of Low Temperature Physics, 2017, 187, 734-741.	1.4	2
74	Effect of Nitrogenation and Hydrogenation on the Magnetic Properties and Structure of the Sm2Fe17 Alloy: Analysis of XMCD Data. JETP Letters, 2018, 107, 228-232.	1.4	2
75	Static and dynamic effects of the resistive switchings in heterocontacts based on superconductive Nd2â^'xCexCuO4â^'y films. Microelectronic Engineering, 2018, 187-188, 116-120.	2.4	2
76	Interlayer Hall Effect in n-type doped high temperature superconductor Nd2â^'xCe CuO4+Î´. Physica C: Superconductivity and Its Applications, 2019, 566, 1353515.	1.2	2
77	Anisotropy of the critical current density in a layered electron-doped superconductor Nd2â€“xCexCuO4+Î´. Low Temperature Physics, 2019, 45, 212-216.	0.6	2
78	Application of laser radiation for creation of metamaterial based on rapidly quenched shape memory TiNiCu alloy. Journal of Physics: Conference Series, 2020, 1461, 012018.	0.4	2
79	The microstructure of YBa2Cu3O7â^'x thin films grown on sapphire. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2131-2132.	1.2	1
80	Bolometric characteristics of YBaCuO and LaSrCuO films. Cryogenics, 1992, 32, 533-536.	1.7	1
81	Magnetic behaviour of epitaxial Nd1.85Ce0.15CuO4â^'Î´ and YBa2Cu3O7â^'Î´ films including very low field region. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2851-2852.	1.2	1
82	Two-dimensional weak localization effects in high temperature superconductor Nd2â^'x CexCuO4â^'Î´. Journal of Experimental and Theoretical Physics, 1999, 89, 933-939.	0.9	1
83	Influence of the doping on anisotropy of the transport properties in layered and single crystals. Physica B: Condensed Matter, 2005, 359-361, 445-447.	2.7	1
84	Quasi-two-dimensional Transport Properties of Layered Superconductors Nd2â^'xCexCuO4+Î´ and Ca2â^'xSrxRuO4. AIP Conference Proceedings, 2006, , .	0.4	1
85	Anisotropy of transport properties of layered superconductors Nd2â^' x Ce x CuO4 + Î´ and Ca2 â^' x Sr x RuO4. Physics of Metals and Metallography, 2007, 104, 67-80.	1.0	1
86	Local dynamic deformation of the superconducting CuO2 plane in the Nd2 â^' x Ce x CuO4 + Î´ compound. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1132-1134.	0.6	1
87	Hall effect in pinned and sliding states of. Physica B: Condensed Matter, 2009, 404, 426-429.	2.7	1
88	Non linear transport properties of an insulating YBCO nano-bridge. European Physical Journal B, 2010, 73, 361-365.	1.5	1
89	Anomalous Hall effect in electron-doped Nd2â^'xCexCuO4+Î´ superconductor with nonstoichiometric disorder. Low Temperature Physics, 2011, 37, 268-271.	0.6	1
90	Pairing type change upon an increase in the cerium doping level in the Nd2 â^' x Ce x CuO4 + Î´ electronic superconductor. Journal of Experimental and Theoretical Physics, 2012, 114, 496-502.	0.9	1

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91	Resistive switching and diode properties of mesoscopic niobium oxide-based structures. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 759-762.	0.6	1
92	Demagnetization Effect and Relaxation of a Magnetic Moment of YBa2Cu3O7-Î´ Film in Low Magnetic Field. Physics Procedia, 2015, 71, 401-405.	1.2	1
93	The peculiarities of local structure of YbNi₂and YbCo₂intermetallics synthesized at high pressure.. Journal of Physics: Conference Series, 2016, 747, 012028.	0.4	1
94	Modification of properties of the rapidly quenched TiNiCu alloy underlaser irradiation. Journal of Physics: Conference Series, 2016, 737, 012027.	0.4	1
95	Resistive switching in mesoscopic heterostructures based on Nd2â€“x Ce x CuO4â€“y epitaxial films. Russian Microelectronics, 2017, 46, 180-185.	0.5	1
96	Temperature dependence of critical current in YBa₂Cu₃O_{7â^'Î´}films. Journal of Physics: Conference Series, 2017, 941, 012071.	0.4	1
97	Relationship between the Surface Morphology of Thin YBa2Cu3O7Ââ€“Âx Films Obtained by Pulsed Laser Deposition and the Endset Temperature of Superconducting Transition. Physics of the Solid State, 2020, 62, 1725-1731.	0.6	1
98	Magnetic Properties of Underdoped Epitaxial Films Nd2-xCexCuO4â€‰+â€‰Î´/SrTiO3. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3487-3492.	1.8	1
99	Lateral vortex motion in highly layered electron-doped superconductor Nd2â^'xCe CuO4. Physica C: Superconductivity and Its Applications, 2020, 578, 1353738.	1.2	1
100	Vortex motion in tilted magnetic fields in highly layered electron-doped superconductor Nd2-Ce CuO4. Physica C: Superconductivity and Its Applications, 2021, 591, 1353968.	1.2	1
101	Influence of radiation defects on the energy gap in YBa2Cu3O7â^'Î´ as measured with the help of Andreev reflection. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1895-1896.	1.2	0
102	X-ray absorption study of the CuO2 plane in Nd2â^'xCexCuO4â^'Î´. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 358-363.	1.6	0
103	Noise and structural characteristics of high-T c superconductor films and the numerical simulation of bolometers based on such films. Technical Physics Letters, 2007, 33, 548-551.	0.7	0
104	Investigation of epitaxial Nd1.85Ce0.15CuO4 â^' y film surface by low energy electron diffractometry. Journal of Surface Investigation, 2008, 2, 928-930.	0.5	0
105	Effect of nonstoichiometric disorder on the Hall coefficient in electron-doped Nd2â^'Ce CuO4+ single crystal films. Physica C: Superconductivity and Its Applications, 2010, 470, S221-S222.	1.2	0
106	Magnetoresistivity and Hall Effect in Mixed and Normal States of Electron-Doped Superconductor Nd_{2-X}Ce_xCuO_{4+Î´} with Nonstoichiometric Disorder. Solid State Phenomena, 0, 168-169, 537-540.	0.3	0
107	Upper critical field in electron-Doped Nd1.86Ce0.14CuO4 superconductor. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 946-949.	0.6	0
108	Temperature Dependence of Glassy Exponent in YBa2Cu3O7-Î´ Films. Physics Procedia, 2015, 65, 113-116.	1.2	0

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109	Field Dependence of Critical Current of YBa2Cu3O7-Film in Low Magnetic Field. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	0
110	Resistive switchings and diode properties of heterostructures based on epitaxial superconducting Nd2â€“x Ce x CuO4â€“y films. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 275-277.	0.6	0
111	XMCD and TEM studies of as-cast and rapidly quenched Fe50Nd50alloys. Journal of Physics: Conference Series, 2017, 941, 012072.	0.4	0
112	Features of Pulsed Laser Annealing of BC3 Films on a Sapphire Substrate. Technical Physics Letters, 2019, 45, 446-449.	0.7	0
113	Electronic Structure of Nd1.85Ce0.15CuO4-Î¹rradiated by He+Ions : An X-Ray Absorption Study on the Cu-L3and Ce-M4,5Edges. European Physical Journal Special Topics, 1997, 7, C2-1123-C2-1124.	0.2	0
114	Noise of high-Tc superconducting films and bolometers. European Physical Journal Special Topics, 1998, 08, Pr3-293-Pr3-296.	0.2	0
115	Transport and Morphological Characteristics of Thin YBa2Cu3O7Ââ€“Âx Films Obtained by Pulsed Laser Deposition with Velocity Filtration of the Laser Erosion Plume. Physics of the Solid State, 2021, 63, 1378-1386.	0.6	0
116	The influence of BaSnO3 and BaZrO3 nanoinclusionson the critical current and local structure of HTScoated conductors. Superconductor Science and Technology, 0, , .	3.5	0
117	Features of the Phase Preferences, Long- and Short-Range Order in Ln2(WO4)3 (Ln = Gd, Dy, Ho, Yb) with Their Relation to Hydration Behavior. Crystals, 2022, 12, 892.	2.2	0