Vitaliy E Gasumyants

List of Publications by Year
in descending order

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51	461	759233 12	752698 20
papers	citations	h-index	g-index

52	52	52	331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The electron transport phenomena in Y based HTSC's and their analysis on the basis of phenomenological narrow-band theory the band structure transformation with oxygen content and substitution for Cu. Physica C: Superconductivity and Its Applications, 1995, 248, 255-275.	1.2	97
2	Resistivity and thermopower of graphene made by chemical vapor deposition technique. Journal of Applied Physics, 2013, 113, .	2.5	44
3	Scaling of the thermoelectric power in a wide temperature range inBi2Sr2Ca1â^'xNdxCu2Oy(x=0â€“0.5): Experiment and interpretation. Physical Review B, 1996, 53, 905-910.	3.2	38
4	Band spectrum transformation andTcvariation in theLa2â^'xSrxCuOysystem in the underdoped and overdoped regimes. Physical Review B, 2000, 62, 5989-5996.	3.2	22
5	Effect of praseodymium on the normal-state and superconducting properties ofRBa2Cu3Oy:â€ƒA comparative study of the role of the Pr ion onRand Ba sites. Physical Review B, 2000, 61, 12404-12411.	3.2	22
6	Anomalous Nernst effect inLa0.88MnO3. Physical Review B, 1999, 59, R9019-R9022.	3.2	21
7	The possibility of introducing additional states in the conduction band of YBa2Cu3Oy by Ca doping. Physics of the Solid State, 1998, 40, 1943-1949.	0.6	17
8	Contact properties to CVD-graphene on GaAs substrates for optoelectronic applications. Nanotechnology, 2014, 25, 335707.	2.6	17
9	Analysis of the possible reasons for the suppression of superconductivity in the Y1â^'x PrxBa2Cu3Oy system on the basis of thermoelectric power data. Physics of the Solid State, 1997, 39, 1352-1357.	0.6	14
10	Thermoelectric power and band spectrum transformation in Y1-xCaxBa2-xLaxCu3Oy. Superconductor Science and Technology, 2000, 13, 1600-1606.	3.5	14
11	Thermopower inY1â^'xCaxBa2â^'xLaxCu3OyandY1â^'xCaxBa2Cu3â^'xCoxOy. Physical Review B, 1999, 59, 6550-6556.	3.2	13
12	Giant Nernst effect in La0.88MnO3 and La0.7Ca0.3MnO3. Journal of Magnetism and Magnetic Materials, 2000, 211, 226-231.	2.3	12
13	The behavior of thermopower in the YBa2â^'x LaxCu3Oy system. Correlation between the band parameters in normal state and critical temperature. Physics of the Solid State, 1998, 40, 14-18.	0.6	10
14	Enhancement of low-field magnetoresistance in Ce doped manganite Sm0.55Sr0.45MnO3. Solid State Communications, 2002, 123, 353-356.	1.9	10
15	Transport properties, band spectrum and superconductivity in the Y1â^'xCaxBa2Cu3â^'zCozOy system. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1467-1468.	1.2	8
16	Superconductivity, Seebeck coefficient, and band structure transformation in Y1â^'x CaxBa2Cu3â^'x CoxOy (x=0â€“0.3). Physics of the Solid State, 1999, 41, 1248-1255.	0.6	8
17	The Nernst-Ettingshausen coefficient in conductors with a narrow conduction band: Analysis and application of its results to HTSC materials. Physics of the Solid State, 2001, 43, 1834-1844.	0.6	7
18	Mechanism governing modification of the properties of the normal state and the critical temperatures under codoping of YBa2Cu3Oy by calcium and praseodymium. Physics of the Solid State, 2006, 48, 1223-1229.	0.6	7

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19	The Nernstâ€“Ettingshausen Coefficient in the Normal Phase of Doped HTSCs of the YBa[sub 2]Cu[sub 3]O[sub y] System. Physics of the Solid State, 2005, 47, 202.	0.6	6
20	Determination of the parameters of the normal state in doped yttrium high-temperature superconductors from thermopower coefficients in terms of different models of electron transport. Physics of the Solid State, 2010, 52, 671-679.	0.6	6
21	Mechanism of a strong rise of Tc due to the calcium doping in Y1â^'xCaxBa2Cu2.8Zn0.2Oy. Physica C: Superconductivity and Its Applications, 2011, 471, 308-313.	1.2	6
22	Temperature and magnetic-field dependence of the conductivity ofYBa2Cu3O7â^'Î´films in the vicinity of the superconducting transition:â€‚â€‚Effect ofTcinhomogeneity. Physical Review B, 1999, 60, 12485-12494.	3.2	5
23	Optical and electrical properties of C60Tex films. Physics of the Solid State, 2001, 43, 1393-1399.	0.6	5
24	On the transformation of the normal-state band spectrum of Tl-based HTSCâ€™s with increasing number of CuO2 layers and doping level. Physica C: Superconductivity and Its Applications, 2008, 468, 394-400.	1.2	5
25	Normal-state Nernst effect of YBa2Cu3Ox (x=6.3â€“6.9): Experiment and analysis. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1279-1280.	1.2	4
26	Thermopower data analysis for the mercury-based HTS: Band structure calculations within a narrow-band model. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1825-1828.	1.2	4
27	Specific features of praseodymium-doping induced changes in the critical temperature and energy spectrum parameters of YBa2Cu3O y in the presence of calcium ions in the lattice. Physics of the Solid State, 2011, 53, 1769-1775.	0.6	4
28	Doping-induced variations of the Fermi level in calcium-containing Y-based HTSC and their influence on the critical temperature. Physica C: Superconductivity and Its Applications, 2013, 495, 19-24.	1.2	4
29	Anomalous suppression of Nernst effect in La0.7Ca0.3MnO3. Solid State Communications, 1999, 110, 309-314.	1.9	3
30	On the specific features and transformation of the band structure of mercury-based HTSC compounds. Physics of the Solid State, 2000, 42, 2188-2196.	0.6	3
31	Magnetic field suppression of Nernst effect in electron doped manganite, Ca0.88Sm0.12MnO3. Journal Physics D: Applied Physics, 2002, 35, 2077-2080.	2.8	3
32	Determination of parameters of a system of charge carriers in Y1â€“2x Ca x Pr x Ba2Cu3O y within a combined analysis of temperature dependences of thermoelectric power and Nernstâ€“Ettingshausen coefficients. Physics of the Solid State, 2015, 57, 2361-2368.	0.6	3
33	Thermopower in Bi2Sr2Ca(Cu1â^'xFex)2Oy (x=0â^'0.1) with various oxygen content. European Physical Journal D, 1996, 46, 1175-1176.	0.4	2
34	Normal-state Nernst coefficient in YBa2Cu3â^'xCoxOvwith different cobalt content. Superlattices and Microstructures, 1998, 24, 443-447.	3.1	2
35	Comparative analysis of the effect of La and Co on the superconductivity and energyband spectrum of YBa2Cu3Oy for different oxygen contents. Physics of the Solid State, 1999, 41, 350-354.	0.6	2
36	Mechanism responsible for the modification of the band spectrum and superconducting properties in the Tl2Ba2Ca1 â^' x Y x Cu2 â^' y Co y O z system. Physics of the Solid State, 2007, 49, 1611-1616.	0.6	2

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37	Mechanism of cerium doping-induced formation and modification of the energy spectrum in the Nd2 â˜' x Ce x CuO y system. Physics of the Solid State, 2013, 55, 254-261.	0.6	2
38	Thermopower and Nernst coefficient in the Y_{0.85}Ca_{0.15}Ba_{2â˜'x}La_xCu₃O_ysyste experimental results and joint quantitative analysis. Superconductor Science and Technology, 2017, 30, 095008.	3.5	2
39	Pair charge correlations in silicon nanostructures. , 1999, , .		1
40	Variable-range-hopping conduction via indium impurity states in Pb0.78Sn0.22Te solid solution. Semiconductors, 2000, 34, 889-890.	0.5	1
41	Magnetotransport coefficients of Sm0.55Sr0.45MnO3. Journal of Physics and Chemistry of Solids, 2005, 66, 143-145.	4.0	1
42	Band Spectrum Modification and Dynamics of Superconducting Properties in the Y[sub 1 â€“][sub x][sub â€‰]Ca[sub x]â€‰Ba[sub 2]Cu[sub 3 â€“][sub x]â€‰Zn[sub x]O[sub y] System. Physics of the Solid State, 2005, 47, 434.	0.6	1
43	The Nernst-Ettingshausen coefficient in hole-doped manganites. Physics of the Solid State, 2006, 48, 303-307.	0.6	1
44	Mechanisms of modification of the energy spectrum in high-temperature superconductors of the bismuth, thallium, and mercury systems upon doping and increase in the number of copper-oxygen layers. Physics of the Solid State, 2012, 54, 31-43.	0.6	1
45	Fractal Structure Near the Percolation Threshold for YBa2Cu3O7 Epitaxial Films. European Physical Journal Special Topics, 1996, 06, C3-259-C3-264.	0.2	1
46	Effect of Pr on electron band spectrum of YBa2Cu3Oy: study by thermopower data analysis. European Physical Journal D, 1996, 46, 1177-1178.	0.4	0
47	Layered perovskite-like compounds Y1 â˜' x CaxBa2Cu3 â˜' y ZnyO7 â˜' Î´: Physicochemical and electrical properties. Glass Physics and Chemistry, 2006, 32, 374-379.	0.7	0
48	Structure and superconducting properties of layered perovskite-like compounds Y1 â˜' 2x Ca x Pr x Ba2Cu3O y and Y1 â˜' x Ba2Pr x Cu3 â˜' x Zn x O y. Glass Physics and Chemistry, 2010, 36, 80-85.	0.7	0
49	Electrophysical properties of PCM-materials in crystalline and amorphous states. Journal of Physics: Conference Series, 2015, 586, 012009.	0.4	0
50	Thermal and magnetotransport coefficients in doped SmMnO3manganites. Journal of Physics: Conference Series, 2016, 741, 012205.	0.4	0
51	The calcium effect on the thermopower, critical temperature and charge-carrier system parameters in the Y0.75-xCaxPr0.25Ba2Cu3Oy HTSC-system. Physics of Complex Systems, 2020, 1, 142-149.	0.2	0