

# Vitaliy E Gasumyants

## List of Publications by Year in descending order

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51  
papers

461  
citations

759233

12  
h-index

752698

20  
g-index

52  
all docs

52  
docs citations

52  
times ranked

331  
citing authors

#	ARTICLE	IF	CITATIONS
1	The calcium effect on the thermopower, critical temperature and charge-carrier system parameters in the $Y_{0.75-x}Ca_xPr_{0.25}Ba_2Cu_3O_y$ HTSC-system. <i>Physics of Complex Systems</i> , 2020, 1, 142-149.	0.2	0
2	Thermopower and Nernst coefficient in the $Y_{0.85-x}Ca_{0.15-x}Ba_{2-x}La_xCu_3O_{3.5-y}$ system: experimental results and joint quantitative analysis. <i>Superconductor Science and Technology</i> , 2017, 30, 095008.	3.5	2
3	Thermal and magnetotransport coefficients in doped $SmMnO_3$ manganites. <i>Journal of Physics: Conference Series</i> , 2016, 741, 012205.	0.4	0
4	Determination of parameters of a system of charge carriers in $Y_{1-2x}Ca_xPr_xBa_2Cu_3O_y$ within a combined analysis of temperature dependences of thermoelectric power and Nernst-Ettingshausen coefficients. <i>Physics of the Solid State</i> , 2015, 57, 2361-2368.	0.6	3
5	Electrophysical properties of PCM-materials in crystalline and amorphous states. <i>Journal of Physics: Conference Series</i> , 2015, 586, 012009.	0.4	0
6	Contact properties to CVD-graphene on GaAs substrates for optoelectronic applications. <i>Nanotechnology</i> , 2014, 25, 335707.	2.6	17
7	Mechanism of cerium doping-induced formation and modification of the energy spectrum in the $Nd_{2-x}Ce_xCuO_y$ system. <i>Physics of the Solid State</i> , 2013, 55, 254-261.	0.6	2
8	Doping-induced variations of the Fermi level in calcium-containing Y-based HTSC and their influence on the critical temperature. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 495, 19-24.	1.2	4
9	Resistivity and thermopower of graphene made by chemical vapor deposition technique. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	44
10	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. <i>Physics of the Solid State</i> , 2012, 54, 31-43.	0.6	1
11	Specific features of praseodymium-doping induced changes in the critical temperature and energy spectrum parameters of $YBa_2Cu_3O_y$ in the presence of calcium ions in the lattice. <i>Physics of the Solid State</i> , 2011, 53, 1769-1775.	0.6	4
12	Mechanism of a strong rise of $T_c$ due to the calcium doping in $Y_{1-x}Ca_xBa_2Cu_{2.8}Zn_{0.2}O_y$ . <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 308-313.	1.2	6
13	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. <i>Physics of the Solid State</i> , 2010, 52, 671-679.	0.6	6
14	Structure and superconducting properties of layered perovskite-like compounds $Y_{1-2x}Ca_xPr_xBa_2Cu_3O_y$ and $Y_{1-x}Ba_2Pr_xCu_3Zn_xO_y$ . <i>Glass Physics and Chemistry</i> , 2010, 36, 80-85.	0.7	0
15	On the transformation of the normal-state band spectrum of Tl-based HTSCs with increasing number of $CuO_2$ layers and doping level. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 394-400.	1.2	5
16	Mechanism responsible for the modification of the band spectrum and superconducting properties in the $Tl_2Ba_2Ca_{1-x}Y_xCu_2Co_yO_z$ system. <i>Physics of the Solid State</i> , 2007, 49, 1611-1616.	0.6	2
17	Layered perovskite-like compounds $Y_{1-x}Ca_xBa_2Cu_3Zn_yO_7$ : Physicochemical and electrical properties. <i>Glass Physics and Chemistry</i> , 2006, 32, 374-379.	0.7	0
18	The Nernst-Ettingshausen coefficient in hole-doped manganites. <i>Physics of the Solid State</i> , 2006, 48, 303-307.	0.6	1

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19	Mechanism governing modification of the properties of the normal state and the critical temperatures under codoping of $\text{YBa}_2\text{Cu}_3\text{O}_y$ by calcium and praseodymium. <i>Physics of the Solid State</i> , 2006, 48, 1223-1229.	0.6	7
20	Magnetotransport coefficients of $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ . <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 143-145.	4.0	1
21	The Nernst-Ettingshausen Coefficient in the Normal Phase of Doped HTSCs of the $\text{YBa}_{[sub 2]} \text{Cu}_{[sub 3]} \text{O}_{[sub y]}$ System. <i>Physics of the Solid State</i> , 2005, 47, 202.	0.6	6
22	Band Spectrum Modification and Dynamics of Superconducting Properties in the $\text{Y}_{[sub 1-x]} \text{Ca}_{[sub x]} \text{Ba}_{[sub 2]} \text{Cu}_{[sub 3-x]} \text{Zn}_{[sub x]} \text{O}_{[sub y]}$ System. <i>Physics of the Solid State</i> , 2005, 47, 434.	0.6	4
23	Magnetic field suppression of Nernst effect in electron doped manganite, $\text{Ca}_{0.88}\text{Sm}_{0.12}\text{MnO}_3$ . <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2077-2080.	2.8	3
24	Enhancement of low-field magnetoresistance in Ce doped manganite $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ . <i>Solid State Communications</i> , 2002, 123, 353-356.	1.9	10
25	Optical and electrical properties of $\text{C}_6\text{O}$ Tex films. <i>Physics of the Solid State</i> , 2001, 43, 1393-1399.	0.6	5
26	The Nernst-Ettingshausen coefficient in conductors with a narrow conduction band: Analysis and application of its results to HTSC materials. <i>Physics of the Solid State</i> , 2001, 43, 1834-1844.	0.6	7
27	Thermopower data analysis for the mercury-based HTS: Band structure calculations within a narrow-band model. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 1825-1828.	1.2	4
28	Variable-range-hopping conduction via indium impurity states in $\text{Pb}_{0.78}\text{Sn}_{0.22}\text{Te}$ solid solution. <i>Semiconductors</i> , 2000, 34, 889-890.	0.5	1
29	On the specific features and transformation of the band structure of mercury-based HTSC compounds. <i>Physics of the Solid State</i> , 2000, 42, 2188-2196.	0.6	3
30	Giant Nernst effect in $\text{La}_{0.88}\text{MnO}_3$ and $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 211, 226-231.	2.3	12
31	Thermoelectric power and band spectrum transformation in $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_{2-x}\text{La}_x\text{Cu}_3\text{O}_y$ . <i>Superconductor Science and Technology</i> , 2000, 13, 1600-1606.	3.5	14
32	Band spectrum transformation and $T_c$ variation in the $\text{La}_{2-x}\text{Sr}_x\text{CuO}_y$ system in the underdoped and overdoped regimes. <i>Physical Review B</i> , 2000, 62, 5989-5996.	3.2	22
33	Effect of praseodymium on the normal-state and superconducting properties of $\text{RBa}_2\text{Cu}_3\text{O}_y$ : comparative study of the role of the Pr ion on Rand Ba sites. <i>Physical Review B</i> , 2000, 61, 12404-12411.	3.2	22
34	Temperature and magnetic-field dependence of the conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films in the vicinity of the superconducting transition: Effect of $T_c$ inhomogeneity. <i>Physical Review B</i> , 1999, 60, 12485-12494.	3.2	5
35	Anomalous Nernst effect in $\text{La}_{0.88}\text{MnO}_3$ . <i>Physical Review B</i> , 1999, 59, R9019-R9022.	3.2	21
36	Thermopower in $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_{2-x}\text{La}_x\text{Cu}_3\text{O}_y$ and $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{Co}_x\text{O}_y$ . <i>Physical Review B</i> , 1999, 59, 6550-6556.	3.2	13

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37	Anomalous suppression of Nernst effect in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ . Solid State Communications, 1999, 110, 309-314.	1.9	3
38	Comparative analysis of the effect of La and Co on the superconductivity and energyband spectrum of $\text{YBa}_2\text{Cu}_3\text{O}_y$ for different oxygen contents. Physics of the Solid State, 1999, 41, 350-354.	0.6	2
39	Superconductivity, Seebeck coefficient, and band structure transformation in $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{y-x}$ ( $x=0\text{--}0.3$ ). Physics of the Solid State, 1999, 41, 1248-1255.	0.6	8
40	Pair charge correlations in silicon nanostructures. , 1999, , .		1
41	The behavior of thermopower in the $\text{YBa}_2\text{Cu}_3\text{O}_y$ system. Correlation between the band parameters in normal state and critical temperature. Physics of the Solid State, 1998, 40, 14-18.	0.6	10
42	The possibility of introducing additional states in the conduction band of $\text{YBa}_2\text{Cu}_3\text{O}_y$ by Ca doping. Physics of the Solid State, 1998, 40, 1943-1949.	0.6	17
43	Normal-state Nernst coefficient in $\text{YBa}_2\text{Cu}_3\text{O}_{y-x}\text{Co}_x$ with different cobalt content. Superlattices and Microstructures, 1998, 24, 443-447.	3.1	2
44	Analysis of the possible reasons for the suppression of superconductivity in the $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_y$ system on the basis of thermoelectric power data. Physics of the Solid State, 1997, 39, 1352-1357.	0.6	14
45	Normal-state Nernst effect of $\text{YBa}_2\text{Cu}_3\text{O}_x$ ( $x=6.3\text{--}6.9$ ): Experiment and analysis. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1279-1280.	1.2	4
46	Scaling of the thermoelectric power in a wide temperature range in $\text{Bi}_2\text{Sr}_2\text{Ca}_{1-x}\text{Nd}_x\text{Cu}_2\text{O}_y$ ( $x=0\text{--}0.5$ ): Experiment and interpretation. Physical Review B, 1996, 53, 905-910.	3.2	38
47	Thermopower in $\text{Bi}_2\text{Sr}_2\text{Ca}(\text{Cu}_{1-x}\text{Fe}_x)_2\text{O}_y$ ( $x=0\text{--}0.1$ ) with various oxygen content. European Physical Journal D, 1996, 46, 1175-1176.	0.4	2
48	Effect of Pr on electron band spectrum of $\text{YBa}_2\text{Cu}_3\text{O}_y$ : study by thermopower data analysis. European Physical Journal D, 1996, 46, 1177-1178.	0.4	0
49	Fractal Structure Near the Percolation Threshold for $\text{YBa}_2\text{Cu}_3\text{O}_7$ Epitaxial Films. European Physical Journal Special Topics, 1996, 06, C3-259-C3-264.	0.2	1
50	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
51	Transport properties, band spectrum and superconductivity in the $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{y-z}\text{Co}_z$ system. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1467-1468.	1.2	8