

# Elena Rogacheva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1237392/publications.pdf>

Version: 2024-02-01

40  
papers

668  
citations

567281

15  
h-index

580821

25  
g-index

43  
all docs

43  
docs citations

43  
times ranked

506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of deviation from stoichiometry on transport and mechanical properties of Bi <sub>2</sub> Se <sub>3</sub> polycrystals. <i>Low Temperature Physics</i> , 2021, 47, 134-140.	0.6	0
2	Thickness-dependent quantum oscillations of the transport properties in bismuth selenide thin films. <i>Thin Solid Films</i> , 2019, 684, 31-35.	1.8	7
3	Influence of Composition on the Thermoelectric Properties of Bi <sub>1-x</sub> Sb <sub>x</sub> Thin Films. <i>Journal of Electronic Materials</i> , 2017, 46, 3821-3825.	2.2	1
4	Size Effects in Transport Properties of PbSe Thin Films. <i>Journal of Electronic Materials</i> , 2017, 46, 3842-3850.	2.2	4
5	Quantum Size Effects in Transport Properties of Bi <sub>2</sub> Te <sub>3</sub> Topological Insulator Thin Films. <i>Journal of Electronic Materials</i> , 2017, 46, 3949-3957.	2.2	8
6	Magnetoresistance of polycrystalline Bi <sub>1-x</sub> Sb <sub>x</sub> alloys (x = 0) $T_j \propto \frac{1}{Q}$		
7	Specific heat critical behavior in Bi <sub>1-x</sub> Sb <sub>x</sub> solid solutions. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	9
8	Thickness dependent quantum oscillations of transport properties in topological insulator Bi <sub>2</sub> Te <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	21
9	Concentration anomalies of the thermal conductivity in PbTe-PbSe semiconductor solid solutions. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1231-1238.	1.5	5
10	Effect of Initial Bulk Material Composition on Thermoelectric Properties of Bi <sub>2</sub> Te <sub>3</sub> Thin Films. <i>Journal of Electronic Materials</i> , 2013, 42, 1324-1329.	2.2	13
11	Thermal Conductivity in Bi <sub>1-x</sub> Sb <sub>x</sub> Solid Solutions. <i>Journal of Electronic Materials</i> , 2013, 42, 2098-2102.	2.2	8
12	Influence of Vanadium on the Defect Structure and Thermoelectric Properties of GeTe. <i>Journal of Electronic Materials</i> , 2013, 42, 1771-1775.	2.2	10
13	Quantum size effects and transport phenomena in PbSe quantum wells and PbSe/EuS superlattices. , 2013, , .		1
14	Self-organization processes in PbTe-Bi <sub>2</sub> Te <sub>3</sub> semiconductor solid solutions and thermoelectric properties. , 2012, , .		0
15	Transition To Impurity Continuum And Thermal Properties Of IV-VI-based Semiconductor Solid Solutions. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	1
16	Mechanism of "Controlled Atomic Defects" Extension to the Ternary Systems. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 05FB01.	1.5	2
17	Evidence for self-organization processes in PbTe-Bi <sub>2</sub> Te <sub>3</sub> semiconductor solid solutions. <i>Journal of Materials Research</i> , 2011, 26, 1627-1633.	2.6	8
18	Mechanism of "Controlled Atomic Defects" Extension to the Ternary Systems. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 05FB01.	1.5	0

#	ARTICLE	IF	CITATIONS
19	Oscillatory Behavior of Thermoelectric Properties in p-PbTe Quantum Wells. Journal of Electronic Materials, 2010, 39, 2085-2091.	2.2	10
20	Percolation effects in semimetallic Bi <sub>1-x</sub> Sb solid solutions. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 344-347.	1.8	12
21	Enhancement In Charge Carrier Mobility Under Transition To Heavy Doping. , 2010, , .		0
22	Transition into a gapless state and concentration anomalies in the properties of Bi <sub>1-x</sub> Sb solid solutions. Applied Physics Letters, 2009, 94, .	3.3	17
23	Magnetic field dependences of galvanomagnetic properties of polycrystalline Bi-Sb solid solutions. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 298-302.	1.8	3
24	Growth mechanism and thermoelectric properties of PbSe/EuS superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1149-1153.	0.8	2
25	Quantum size effects and transport phenomena in thin Bi layers. Microelectronics Journal, 2009, 40, 728-730.	2.0	9
26	Non-stoichiometry and properties of SnTe <sub>1-x</sub> Cd <sub>x</sub> semiconducting phase of variable composition. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2856-2860.	1.8	6
27	Oscillations in the thickness dependences of the room-temperature Seebeck coefficient in SnTe thin films. Thin Solid Films, 2005, 484, 433-437.	1.8	26
28	Growth mechanism and thermoelectric properties of PbTe/SnTe/PbTe heterostructures. Thin Solid Films, 2005, 493, 41-48.	1.8	25
29	Quantum size effects in n-PbTe <sub>1-x</sub> p-SnTe <sub>x</sub> n-PbTe heterostructures. Applied Physics Letters, 2005, 86, 063103.	3.3	54
30	Influence of oxidation on the transport properties of IV <sup>VI</sup> -thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 310-312.	2.7	18
31	Quantum size effects in IV <sup>VI</sup> quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 313-315.	2.7	24
32	Quantum-size effects in n-type bismuth thin films. Applied Physics Letters, 2003, 82, 2628-2630.	3.3	65
33	Oscillatory behaviour of the transport properties in PbTe quantum wells. Nanotechnology, 2003, 14, 53-59.	2.6	44
34	Effect of oxidation on the thermoelectric properties of PbSe thin films. Journal of Electronic Materials, 2002, 31, 298-303.	2.2	18
35	The temperature and concentration dependences of the charge carrier mobility in PbTe-MnTe solid solutions. Semiconductors, 2002, 36, 966-970.	0.5	16
36	Quantum size effects in PbSe quantum wells. Applied Physics Letters, 2002, 80, 2690-2692.	3.3	67

#	ARTICLE	IF	CITATIONS
37	Isotherms of thermal conductivity in PbTe-MnTe solid solutions. <i>Physics of the Solid State</i> , 2001, 43, 1033-1036.	0.6	10
38	Effect of oxidation on the thermoelectric properties of PbTe and PbS epitaxial films. <i>Applied Physics Letters</i> , 2001, 78, 1661-1663.	3.3	59
39	Critical Phenomena in Heavily-Doped Semiconducting Compounds. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 775.	1.5	42
40	Nonstoichiometry and Properties of SnTe Semiconductor Phase of Variable Composition. , 0, , .		2