

# Elena Rogacheva

## List of Publications by Year in descending order

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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  | Quantum size effects in PbSe quantum wells. Applied Physics Letters, 2002, 80, 2690-2692.   | 3.3 | 67        |
| 2  | Quantum-size effects in n-type bismuth thin films. Applied Physics Letters, 2003, 82, 2628-2630.  | 3.3 | 65        |
| 3  | Effect of oxidation on the thermoelectric properties of PbTe and PbS epitaxial films. Applied Physics Letters, 2001, 78, 1661-1663.   | 3.3 | 59        |
| 4  | Quantum size effects in n-PbTe/p-SnTe/n-PbTe heterostructures. Applied Physics Letters, 2005, 86, 063103.   | 3.3 | 54        |
| 5  | Oscillatory behaviour of the transport properties in PbTe quantum wells. Nanotechnology, 2003, 14, 53-59.   | 2.6 | 44        |
| 6  | Critical Phenomena in Heavily-Doped Semiconducting Compounds. Japanese Journal of Applied Physics, 1993, 32, 775.   | 1.5 | 42        |
| 7  | 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        |
| 8  | Growth mechanism and thermoelectric properties of PbTe/SnTe/PbTe heterostructures. Thin Solid Films, 2005, 493, 41-48.  | 1.8 | 25        |
| 9  | Quantum size effects in IV-VI quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 313-315.  | 2.7 | 24        |
| 10 | Thickness dependent quantum oscillations of transport properties in topological insulator Bi <sub>2</sub> Te <sub>3</sub> thin films. Applied Physics Letters, 2015, 106, .   | 3.3 | 21        |
| 11 | Effect of oxidation on the thermoelectric properties of PbSe thin films. Journal of Electronic Materials, 2002, 31, 298-303.  | 2.2 | 18        |
| 12 | Influence of oxidation on the transport properties of IV-VI-thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 310-312.                             | 2.7 | 18        |
| 13 | Transition into a gapless state and concentration anomalies in the properties of Bi <sub>1-x</sub> Sb <sub>x</sub> solid solutions. Applied Physics Letters, 2009, 94, .      | 3.3 | 17        |
| 14 | The temperature and concentration dependences of the charge carrier mobility in PbTe-MnTe solid solutions. Semiconductors, 2002, 36, 966-970.                                 | 0.5 | 16        |
| 15 | Effect of Initial Bulk Material Composition on Thermoelectric Properties of Bi <sub>2</sub> Te <sub>3</sub> Thin Films. Journal of Electronic Materials, 2013, 42, 1324-1329. | 2.2 | 13        |
| 16 | Percolation effects in semimetallic Bi <sub>1-x</sub> Sb <sub>x</sub> solid solutions. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 344-347.      | 1.8 | 12        |
| 17 | Isotherms of thermal conductivity in PbTe-MnTe solid solutions. Physics of the Solid State, 2001, 43, 1033-1036.  | 0.6 | 10        |
| 18 | Oscillatory Behavior of Thermoelectric Properties in p-PbTe Quantum Wells. Journal of Electronic Materials, 2010, 39, 2085-2091.  | 2.2 | 10        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Influence of Vanadium on the Defect Structure and Thermoelectric Properties of GeTe. Journal of Electronic Materials, 2013, 42, 1771-1775.   | 2.2 | 10        |
| 20 | Quantum size effects and transport phenomena in thin Bi layers. Microelectronics Journal, 2009, 40, 728-730.   | 2.0 | 9         |
| 21 | Specific heat critical behavior in Bi <sub>1-x</sub> Sb <sub>x</sub> solid solutions. Applied Physics Letters, 2016, 109, .  | 3.3 | 9         |
| 22 | Evidence for self-organization processes in PbTe-Bi <sub>2</sub> Te <sub>3</sub> semiconductor solid solutions. Journal of Materials Research, 2011, 26, 1627-1633.                  | 2.6 | 8         |
| 23 | Thermal Conductivity in Bi <sup>1-x</sup> Sb <sup>x</sup> Solid Solutions. Journal of Electronic Materials, 2013, 42, 2098-2102.   | 2.2 | 8         |
| 24 | Quantum Size Effects in Transport Properties of Bi <sub>2</sub> Te <sub>3</sub> Topological Insulator Thin Films. Journal of Electronic Materials, 2017, 46, 3949-3957.              | 2.2 | 8         |
| 25 | Thickness-dependent quantum oscillations of the transport properties in bismuth selenide thin films. Thin Solid Films, 2019, 684, 31-35.   | 1.8 | 7         |
| 26 | Non-stoichiometry and properties of SnTe@Cd semiconductor phase of variable composition. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2856-2860.         | 1.8 | 6         |
| 27 | Concentration anomalies of the thermal conductivity in PbTe-PbSe semiconductor solid solutions. Physica Status Solidi (B): Basic Research, 2014, 251, 1231-1238.                     | 1.5 | 5         |
| 28 | Size Effects in Transport Properties of PbSe Thin Films. Journal of Electronic Materials, 2017, 46, 3842-3850.   | 2.2 | 4         |
| 29 | 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         |
| 30 | 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         |
| 31 | Mechanism of Controlled Atomic Defects: Extension to the Ternary Systems. Japanese Journal of Applied Physics, 2011, 50, 05FB01.   | 1.5 | 2         |
| 32 | Nonstoichiometry and Properties of SnTe Semiconductor Phase of Variable Composition. , 0, , .  |     | 2         |
| 33 | Transition To Impurity Continuum And Thermal Properties Of IV-VI-based Semiconductor Solid Solutions. AIP Conference Proceedings, 2011, , .  | 0.4 | 1         |
| 34 | Quantum size effects and transport phenomena in PbSe quantum wells and PbSe/EuS superlattices. , 2013, , .   |     | 1         |
| 35 | Influence of Composition on the Thermoelectric Properties of Bi <sup>1-x</sup> Sb <sup>x</sup> Thin Films. Journal of Electronic Materials, 2017, 46, 3821-3825.                     | 2.2 | 1         |
| 36 | Enhancement In Charge Carrier Mobility Under Transition To Heavy Doping. , 2010, , .   |     | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Self-organization processes in PbTe-Bi <sub>2</sub> Te <sub>3</sub> semiconductor solid solutions and thermoelectric properties. , 2012, , .                               |     | 0         |
| 38 | Magneto-resistance of polycrystalline Bi <sub>1-x</sub> Sb <sub>x</sub> alloys (x = 0) Tj ETQq0 0 0 rgBT /Qverlock 10  |     |           |
| 39 | Effect of deviation from stoichiometry on transport and mechanical properties of Bi <sub>2</sub> Se <sub>3</sub> polycrystals. Low Temperature Physics, 2021, 47, 134-140. | 0.6 | 0         |
| 40 | Mechanism of "Controlled Atomic Defects" Extension to the Ternary Systems. Japanese Journal of Applied Physics, 2011, 50, 05FB01.  | 1.5 | 0         |