

Irina Fedorchenko

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Manganese-doped CdGeAs ₂ , ZnGeAs ₂ and ZnSiAs ₂ chalcopyrites: A new materials for spintronics. Journal of Magnetism and Magnetic Materials, 2011, 323, 2923-2928. Colossal linear magnetoresistance in a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si17.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mstyle mathvariant="normal"} \rangle \langle \text{mml:mi} \rangle \text{CdGeAs} \langle \text{mml:mi} \rangle \langle \text{mml:mstyle} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mstyle mathvariant="normal"} \rangle \langle \text{mml:mi} \rangle \text{MnAs} \langle \text{mml:mi} \rangle \langle \text{mml:mstyle} \rangle \langle \text{mml:} \rangle$	2.3	26
2	Composites based on self-assembled MnAs ferromagnet nanoclusters embedded in ZnSnAs ₂ semiconductor. Journal of Alloys and Compounds, 2015, 650, 277-284.	5.5	16
4	Emergence of pressure-induced metamagnetic-like state in Mn-doped CdGeAs ₂ chalcopyrite. Applied Physics Letters, 2013, 103, 192403.	3.3	14
5	Heterostructure optimization for increasing LED efficiency. Japanese Journal of Applied Physics, 2016, 55, 05FJ13.	1.5	13
6	Growth method for AlIBV and AlBVI heterostructures. Journal of Crystal Growth, 2018, 483, 245-250.	1.5	12
7	Phase diagram of the ZnSiAs ₂ –MnAs system. Journal of Crystal Growth, 2017, 468, 683-687.	1.5	11
8	Changes in the magnetization hysteresis direction and structure-driven magnetoresistance of a chalcopyrite-based magnetic semiconductor. Journal Physics D: Applied Physics, 2016, 49, 125007.	2.8	10
9	Optical properties and plasmon – Two different phonons coupling in ZnGeAs ₂ + Mn. Journal of Alloys and Compounds, 2013, 548, 33-37.	5.5	7
10	Far-infrared spectroscopy of Zn _{1-x} MnxGeAs ₂ single crystals: Plasma damping influence on plasmon – Phonon interaction. Journal of Alloys and Compounds, 2015, 649, 375-379.	5.5	6
11	Novel Ferromagnetic Mn-Doped ZnSiAs ₂ Chalcopyrite with Curie Point Exceeded Room Temperature. Solid State Phenomena, 2009, 152-153, 311-314.	0.3	4
12	Raman spectra of ZnGeAs ₂ highly doped with Mn. Materials Research Bulletin, 2014, 59, 300-304.	5.2	4
13	Phase diagram of the ZnSnAs ₂ –MnAs system. Journal of Alloys and Compounds, 2015, 626, 9-15.	5.5	4
14	Growth and magnetic properties of Mn-doped ZnSiAs ₂ /Si heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1336-1338.	0.8	3
15	Manganese-Doped CdGeAs ₂ , ZnGeAs ₂ and ZnSiAs ₂ Chalcopyrites: A New Advanced Materials for Spintronics. Solid State Phenomena, 0, 168-169, 31-34.	0.3	3
16	Electrical and magnetic properties of the diluted magnetic semiconductors Cd _{1-x} MnxGeP ₂ and Cd _{1-x} MnxGeAs ₂ at high pressures. Inorganic Materials, 2012, 48, 872-876.	0.8	3
17	Effect of high pressure on the electrical resistivity and the volume change in ferromagnetic semiconductors AlBIVC 2 V :Mn. Russian Journal of Inorganic Chemistry, 2015, 60, 994-998.	1.3	3
18	Transport and magnetic properties of a Zn _{0.1} Cd _{0.9} GeAs ₂ + 10 wt % MnAs composite with magnetic clusters at high pressure. Physics of the Solid State, 2017, 59, 483-486.	0.6	3

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19	High-pressure magnetic phase transition and galvanomagnetic effects in the high-temperature ferromagnet p-Cd _{0.7} Mn _{0.3} GeAs ₂ . <i>Inorganic Materials</i> , 2010, 46, 919-923.	0.8	2
20	Magnetic properties of dilute magnetic semiconductor Cd _{0.82} Mn _{0.18} GeAs ₂ under high pressures. <i>Russian Journal of Inorganic Chemistry</i> , 2011, 56, 924-927.	1.3	2
21	Spin Filtering on the MnSb Cluster Interface in GaSbMn Thin Films. <i>Solid State Phenomena</i> , 2015, 233-234, 643-647.	0.3	2
22	High-pressure volume magnetostriction in the diluted magnetic semiconductor Cd _{1-x} Mn _x GeAs ₂ (x) Tj ETQq0 0,0 rgBT /Qverlock 10	0.8	1
23	Chalcopyrite semimagnetic semiconductors: From nanocomposite to homogeneous material. <i>Science of Sintering</i> , 2014, 46, 271-281.	1.4	1
24	Making Ferromagnetic Heterostructures Si/Zn_{1-X}Mn_XSi₂ and Ge/Zn_{1-X}Mn_XGeAs₂. <i>Solid State Phenomena</i> , 0, 168-169, 313-316.	0.3	0
25	Magnetic properties of oriented p-Cd _{0.947} Mn _{0.053} GeAs ₂ single crystals at pressures of up to 7 GPa. <i>Inorganic Materials</i> , 2011, 47, 1295-1297.	0.8	0
26	Growth, characterization and study of ferromagnetism of bismuth telluride doped with manganese. <i>Journal of Crystal Growth</i> , 2014, 401, 636-639.	1.5	0
27	Hall effect in a magnetogranulated structure of a semiconductor-ferromagnetic system at high pressures. <i>Inorganic Materials</i> , 2014, 50, 647-650.	0.8	0
28	Resistivity and bulk compressibility of manganese-doped ZnGeAs ₂ at hydrostatic pressures of up to 9 GPa. <i>Inorganic Materials</i> , 2015, 51, 299-301.	0.8	0
29	InAlGaP Heterostructures and LEDs optimization. <i>Materials Science Forum</i> , 2016, 845, 30-33.	0.3	0