

# Irina Fedorchenko

## List of Publications by Year in descending order

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29  
papers

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h-index

1125743

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docs citations

29  
times ranked

159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth method for AlIBV and AlBVI heterostructures. Journal of Crystal Growth, 2018, 483, 245-250.	1.5	12
2	Transport and magnetic properties of a Zn <sub>0.1</sub> Cd <sub>0.9</sub> GeAs <sub>2</sub> + 10 wt % MnAs composite with magnetic clusters at high pressure. Physics of the Solid State, 2017, 59, 483-486.	0.6	3
3	Phase diagram of the ZnSiAs <sub>2</sub> -MnAs system. Journal of Crystal Growth, 2017, 468, 683-687.	1.5	11
4	Heterostructure optimization for increasing LED efficiency. Japanese Journal of Applied Physics, 2016, 55, 05FJ13.	1.5	13
5	InAlGaP Heterostructures and LEDs optimization. Materials Science Forum, 2016, 845, 30-33.	0.3	0
6	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
7	Spin Filtering on the MnSb Cluster Interface in GaSbMn Thin Films. Solid State Phenomena, 2015, 233-234, 643-647.	0.3	2
8	Far-infrared spectroscopy of Zn <sub>1-x</sub> Mn <sub>x</sub> GeAs <sub>2</sub> single crystals: Plasma damping influence on plasmon-Phonon interaction. Journal of Alloys and Compounds, 2015, 649, 375-379.	5.5	6
9	Composites based on self-assembled MnAs ferromagnet nanoclusters embedded in ZnSnAs <sub>2</sub> semiconductor. Journal of Alloys and Compounds, 2015, 650, 277-284.	5.5	16
10	Effect of high pressure on the electrical resistivity and the volume change in ferromagnetic semiconductors AlBVC 2 V :Mn. Russian Journal of Inorganic Chemistry, 2015, 60, 994-998.	1.3	3
11	Resistivity and bulk compressibility of manganese-doped ZnGeAs <sub>2</sub> at hydrostatic pressures of up to 9 GPa. Inorganic Materials, 2015, 51, 299-301.	0.8	0
12	Phase diagram of the ZnSnAs <sub>2</sub> -MnAs system. Journal of Alloys and Compounds, 2015, 626, 9-15.	5.5	4
13	Growth, characterization and study of ferromagnetism of bismuth telluride doped with manganese. Journal of Crystal Growth, 2014, 401, 636-639.	1.5	0
14	Raman spectra of ZnGeAs <sub>2</sub> highly doped with Mn. Materials Research Bulletin, 2014, 59, 300-304.	5.2	4
15	Hall effect in a magnetogranulated structure of a semiconductor-ferromagnetic system at high pressures. Inorganic Materials, 2014, 50, 647-650.	0.8	0
16	Chalcopyrite semimagnetic semiconductors: From nanocomposite to homogeneous material. Science of Sintering, 2014, 46, 271-281.	1.4	1
17	Emergence of pressure-induced metamagnetic-like state in Mn-doped CdGeAs <sub>2</sub> chalcopyrite. Applied Physics Letters, 2013, 103, 192403.	3.3	14
18	Optical properties and plasmon-Phonon interaction: Two different phonons coupling in ZnGeAs <sub>2</sub> + Mn. Journal of Alloys and Compounds, 2013, 548, 33-37.	5.5	7

#	ARTICLE	IF	CITATIONS
19	Electrical and magnetic properties of the diluted magnetic semiconductors $Cd_{1-x}Mn_xGeP_2$ and $Cd_{1-x}Mn_xGeAs_2$ at high pressures. <i>Inorganic Materials</i> , 2012, 48, 872-876.	0.8	3
20	High-pressure volume magnetostriction in the diluted magnetic semiconductor $Cd_{1-x}Mn_xGeAs_2$ ( $x$ ) $T_j$ $ETQq0,0,0rgBT / Qverlock 10$	0.8	1
21	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
22	Manganese-doped $CdGeAs_2$ , $ZnGeAs_2$ and $ZnSiAs_2$ chalcopyrites: A new materials for spintronics. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2923-2928.	2.3	26
23	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. Colossal linear magnetoresistance in a	1.3	2
24	$CdGeAs_2$	1.3	2
25	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
26	Novel Ferromagnetic Mn-Doped $ZnSiAs_2$ Chalcopyrite with Curie Point Exceeded Room Temperature. <i>Solid State Phenomena</i> , 2009, 152-153, 311-314.	0.3	4
27	Growth and magnetic properties of Mn-doped $ZnSiAs_2/Si$ heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1336-1338.	0.8	3
28	Making Ferromagnetic Heterostructures $Si/Zn_{1-x}Mn_xGeAs_2$ and $Ge/Zn_{1-x}Mn_xGeAs_2$ . <i>Solid State Phenomena</i> , 0, 168-169, 313-316.	0.3	0
29	Manganese-Doped $CdGeAs_2$ , $ZnGeAs_2$ and $ZnSiAs_2$ Chalcopyrites: A New Advanced Materials for Spintronics. <i>Solid State Phenomena</i> , 0, 168-169, 31-34.	0.3	3