Igor V Ershov

List of Publications by Citations

30 papers	301 citations	11 h-index	16 g-index
30 ext. papers	327 ext. citations	2.4 avg, IF	3.21 L-index

#	Paper	IF	Citations
30	Tuning the band structure, magnetic and transport properties of the zigzag graphene nanoribbons/hexagonal boron nitride heterostructures by transverse electric field. *Journal of Chemical Physics*, **2014**, 141, 014708	3.9	34
29	Electric field and substrate-induced modulation of spin-polarized transport in graphene nanoribbons on A3B5 semiconductors. *Journal of Applied Physics*, **2015**, 117, 174309	2.5	28
28	Magnetism and transport properties of zigzag graphene nanoribbons/hexagonal boron nitride heterostructures. *Journal of Applied Physics*, **2014**, 115, 053708	2.5	27
27	Effect of electric field on the electronic and magnetic properties of a graphene nanoribbon/aluminium nitride bilayer system. *RSC Advances*, **2015**, 5, 49308-49316	3.7	25
26	Surface states and adsorption energy of carbon in the interface of the two-dimensional graphene/Al2O3(0001) system. *Physics of the Solid State*, **2012**, 54, 2335-2343	0.8	18
25	Edge and substrate-induced bandgap in zigzag graphene nanoribbons on the hexagonal nitride boron 8-ZGNR/h-BN(0001). *AIP Advances*, **2013**, 3, 092105	1.5	18
24	Adsorption of atomic oxygen, electron structure and elastic moduli of TiC(001) surface during its laser reconstruction: Ab initio study. *Applied Surface Science*, **2015**, 351, 433-444	6.7	16
23	Electronic structure of bismuth ferrite and hematite single crystals: X-ray photoelectron study and calculation. *Physics of the Solid State*, **2011**, 53, 41-47	0.8	14
22	Materials for Spintronics: Magnetic and Transport Properties of Ultrathin (Monolayer Graphene)/MnO(001) and MnO(001) Films. *Journal of Modern Physics*, **2011**, 02, 1120-1135	0.5	14
21	Modulation of the band structure in bilayer zigzag graphene nanoribbons on hexagonal boron nitride using the force and electric fields. *Materials Chemistry and Physics*, **2015**, 154, 78-83	4.4	12
20	First principles investigations of the influence of O-adsorption on the structural and electronic properties of TiC(111) surfaces with vacancies. *Surface Science*, **2016**, 649, 20-26	1.8	11
19	First principles study of structural, electronic and magnetic properties of graphene adsorbed on the O-terminated MnO(111) surface. *Diamond and Related Materials*, **2017**, 74, 31-40	3.5	10
18	Effect of oxygen adsorption on structural and electronic properties of defective surfaces (0 0 1), (1 1 1), and (1 1 0) TiC: Ab initio study. *Computational Materials Science*, **2016**, 124, 344-352	3.2	10
17	First-principles study of the structural and electronic properties of graphene absorbed on MnO(111) surfaces. *Computational and Theoretical Chemistry*, **2016**, 1098, 22-30	2	9
16	Ab initio study of structural and electronic properties of zigzag graphene nanoribbons on hexagonal boron nitride. *Journal of Structural Chemistry*, **2014**, 55, 191-200	0.9	9
15	Strain-Tunable Electronic and Optical Properties of Monolayer Germanium Monosulfide: Ab-Initio Study. *Journal of Electronic Materials*, **2019**, 48, 2902-2909	1.9	8
14	Semiconductor-half-metal-metal transition and magnetism of bilayer graphene nanoribbons/hexagonal boron nitride heterostructure. *Solid State Communications*, **2014**, 199, 1-10	1.6	7

13	Ab initio study of magnetism and interaction of graphene with the polar MnO(111) surface. *Applied Surface Science*, **2017**, 419, 924-932	6.7	5
12	Strain engineering and electric field tunable electronic properties of Ti2CO2 MXene monolayer. *Materials Research Express*, **2019**, 6, 065910	1.7	4
11	Substrate-induced band structure and electronic properties in graphene/Al2O3(0001) interface. *Surface Science*, **2015**, 632, 111-117	1.8	4
10	Localized electron states and magnetic properties at the interface of a two-dimensional graphene/MnO(001) system. *Journal of Surface Investigation*, **2011**, 5, 754-763	0.5	4
9	Adsorption and magnetism of bilayer graphene on the MnO polar surface with oxygen vacancies in the interface: First principles study. *Superlattices and Microstructures*, **2018**, 117, 72-81	2.8	3
8	Electronic structure and physical properties of oxygen-adsorbed TiC and low-defects TixCy(111) surfaces: A first principle calculations. *Journal of Electron Spectroscopy and Related Phenomena*, **2018**, 222, 142-148	1.7	3
7	Electronic structure and magnetism of the MnF2 doped graphene on MnO (1 1 1): Ab initio study. *Applied Surface Science*, **2018**, 462, 772-782	6.7	3
6	First principles study of the atomic and electronic structure in graphene-fullerene hybrid systems. *Letters on Materials*, **2020**, 10, 365-370	0.9	2
5	Remote measurement of sunflower seed moisture content by the use of microwaves. *Journal of the Science of Food and Agriculture*, **2017**, 97, 4880-4882	4.3	1
4	Modulation the Band Structure and Physical Properties of the Graphene Materials with Electric Field and Semiconductor Substrate. *Springer Proceedings in Physics*, **2016**, 279-297	0.2	1
3	Characterization of Graphenic Carbon Produced by Pulsed Laser Ablation of Sacrificial Carbon Tapes. *Applied Sciences (Switzerland)*, **2021**, 11, 11972	2.6	1
2	Electron structure and charge-carrier effective masses in In x Ga1 □x N (x = 0.25, 0.5, and 0.75) cubic systems. *Semiconductors*, **2014**, 48, 1281-1286	0.7	0
1	Interaction of bilayer graphene with MnO(111) surface films. *Journal of Physics: Conference Series*, **2017**, 857, 012012	0.3	