

Arqum Hashmi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31 papers	663 citations	13 h-index	25 g-index
32 ext. papers	744 ext. citations	4.2 avg, IF	4.6 L-index

#	Paper	IF	Citations
31	Nonlinear dynamics of electromagnetic field and valley polarization in WSe2 monolayer. <i>Applied Physics Letters</i> , 2022 , 120, 051108	3.4	0
30	Spin Valley Hall phenomena driven by Van Hove singularities in blistered graphene. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	1
29	Ising ferromagnetism and robust half-metallicity in two-dimensional honeycomb-kagome Cr2O3 layer. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	7
28	Eradicating negative-Set behavior of TiO-based devices by inserting an oxygen vacancy rich zirconium oxide layer for data storage applications. <i>Nanotechnology</i> , 2020 , 31, 325201	3.4	7
27	Two-dimensional honeycomb hafnene monolayer: stability and magnetism by structural transition. <i>Nanoscale</i> , 2017 , 9, 10038-10043	7.7	5
26	Ultra-high capacity hydrogen storage in a Li decorated two-dimensional C2N layer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2821-2828	13	83
25	Two-Dimensional Magnetic Semiconductor in Feroxyhyte. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35368-35375	9.5	10
24	Superconductivity in two-dimensional ferromagnetic MnB. <i>Scientific Reports</i> , 2017 , 7, 17101	4.9	8
23	Ferromagnetism controlled by electric field in tilted phosphorene nanoribbon. <i>Scientific Reports</i> , 2016 , 6, 26300	4.9	15
22	Manipulation of n and p type dope black phosphorene layer: A first principles study. <i>Current Applied Physics</i> , 2016 , 16, 506-514	2.6	10
21	Long-Range Magnetic Ordering and Switching of Magnetic State by Electric Field in Porous Phosphorene. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 647-52	6.4	16
20	Graphene/phosphorene bilayer: High electron speed, optical property and semiconductor-metal transition with electric field. <i>Current Applied Physics</i> , 2016 , 16, 318-323	2.6	22
19	Manipulation of Magnetic State in Armchair Black Phosphorene Nanoribbon by Charge Doping. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14423-30	9.5	31
18	Transition Metal Doped Phosphorene: First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9198-9204	3.8	199
17	Geometry, electronic structures and optical properties of phosphorus nanotubes. <i>Nanotechnology</i> , 2015 , 26, 415702	3.4	33
16	Optical properties of g-C4N3/BN bilayer film: A first-principles study. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 1624-1629	0.6	1
15	Spin-Dependent Transport and Optical Properties of Transparent Half-Metallic g-C4N3 Films. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1859-1866	3.8	15

14	Thickness dependent optical properties of multilayer BN/Graphene/BN. <i>Surface Science</i> , 2015 , 634, 25-30.	0.8	7
13	Anisotropic bias dependent transport property of defective phosphorene layer. <i>Scientific Reports</i> , 2015 , 5, 12482	4.9	38
12	Magnetic Properties of Ni/BN/Co Trilayer Structure: A First Principles Study. <i>Journal of Magnetism</i> , 2015 , 20, 201-206	1.9	
11	Metal free half metallicity in 2D system: structural and magnetic properties of g-C4N3 on BN. <i>Scientific Reports</i> , 2014 , 4, 4374	4.9	37
10	Transparent half metallic g-C4N3 nanotubes: potential multifunctional applications for spintronics and optical devices. <i>Scientific Reports</i> , 2014 , 4, 6059	4.9	28
9	Transition from half metal to semiconductor in Li doped g-C4N3. <i>Journal of Applied Physics</i> , 2014 , 115, 124312	2.5	7
8	Band gap and effective mass of multilayer BN/graphene/BN: van der Waals density functional approach. <i>Journal of Applied Physics</i> , 2014 , 115, 194304	2.5	7
7	First-principles study of bilayer graphene on BN/Co(111): van der Waals density functional approach. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1370-1374	0.6	2
6	Metallic behavior and enhanced adsorption energy of graphene on BN layer induced by Cu(111) substrate. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 900-903	0.6	3
5	Magnetic properties of graphene/BN/Co(111) and potential spintronics. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 355, 7-11	2.8	13
4	Thickness dependent band gap and effective mass of BN/graphene/BN and graphene/BN/graphene heterostructures. <i>Surface Science</i> , 2013 , 610, 27-32	1.8	26
3	Magnetization reversal and spintronics of Ni/Graphene/Co induced by doped graphene. <i>Applied Physics Letters</i> , 2013 , 102, 112403	3.4	12
2	Energy product and coercivity of a rare-earth-free multilayer FeCo/FePt exchange spring magnet. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 918-923	0.6	15
1	Spin reorientation transition of Fe/FeCo/Cu(001) and Fe/FeCo/Co/Cu(001). <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 343, 262-267	2.8	5