

Rashid Jalil

List of Publications by Citations

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47
papers

16,275
citations

35
h-index

51
g-index

51
ext. papers

17,957
ext. citations

11.4
avg, IF

5.88
L-index

#	Paper	IF	Citations
47	Field-effect tunneling transistor based on vertical graphene heterostructures. <i>Science</i> , 2012 , 335, 947-50	33.3	1991
46	Strong light-matter interactions in heterostructures of atomically thin films. <i>Science</i> , 2013 , 340, 1311-4	33.3	1850
45	Uniaxial strain in graphene by Raman spectroscopy: G peak splitting, Grüneisen parameters, and sample orientation. <i>Physical Review B</i> , 2009 , 79,	3.3	1422
44	Vertical field-effect transistor based on graphene-WS ₂ heterostructures for flexible and transparent electronics. <i>Nature Nanotechnology</i> , 2013 , 8, 100-3	28.7	1342
43	Micrometer-scale ballistic transport in encapsulated graphene at room temperature. <i>Nano Letters</i> , 2011 , 11, 2396-9	11.5	1203
42	Fluorographene: a two-dimensional counterpart of Teflon. <i>Small</i> , 2010 , 6, 2877-84	11	979
41	Cloning of Dirac fermions in graphene superlattices. <i>Nature</i> , 2013 , 497, 594-7	50.4	884
40	Hunting for monolayer boron nitride: optical and Raman signatures. <i>Small</i> , 2011 , 7, 465-8	11	791
39	Cross-sectional imaging of individual layers and buried interfaces of graphene-based heterostructures and superlattices. <i>Nature Materials</i> , 2012 , 11, 764-7	27	664
38	Electron tunneling through ultrathin boron nitride crystalline barriers. <i>Nano Letters</i> , 2012 , 12, 1707-10	11.5	579
37	Interfacial stress transfer in a graphene monolayer nanocomposite. <i>Advanced Materials</i> , 2010 , 22, 2694-7	24	465
36	Raman-scattering measurements and first-principles calculations of strain-induced phonon shifts in monolayer MoS ₂ . <i>Physical Review B</i> , 2013 , 87,	3.3	417
35	Tunable metal-insulator transition in double-layer graphene heterostructures. <i>Nature Physics</i> , 2011 , 7, 958-961	16.2	417
34	Subjecting a graphene monolayer to tension and compression. <i>Small</i> , 2009 , 5, 2397-402	11	352
33	Electronic properties of graphene encapsulated with different two-dimensional atomic crystals. <i>Nano Letters</i> , 2014 , 14, 3270-6	11.5	345
32	Singular phase nano-optics in plasmonic metamaterials for label-free single-molecule detection. <i>Nature Materials</i> , 2013 , 12, 304-9	27	311
31	Compression behavior of single-layer graphenes. <i>ACS Nano</i> , 2010 , 4, 3131-8	16.7	257

30	Raman 2D-band splitting in graphene: theory and experiment. <i>ACS Nano</i> , 2011 , 5, 2231-9	16.7	228
29	Optimizing the reinforcement of polymer-based nanocomposites by graphene. <i>ACS Nano</i> , 2012 , 6, 2086-95	16.7	217
28	Interaction phenomena in graphene seen through quantum capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3282-6	11.5	197
27	Control of radiation damage in MoS(2) by graphene encapsulation. <i>ACS Nano</i> , 2013 , 7, 10167-74	16.7	187
26	Graphene-protected copper and silver plasmonics. <i>Scientific Reports</i> , 2014 , 4, 5517	4.9	143
25	Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. <i>Nature Physics</i> , 2014 , 10, 525-529	16.2	137
24	Strain mapping in a graphene monolayer nanocomposite. <i>ACS Nano</i> , 2011 , 5, 3079-84	16.7	127
23	Doping mechanisms in graphene-MoS2 hybrids. <i>Applied Physics Letters</i> , 2013 , 103, 251607	3.4	95
22	Raman fingerprint of aligned graphene/h-BN superlattices. <i>Nano Letters</i> , 2013 , 13, 5242-6	11.5	83
21	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 8337	17.4	70
20	Quantum capacitance measurements of electron-hole asymmetry and next-nearest-neighbor hopping in graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	66
19	Reversible loss of Bernal stacking during the deformation of few-layer graphene in nanocomposites. <i>ACS Nano</i> , 2013 , 7, 7287-94	16.7	61
18	Phonon and structural changes in deformed Bernal stacked bilayer graphene. <i>Nano Letters</i> , 2012 , 12, 687-93	11.5	58
17	Landau level spectroscopy of electron-electron interactions in graphene. <i>Physical Review Letters</i> , 2015 , 114, 126804	7.4	49
16	Surface Hydrogenation and Optics of a Graphene Sheet Transferred onto a Plasmonic Nanoarray. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3882-3887	3.8	48
15	Non-invasive transmission electron microscopy of vacancy defects in graphene produced by ion irradiation. <i>Nanoscale</i> , 2014 , 6, 6569-76	7.7	45
14	Electrical and optical characterization of atomically thin WS ₂ . <i>Dalton Transactions</i> , 2014 , 43, 10388-91	4.3	43
13	Nanoscale electron diffraction and plasmon spectroscopy of single- and few-layer boron nitride. <i>Physical Review B</i> , 2012 , 85,	3.3	41

12	Field-effect control of tunneling barrier height by exploiting graphene's low density of states. <i>Journal of Applied Physics</i> , 2013 , 113, 136502	2.5	31
11	External magnetic field effect on plume images and X-ray emission from a nanosecond laser produced plasma. <i>Laser and Particle Beams</i> , 2008 , 26, 217-224	0.9	29
10	Atomic Structure of Graphene and h-BN Layers and Their Interactions with Metals 2013 ,		9
9	Resistive coupling of localized plasmon resonances in metallic nanostripes through a graphene layer. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 114002	1.7	6
8	Imaging Two Dimensional Materials and their Heterostructures. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012028	0.3	5
7	Dielectric Properties of Multi-Layers Hexagonal Boron Nitride. <i>Materials Sciences and Applications</i> , 2020 , 11, 339-346	0.3	2
6	A mathematical modeling approach toward magnetic fluid hyperthermia of cancer and unfolding heating mechanism. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 1193	4.1	2
5	Creep strain and recovery analysis of polypropylene composites filled with graphene nano filler. <i>Polymer</i> , 2021 , 217, 123423	3.9	2
4	Intercalation in 2D MoS ₂ nanolayers by wet chemical synthesis for tuning optoelectronic properties. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	0
3	High Angle Dark Field Imaging of Two-Dimensional Crystals. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012077	0.3	
2	Metals on BN Studied by High Resolution Transmission Electron Microscopy. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012050	0.3	
1	Probing defects and impurity-induced electronic structure changes in single and double-layer hexagonal boron nitride sheets with STEM-EELS. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1526-1527	0.5	