

Rashid Jalil

List of Publications by Year in descending order

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49
papers

19,287
citations

109264

35
h-index

233338

45
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51
all docs

51
docs citations

51
times ranked

21823
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-Effect Tunneling Transistor Based on Vertical Graphene Heterostructures. <i>Science</i> , 2012, 335, 947-950.	6.0	2,268
2	Strong Light-Matter Interactions in Heterostructures of Atomically Thin Films. <i>Science</i> , 2013, 340, 1311-1314.	6.0	2,179
3	Uniaxial strain in graphene by Raman spectroscopy: G peak splitting, G Raman parameters, and sample orientation. <i>Physical Review B</i> , 2009, 79, .	1.1	1,662
4	Vertical field-effect transistor based on graphene-WS ₂ heterostructures for flexible and transparent electronics. <i>Nature Nanotechnology</i> , 2013, 8, 100-103.	15.6	1,543
5	Micrometer-Scale Ballistic Transport in Encapsulated Graphene at Room Temperature. <i>Nano Letters</i> , 2011, 11, 2396-2399.	4.5	1,440
6	Fluorographene: A Two-Dimensional Counterpart of Teflon. <i>Small</i> , 2010, 6, 2877-2884.	5.2	1,146
7	Cloning of Dirac fermions in graphene superlattices. <i>Nature</i> , 2013, 497, 594-597.	13.7	1,107
8	Hunting for Monolayer Boron Nitride: Optical and Raman Signatures. <i>Small</i> , 2011, 7, 465-468.	5.2	950
9	Cross-sectional imaging of individual layers and buried interfaces of graphene-based heterostructures and superlattices. <i>Nature Materials</i> , 2012, 11, 764-767.	13.3	796
10	Electron Tunneling through Ultrathin Boron Nitride Crystalline Barriers. <i>Nano Letters</i> , 2012, 12, 1707-1710.	4.5	724
11	Interfacial Stress Transfer in a Graphene Monolayer Nanocomposite. <i>Advanced Materials</i> , 2010, 22, 2694-2697.	11.1	551
12	Raman-scattering measurements and first-principles calculations of strain-induced phonon shifts in monolayer MoS ₂ . <i>Physical Review B</i> , 2013, 87, .	1.1	495
13	Tunable metal-insulator transition in double-layer graphene heterostructures. <i>Nature Physics</i> , 2011, 7, 958-961.	6.5	486
14	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2014, 14, 3270-3276.	4.5	433
15	Subjecting a Graphene Monolayer to Tension and Compression. <i>Small</i> , 2009, 5, 2397-2402.	5.2	400
16	Singular phase nano-optics in plasmonic metamaterials for label-free single-molecule detection. <i>Nature Materials</i> , 2013, 12, 304-309.	13.3	382
17	Compression Behavior of Single-Layer Graphenes. <i>ACS Nano</i> , 2010, 4, 3131-3138.	7.3	282
18	Raman 2D-Band Splitting in Graphene: Theory and Experiment. <i>ACS Nano</i> , 2011, 5, 2231-2239.	7.3	271

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19	Optimizing the Reinforcement of Polymer-Based Nanocomposites by Graphene. ACS Nano, 2012, 6, 2086-2095.	7.3	255
20	Interaction phenomena in graphene seen through quantum capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3282-3286.	3.3	239
21	Control of Radiation Damage in MoS ₂ by Graphene Encapsulation. ACS Nano, 2013, 7, 10167-10174.	7.3	237
22	Graphene-protected copper and silver plasmonics. Scientific Reports, 2014, 4, 5517.	1.6	217
23	Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. Nature Physics, 2014, 10, 525-529.	6.5	161
24	Strain Mapping in a Graphene Monolayer Nanocomposite. ACS Nano, 2011, 5, 3079-3084.	7.3	142
25	Doping mechanisms in graphene-MoS ₂ hybrids. Applied Physics Letters, 2013, 103, .	1.5	107
26	Raman Fingerprint of Aligned Graphene/h-BN Superlattices. Nano Letters, 2013, 13, 5242-5246.	4.5	102
27	Quantum capacitance measurements of electron-hole asymmetry and next-nearest-neighbor hopping in graphene. Physical Review B, 2013, 88, .	1.1	88
28	Extremely large magnetoresistance in few-layer graphene/boron nitride heterostructures. Nature Communications, 2015, 6, 8337.	5.8	86
29	Reversible Loss of Bernal Stacking during the Deformation of Few-Layer Graphene in Nanocomposites. ACS Nano, 2013, 7, 7287-7294.	7.3	68
30	Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene. Nano Letters, 2012, 12, 687-693.	4.5	65
31	Surface Hydrogenation and Optics of a Graphene Sheet Transferred onto a Plasmonic Nanoarray. Journal of Physical Chemistry C, 2012, 116, 3882-3887.	1.5	56
32	Electrical and optical characterization of atomically thin WS ₂ . Dalton Transactions, 2014, 43, 10388.	1.6	52
33	Landau Level Spectroscopy of Electron-Electron Interactions in Graphene. Physical Review Letters, 2015, 114, 126804.	2.9	52
34	Non-invasive transmission electron microscopy of vacancy defects in graphene produced by ion irradiation. Nanoscale, 2014, 6, 6569.	2.8	48
35	Nanoscale electron diffraction and plasmon spectroscopy of single- and few-layer boron nitride. Physical Review B, 2012, 85, .	1.1	46
36	Field-effect control of tunneling barrier height by exploiting graphene's low density of states. Journal of Applied Physics, 2013, 113, .	1.1	35

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37	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.	0.4	30
38	Creep strain and recovery analysis of polypropylene composites filled with graphene nano filler. <i>Polymer</i> , 2021, 217, 123423.	1.8	14
39	A mathematical modeling approach toward magnetic fluid hyperthermia of cancer and unfolding heating mechanism. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 1193-1219.	2.0	12
40	Atomic Structure of Graphene and h-BN Layers and Their Interactions with Metals. , 0, , .		10
41	Resistive coupling of localized plasmon resonances in metallic nanostripes through a graphene layer. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 114002.	1.0	9
42	Imaging Two Dimensional Materials and their Heterostructures. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012028.	0.3	8
43	Dielectric Properties of Multi-Layers Hexagonal Boron Nitride. <i>Materials Sciences and Applications</i> , 2020, 11, 339-346.	0.3	5
44	Intercalation in 2D MoS2 nanolayers by wet chemical synthesis for tuning optoelectronic properties. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 17-27.	1.6	3
45	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.	0.2	0
46	Metals on BN Studied by High Resolution Transmission Electron Microscopy. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012050.	0.3	0
47	Resistive coupling of localized plasmon resonances in metallic nanostripes through a graphene layer. , 2012, , .		0
48	High Angle Dark Field Imaging of Two-Dimensional Crystals. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012077.	0.3	0
49	Extremely sensitive magnetoresistance sensors using few-layer graphene/boron-nitride. , 2017, , .		0