

Vishal Panchal

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.

38
papers

1,009
citations

18
h-index

31
g-index

40
ext. papers

1,142
ext. citations

6.1
avg, IF

4.26
L-index

#	Paper	IF	Citations
38	In-depth microscopic characterisation of the weld faying interface revealing stress-induced metallurgical transformations during friction stir spot welding. <i>International Journal of Machine Tools and Manufacture</i> , 2021 , 164, 103716	9.4	7
37	Towards standardisation of contact and contactless electrical measurements of CVD graphene at the macro-, micro- and nano-scale. <i>Scientific Reports</i> , 2020 , 10, 3223	4.9	6
36	A Self-Assembled Graphene Ribbon Device on SiC. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 204-212	4	0
35	Selective phase growth and precise-layer control in MoTe ₂ . <i>Communications Materials</i> , 2020 , 1,	6	10
34	Highly resonant graphene plasmon hotspots in complex nanoresonator geometries. <i>2D Materials</i> , 2019 , 6, 021003	5.9	
33	Comparison of active and passive methods for the infrared scanning near-field microscopy. <i>Applied Physics Letters</i> , 2019 , 114, 153101	3.4	7
32	Qualitative analysis of scanning gate microscopy on epitaxial graphene. <i>2D Materials</i> , 2019 , 6, 025023	5.9	2
31	Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures. <i>2D Materials</i> , 2019 , 6, 015022	5.9	8
30	Detection of Ultralow Concentration NO in Complex Environment Using Epitaxial Graphene Sensors. <i>ACS Sensors</i> , 2018 , 3, 1666-1674	9.2	34
29	Electrical Homogeneity Mapping of Epitaxial Graphene on Silicon Carbide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31641-31647	9.5	18
28	Hydrogen-Assisted Epitaxial Growth of Monolayer Tungsten Disulfide and Seamless Grain Stitching. <i>Chemistry of Materials</i> , 2018 , 30, 403-411	9.6	38
27	Water on graphene: review of recent progress. <i>2D Materials</i> , 2018 , 5, 022001	5.9	88
26	Confocal laser scanning microscopy for rapid optical characterization of graphene. <i>Communications Physics</i> , 2018 , 1,	5.4	24
25	Surface-Mediated Aligned Growth of Monolayer MoS ₂ and In-Plane Heterostructures with Graphene on Sapphire. <i>ACS Nano</i> , 2018 , 12, 10032-10044	16.7	42
24	Tuning epitaxial graphene sensitivity to water by hydrogen intercalation. <i>Nanoscale</i> , 2017 , 9, 3440-3448	7.7	16
23	Observation of Coulomb blockade in nanostructured epitaxial bilayer graphene on SiC. <i>Carbon</i> , 2017 , 119, 426-430	10.4	1
22	Calibration of multi-layered probes with low/high magnetic moments. <i>Scientific Reports</i> , 2017 , 7, 7224	4.9	14

21	Excitonic Effects in Tungsten Disulfide Monolayers on Two-Layer Graphene. <i>ACS Nano</i> , 2016 , 10, 7840-6	16.7	34
20	Atmospheric doping effects in epitaxial graphene: correlation of local and global electrical studies. <i>2D Materials</i> , 2016 , 3, 015006	5.9	37
19	Visualization of Grain Structure and Boundaries of Polycrystalline Graphene and Two-Dimensional Materials by Epitaxial Growth of Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2016 , 10, 3233-40	16.7	52
18	Effects of humidity on the electronic properties of graphene prepared by chemical vapour deposition. <i>Carbon</i> , 2016 , 103, 273-280	10.4	49
17	Modeling of graphene Hall effect sensors for microbead detection. <i>Journal of Applied Physics</i> , 2015 , 117, 17B732	2.5	6
16	Low contact resistance in epitaxial graphene devices for quantum metrology. <i>AIP Advances</i> , 2015 , 5, 087134	13.4	13
15	Multifunctional semiconductor micro-Hall devices for magnetic, electric, and photo-detection. <i>Applied Physics Letters</i> , 2015 , 107, 233504	3.4	4
14	Water Affinity to Epitaxial Graphene: The Impact of Layer Thickness. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500252	4.6	26
13	Carrier type inversion in quasi-free standing graphene: studies of local electronic and structural properties. <i>Scientific Reports</i> , 2015 , 5, 10505	4.9	45
12	Visualisation of edge effects in side-gated graphene nanodevices. <i>Scientific Reports</i> , 2014 , 4, 5881	4.9	26
11	Magnetic scanning gate microscopy of graphene Hall devices (invited). <i>Journal of Applied Physics</i> , 2014 , 115, 172606	2.5	20
10	Local electric field screening in bi-layer graphene devices. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	20
9	Magnetic Scanning Probe Calibration Using Graphene Hall Sensor. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3520-3523	2	17
8	Express optical analysis of epitaxial graphene on SiC: impact of morphology on quantum transport. <i>Nano Letters</i> , 2013 , 13, 4217-23	11.5	44
7	Epitaxial Graphene and GrapheneBased Devices Studied by Electrical Scanning Probe Microscopy. <i>Crystals</i> , 2013 , 3, 191-233	2.3	60
6	Epitaxial Graphene Sensors for Detection of Small Magnetic Moments. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 97-100	2	11
5	Standardization of surface potential measurements of graphene domains. <i>Scientific Reports</i> , 2013 , 3, 2597	4.9	164
4	Surface potential variations in epitaxial graphene devices investigated by Electrostatic Force Spectroscopy 2012 ,		5

- 3 Small epitaxial graphene devices for magnetosensing applications. *Journal of Applied Physics*, **2012**, 111, 07E509 2.5 42
- 2 Carbon Nanotube Bolometer: Transport Properties and Noise Characteristics. *Solid State Phenomena*, **2012**, 190, 510-513 0.4 1
- 1 Ultrasmall particle detection using a submicron Hall sensor. *Journal of Applied Physics*, **2010**, 107, 09E708.5 18