

Wei-Hua Wang

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47
papers

1,521
citations

20
h-index

38
g-index

49
ext. papers

1,727
ext. citations

7.2
avg, IF

4.08
L-index

#	Paper	IF	Citations
47	High-Mobility InSe Transistors: The Role of Surface Oxides. <i>ACS Nano</i> , 2017 , 11, 7362-7370	16.7	132
46	Electrical detection of spin precession in single layer graphene spin valves with transparent contacts. <i>Applied Physics Letters</i> , 2009 , 94, 222109	3.4	122
45	Electron-hole asymmetry of spin injection and transport in single-layer graphene. <i>Physical Review Letters</i> , 2009 , 102, 137205	7.4	113
44	Spin transport and relaxation in graphene. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 369-381	3.8	112
43	High-quality graphene p-n junctions via resist-free fabrication and solution-based noncovalent functionalization. <i>ACS Nano</i> , 2011 , 5, 2051-9	16.7	111
42	Magnetotransport properties of mesoscopic graphite spin valves. <i>Physical Review B</i> , 2008 , 77,	3.3	98
41	Extrinsic Origin of Persistent Photoconductivity in Monolayer MoS ₂ Field Effect Transistors. <i>Scientific Reports</i> , 2015 , 5, 11472	4.9	94
40	Biologically inspired graphene-chlorophyll phototransistors with high gain. <i>Carbon</i> , 2013 , 63, 23-29	10.4	83
39	Self-encapsulated doping of n-type graphene transistors with extended air stability. <i>ACS Nano</i> , 2012 , 6, 6215-21	16.7	65
38	Transport/magnetotransport of high-performance graphene transistors on organic molecule-functionalized substrates. <i>Nano Letters</i> , 2012 , 12, 964-9	11.5	54
37	Enhancement of spin coherence using Q-factor engineering in semiconductor microdisc lasers. <i>Nature Materials</i> , 2006 , 5, 261-4	27	53
36	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2008 , 93, 183107	3.4	40
35	Transparent, Wearable, Broadband, and Highly Sensitive Upconversion Nanoparticles and Graphene-Based Hybrid Photodetectors. <i>ACS Photonics</i> , 2018 , 5, 2336-2347	6.3	38
34	Surface Oxidation Doping to Enhance Photogenerated Carrier Separation Efficiency for Ultrahigh Gain Indium Selenide Photodetector. <i>ACS Photonics</i> , 2017 , 4, 2930-2936	6.3	34
33	Precisely Controlled Ultrastrong Photoinduced Doping at Graphene-Heterostructures Assisted by Trap-State-Mediated Charge Transfer. <i>Advanced Materials</i> , 2015 , 27, 7809-15	24	34
32	Highly Sensitive, Visible Blind, Wearable, and Omnidirectional Near-Infrared Photodetectors. <i>ACS Nano</i> , 2018 , 12, 9596-9607	16.7	31
31	Efficient Numerical Schemes for Electronic States in Coupled Quantum Dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3695-3709	1.3	28

30	Transport in disordered monolayer MoS ₂ nanoflakes--evidence for inhomogeneous charge transport. <i>Nanotechnology</i> , 2014 , 25, 375201	3.4	23
29	Nonlinear bandgap opening behavior of BN co-doped graphene. <i>Carbon</i> , 2016 , 107, 857-864	10.4	21
28	Static and dynamic spectroscopy of (Al,Ga)As/GaAs microdisk lasers with interface fluctuation quantum dots. <i>Physical Review B</i> , 2005 , 71,	3.3	21
27	High-Performance InSe Transistors with Ohmic Contact Enabled by Nonrectifying Barrier-Type Indium Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33450-33456	9.5	20
26	Oxidation-induced biquadratic coupling in Co/Fe/MgO/Fe(001). <i>Physical Review B</i> , 2009 , 79,	3.3	19
25	Tunable Photoinduced Carrier Transport of a Black Phosphorus Transistor with Extended Stability Using a Light-Sensitized Encapsulated Layer. <i>ACS Photonics</i> , 2016 , 3, 1102-1108	6.3	16
24	Observation of strain effect on the suspended graphene by polarized Raman spectroscopy. <i>Nanoscale Research Letters</i> , 2012 , 7, 533	5	14
23	Revealing anisotropic strain in exfoliated graphene by polarized Raman spectroscopy. <i>Nanoscale</i> , 2013 , 5, 9626-32	7.7	13
22	Inversion of ferromagnetic proximity polarization by MgO interlayers. <i>Physical Review Letters</i> , 2008 , 100, 237205	7.4	13
21	Layer-dependent morphologies of silver on n-layer graphene. <i>Nanoscale Research Letters</i> , 2012 , 7, 618	5	12
20	Environment-insensitive and gate-controllable photocurrent enabled by bandgap engineering of MoS junctions. <i>Scientific Reports</i> , 2017 , 7, 44768	4.9	10
19	Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19840-19854	9.5	10
18	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. <i>ACS Photonics</i> , 2016 , 3, 985-991	6.3	10
17	Residue-free fabrication of high-performance graphene devices by patterned PMMA stencil mask. <i>AIP Advances</i> , 2014 , 4, 067129	1.5	9
16	Oxidized-monolayer tunneling barrier for strong Fermi-level depinning in layered InSe transistors. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	8
15	Surface-enhanced Raman scattering of suspended monolayer graphene. <i>Nanoscale Research Letters</i> , 2013 , 8, 480	5	7
14	Spin transport in graphite and graphene spin valves 2009 ,		7
13	Optical properties of Zn _{0.5} Cd _{0.5} Se thin films grown on InP by molecular beam epitaxy. <i>Solid State Communications</i> , 2003 , 128, 461-466	1.6	7

12	Influence of Oxygen Vacancies on the Frictional Properties of Nanocrystalline Zinc Oxide Thin Films in Ambient Conditions. <i>Langmuir</i> , 2017 , 33, 8362-8371	4	6
11	Demonstration of distinct semiconducting transport characteristics of monolayer graphene functionalized via plasma activation of substrate surfaces. <i>Carbon</i> , 2015 , 93, 353-360	10.4	5
10	Observation of quantum Hall plateau-plateau transition and scaling behavior of the zeroth Landau level in graphene p-n junctions. <i>Physical Review B</i> , 2016 , 93,	3.3	4
9	Probing 2D sub-bands of bi-layer graphene. <i>RSC Advances</i> , 2014 , 4, 51067-51071	3.7	4
8	Exciton localization in Mg _x Zn _y Cd _{1-x-y} Se alloy. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 495-498	1.3	4
7	Fabrication and Characterization of Modulation-Doped ZnSe/(Zn,Cd)Se (110) Quantum Wells: A New System for Spin Coherence Studies. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005 , 18, 185-188		4
6	Ultrahighly Photosensitive and Highly Stretchable Rippled Structure Photodetectors Based on Perovskite Nanocrystals and Graphene. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1517-1526	4	3
5	Probing substrate influence on graphene by analyzing Raman lineshapes. <i>Nanoscale Research Letters</i> , 2014 , 9, 64	5	3
4	Probing the optical characteristics of MoS ₂ under external electrical fields using polarized Raman spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 385303	3	3
3	Temperature dependence of the energy gap of Mg _x Zn _y Cd _{1-x-y} Se alloy. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, R5-R7	1.3	2
2	Magnetotransport in hybrid InSe/monolayer graphene on SiC. <i>Nanotechnology</i> , 2021 , 32, 155704	3.4	1
1	Spatially and Precisely Controlled Large-Scale and Persistent Optical Gating in a TiO ₂ -MoS ₂ Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38319-38325	9.5	0