

Wei-Hua Wang

List of Publications by Year in descending order

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49
papers

1,879
citations

331642

21
h-index

254170

43
g-index

49
all docs

49
docs citations

49
times ranked

3369
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Mobility InSe Transistors: The Role of Surface Oxides. ACS Nano, 2017, 11, 7362-7370.	14.6	177
2	Electrical detection of spin precession in single layer graphene spin valves with transparent contacts. Applied Physics Letters, 2009, 94, .	3.3	141
3	Electron-Hole Asymmetry of Spin Injection and Transport in Single-Layer Graphene. Physical Review Letters, 2009, 102, 137205.	7.8	130
4	Spin transport and relaxation in graphene. Journal of Magnetism and Magnetic Materials, 2012, 324, 369-381.	2.3	128
5	High-Quality Graphene n Junctions via Resist-free Fabrication and Solution-Based Noncovalent Functionalization. ACS Nano, 2011, 5, 2051-2059.	14.6	116
6	Extrinsic Origin of Persistent Photoconductivity in Monolayer MoS ₂ Field Effect Transistors. Scientific Reports, 2015, 5, 11472.	3.3	110
7	Magnetotransport properties of mesoscopic graphite spin valves. Physical Review B, 2008, 77, .	3.2	104
8	Biologically inspired graphene-chlorophyll phototransistors with high gain. Carbon, 2013, 63, 23-29.	10.3	100
9	Self-Encapsulated Doping of n-Type Graphene Transistors with Extended Air Stability. ACS Nano, 2012, 6, 6215-6221.	14.6	76
10	Enhancement of spin coherence using Q-factor engineering in semiconductor microdisc lasers. Nature Materials, 2006, 5, 261-264.	27.5	69
11	Transport/Magnetotransport of High-Performance Graphene Transistors on Organic Molecule-Functionalized Substrates. Nano Letters, 2012, 12, 964-969.	9.1	62
12	Highly Sensitive, Visible Blind, Wearable, and Omnidirectional Near-Infrared Photodetectors. ACS Nano, 2018, 12, 9596-9607.	14.6	62
13	Transparent, Wearable, Broadband, and Highly Sensitive Upconversion Nanoparticles and Graphene-Based Hybrid Photodetectors. ACS Photonics, 2018, 5, 2336-2347.	6.6	59
14	Surface Oxidation Doping to Enhance Photogenerated Carrier Separation Efficiency for Ultrahigh Gain Indium Selenide Photodetector. ACS Photonics, 2017, 4, 2930-2936.	6.6	44
15	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. Applied Physics Letters, 2008, 93, .	3.3	43
16	Precisely Controlled Ultrastrong Photoinduced Doping at Graphene Heterostructures Assisted by Trap State-Mediated Charge Transfer. Advanced Materials, 2015, 27, 7809-7815.	21.0	39
17	High-Performance InSe Transistors with Ohmic Contact Enabled by Nonrectifying Barrier-Type Indium Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 33450-33456.	8.0	35
18	Efficient Numerical Schemes for Electronic States in Coupled Quantum Dots. Journal of Nanoscience and Nanotechnology, 2008, 8, 3695-3709.	0.9	31

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19	Transport in disordered monolayer MoS ₂ nanoflakes—evidence for inhomogeneous charge transport. <i>Nanotechnology</i> , 2014, 25, 375201.	2.6	29
20	Static and dynamic spectroscopy of (Al,Ga)As/GaAs microdisk lasers with interface fluctuation quantum dots. <i>Physical Review B</i> , 2005, 71, .	3.2	24
21	Nonlinear bandgap opening behavior of BN co-doped graphene. <i>Carbon</i> , 2016, 107, 857-864.	10.3	23
22	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.	8.0	21
23	Oxidation-induced biquadratic coupling in Co/Fe/MgO/Fe(001). <i>Physical Review B</i> , 2009, 79, .	3.2	20
24	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.	6.6	20
25	Revealing anisotropic strain in exfoliated graphene by polarized Raman spectroscopy. <i>Nanoscale</i> , 2013, 5, 9626.	5.6	19
26	Oxidized-monolayer tunneling barrier for strong Fermi-level depinning in layered InSe transistors. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	7.9	19
27	Observation of strain effect on the suspended graphene by polarized Raman spectroscopy. <i>Nanoscale Research Letters</i> , 2012, 7, 533.	5.7	17
28	Inversion of Ferromagnetic Proximity Polarization by MgO Interlayers. <i>Physical Review Letters</i> , 2008, 100, 237205.	7.8	14
29	Influence of Oxygen Vacancies on the Frictional Properties of Nanocrystalline Zinc Oxide Thin Films in Ambient Conditions. <i>Langmuir</i> , 2017, 33, 8362-8371.	3.5	14
30	Layer-dependent morphologies of silver on n-layer graphene. <i>Nanoscale Research Letters</i> , 2012, 7, 618.	5.7	13
31	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. <i>ACS Photonics</i> , 2016, 3, 985-991.	6.6	12
32	Surface-enhanced Raman scattering of suspended monolayer graphene. <i>Nanoscale Research Letters</i> , 2013, 8, 480.	5.7	11
33	Residue-free fabrication of high-performance graphene devices by patterned PMMA stencil mask. <i>AIP Advances</i> , 2014, 4, .	1.3	11
34	Environment-insensitive and gate-controllable photocurrent enabled by bandgap engineering of MoS ₂ junctions. <i>Scientific Reports</i> , 2017, 7, 44768.	3.3	11
35	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	11
36	Spin transport in graphite and graphene spin valves. <i>Proceedings of SPIE</i> , 2009, , .	0.8	8

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37	Optical properties of Zn _{0.5} Cd _{0.5} Se thin films grown on InP by molecular beam epitaxy. Solid State Communications, 2003, 128, 461-466.	1.9	7
38	Probing substrate influence on graphene by analyzing Raman lineshapes. Nanoscale Research Letters, 2014, 9, 64.	5.7	7
39	Demonstration of distinct semiconducting transport characteristics of monolayer graphene functionalized via plasma activation of substrate surfaces. Carbon, 2015, 93, 353-360.	10.3	7
40	Probing 2D sub-bands of bi-layer graphene. RSC Advances, 2014, 4, 51067-51071.	3.6	5
41	Observation of quantum Hall plateau-plateau transition and scaling behavior of the zeroth Landau level in graphene. Physical Review B, 2016, 93, .	3.2	5
42	Probing the optical characteristics of MoS ₂ under external electrical fields using polarized Raman spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 385303.	2.8	5
43	Phase Modulation of Self-Gating in Ionic Liquid-Functionalized InSe Field-Effect Transistors. Nano Letters, 2022, 22, 2270-2276.	9.1	5
44	Exciton localization in Mg _x Zn _y Cd _{1-x-y} Se alloy. Physica Status Solidi (B): Basic Research, 2004, 241, 495-498.	1.5	4
45	Fabrication and Characterization of Modulation-Doped ZnSe/(Zn,Cd)Se (110) Quantum Wells: A New System for Spin Coherence Studies. Journal of Superconductivity and Novel Magnetism, 2005, 18, 185-188.	0.5	4
46	Magnetotransport in hybrid InSe/monolayer graphene on SiC. Nanotechnology, 2021, 32, 155704.	2.6	3
47	Temperature dependence of the energy gap of Mg _x Zn _y Cd _{1-x-y} Se alloy. Physica Status Solidi (B): Basic Research, 2004, 241, R5-R7.	1.5	2
48	Spatially and Precisely Controlled Large-Scale and Persistent Optical Gating in a TiO ₂ /MoS ₂ Heterostructure. ACS Applied Materials & Interfaces, 2018, 10, 38319-38325.	8.0	2
49	Visible Blind, Wearable, and Omnidirectional Near Infrared Photodetector: A Filterless Approach. , 2019, , .		0