

Young-Jun Yu

List of Publications by Citations

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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.

50
papers

4,845
citations

21
h-index

55
g-index

55
ext. papers

5,397
ext. citations

7.2
avg, IF

5.12
L-index

#	Paper	IF	Citations
50	Tuning the graphene work function by electric field effect. <i>Nano Letters</i> , 2009 , 9, 3430-4	11.5	1073
49	Flexible and transparent MoS ₂ field-effect transistors on hexagonal boron nitride-graphene heterostructures. <i>ACS Nano</i> , 2013 , 7, 7931-6	16.7	800
48	Atmospheric oxygen binding and hole doping in deformed graphene on a SiO ₂ substrate. <i>Nano Letters</i> , 2010 , 10, 4944-51	11.5	615
47	Controlled charge trapping by molybdenum disulphide and graphene in ultrathin heterostructured memory devices. <i>Nature Communications</i> , 2013 , 4, 1624	17.4	504
46	Electron tunneling through atomically flat and ultrathin hexagonal boron nitride. <i>Applied Physics Letters</i> , 2011 , 99, 243114	3.4	348
45	Label-free single-molecule detection of DNA-hybridization kinetics with a carbon nanotube field-effect transistor. <i>Nature Nanotechnology</i> , 2011 , 6, 126-32	28.7	287
44	Single-gate bandgap opening of bilayer graphene by dual molecular doping. <i>Advanced Materials</i> , 2012 , 24, 407-11	24	212
43	Water-gated charge doping of graphene induced by mica substrates. <i>Nano Letters</i> , 2012 , 12, 648-54	11.5	146
42	Flexible and transparent gas molecule sensor integrated with sensing and heating graphene layers. <i>Small</i> , 2014 , 10, 3685-91	11	123
41	Tunable Electrical and Optical Characteristics in Monolayer Graphene and Few-Layer MoS ₂ Heterostructure Devices. <i>Nano Letters</i> , 2015 , 15, 5017-24	11.5	122
40	Epitaxial Growth of Thin Ferroelectric Polymer Films on Graphene Layer for Fully Transparent and Flexible Nonvolatile Memory. <i>Nano Letters</i> , 2016 , 16, 334-40	11.5	101
39	Thickness-dependent Schottky barrier height of MoS field-effect transistors. <i>Nanoscale</i> , 2017 , 9, 6151-6157	15.7	88
38	High-resolution spatial mapping of the temperature distribution of a Joule self-heated graphene nanoribbon. <i>Applied Physics Letters</i> , 2011 , 99, 183105	3.4	61
37	Organic Field Effect Transistors Based on Graphene and Hexagonal Boron Nitride Heterostructures. <i>Advanced Functional Materials</i> , 2014 , 24, 5157-5163	15.6	57
36	Electrically integrated SU-8 clamped graphene drum resonators for strain engineering. <i>Applied Physics Letters</i> , 2013 , 102, 153101	3.4	51
35	Graphene-based plasmonic photodetector for photonic integrated circuits. <i>Optics Express</i> , 2014 , 22, 8033-8	3.3	33
34	Graphene transparent electrode for enhanced optical power and thermal stability in GaN light-emitting diodes. <i>Nanotechnology</i> , 2013 , 24, 075202	3.4	24

33	Reliable seawater battery anode: controlled sodium nucleation via deactivation of the current collector surface. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19672-19680	13	23
32	Layer number identification of CVD-grown multilayer graphene using Si peak analysis. <i>Scientific Reports</i> , 2018 , 8, 571	4.9	22
31	Epitaxially Self-Assembled Alkane Layers for Graphene Electronics. <i>Advanced Materials</i> , 2017 , 29, 16039-16044	2.1	21
30	Gas molecule sensing of van der Waals tunnel field effect transistors. <i>Nanoscale</i> , 2017 , 9, 18644-18650	7.7	21
29	Focusing characteristics of optical fiber axicon microlens for near-field spectroscopy: Dependence of tip apex angle. <i>Optics Communications</i> , 2006 , 267, 264-270	2	16
28	Facile fabrication of properties-controllable graphene sheet. <i>Scientific Reports</i> , 2016 , 6, 24525	4.9	15
27	Temperature-dependent resonance energy transfer from semiconductor quantum wells to graphene. <i>Nano Letters</i> , 2015 , 15, 896-902	11.5	11
26	Near-field spectroscopy of bimodal size distribution of InAs/AlGaAs single quantum dots. <i>Applied Physics Letters</i> , 2005 , 87, 143108	3.4	8
25	High-resolution near-field spectroscopy of InAs single quantum dots at 70 K. <i>Applied Physics Letters</i> , 2003 , 83, 3024-3026	3.4	8
24	Flexible Electronics: Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers (Small 18/2014). <i>Small</i> , 2014 , 10, 3812-3812	11	7
23	Direct Mapping of the Gate Response of a Multilayer WSe ₂ /MoS ₂ Heterostructure with Locally Different Degrees of Charge Depletion. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4010-4016	6.4	5
22	Near-field optical study of highly dense laterally coupled InAs single quantum dots. <i>Applied Physics Letters</i> , 2007 , 91, 041117	3.4	5
21	Facile Dry Surface Cleaning of Graphene by UV Treatment. <i>Journal of the Korean Physical Society</i> , 2018 , 72, 1045-1051	0.6	4
20	Electrochemical Doping of Graphene with H ₂ SO ₄ Electrolyte. <i>Journal of the Korean Physical Society</i> , 2019 , 74, 132-135	0.6	3
19	Gate-tuned conductance of graphene-ribbon junctions with nanoscale width variations. <i>Nanoscale</i> , 2019 , 11, 4735-4742	7.7	3
18	Self-assembled (In _{1-x} Mnx)As diluted magnetic semiconductor quantum dots with high T _c . <i>Current Applied Physics</i> , 2004 , 4, 213-216	2.6	3
17	Redox Reaction Investigation of Graphene Nanoribbon. <i>Applied Science and Convergence Technology</i> , 2018 , 27, 35-37	0.8	3
16	Transparent conducting films of silver hybrid films formed by near-field electrospinning. <i>Materials Letters</i> , 2016 , 185, 139-142	3.3	2

15	Near-field optical observation of electric-field-induced fluorescence switching in laterally coupled quantum dots. <i>Physical Review B</i> , 2010 , 82,	3.3	2
14	Incident Polarization Independence of Topographic Artifacts in Scattering-Type Near-Field Microscopy. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 4839-4842	1.4	2
13	Surface and Electrical Characterization of Electrochemically Oxidized Graphene. <i>Applied Science and Convergence Technology</i> , 2019 , 28, 51-54	0.8	2
12	Infrared study of large scale h-BN film and graphene/h-BN heterostructure. <i>Applied Physics Letters</i> , 2016 , 108, 241910	3.4	2
11	Systematic Design and Demonstration of Multi-Bit Generation in Layered Materials Heterostructures Floating-Gate Memory. <i>Advanced Functional Materials</i> , 2105472	15.6	2
10	Direct Diagnosis of the Position of Electric Failure on a Graphene Nanoribbon by using Scanning Thermal Microscopy. <i>Journal of the Korean Physical Society</i> , 2020 , 76, 727-730	0.6	1
9	Graphene laminated Cu nanoparticle arrays by spontaneous formation through dewetting. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 64, 367-372	6.3	1
8	Convection-based realtime polymerase chain reaction (PCR) utilizing transparent graphene heaters 2014 ,		1
7	Graphene-based photonic waveguide devices 2014 ,		1
6	Position Dependent Resistance and Doping Condition on a Graphene Flake. <i>Applied Science and Convergence Technology</i> , 2020 , 29, 180-182	0.8	1
5	Charge Carrier Density Tuning of Graphene by Water Gating. <i>Applied Science and Convergence Technology</i> , 2019 , 28, 226-228	0.8	1
4	Current Tunneling Characterization of Oxidized Black Phosphorus by Graphite Thin Film Electrodes. <i>Applied Science and Convergence Technology</i> , 2021 , 30, 78-80	0.8	1
3	Band-edge exciton transitions temperature in multiple stacked self-assembled (In _{1-x} Mnx)As quantum dot arrays. <i>Solid State Communications</i> , 2005 , 136, 81-84	1.6	
2	Surface Condition and Conductance of Graphene in Redox Process. <i>Applied Science and Convergence Technology</i> , 2021 , 30, 183-185	0.8	
1	Systematic Design and Demonstration of Multi-Bit Generation in Layered Materials Heterostructures Floating-Gate Memory (Adv. Funct. Mater. 43/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170317	15.6	