Young-Jun Yu

List of Publications by Year in Descending Order

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	Surface Condition and Conductance of Graphene in Redox Process. *Applied Science and Convergence Technology*, **2021**, 30, 183-185	0.8	
49	Systematic Design and Demonstration of Multi-Bit Generation in Layered Materials Heterostructures Floating-Gate Memory (Adv. Funct. Mater. 43/2021). *Advanced Functional Materials*, **2021**, 31, 2170317	15.6	
48	Current Tunneling Characterization of Oxidized Black Phosphorus by Graphite Thin Film Electrodes. *Applied Science and Convergence Technology*, **2021**, 30, 78-80	0.8	1
47	Direct Diagnosis of the Position of Electric Failure on a Graphene Nanoribbon by using Scanning Thermal Microscopy. *Journal of the Korean Physical Society*, **2020**, 76, 727-730	0.6	1
46	Position Dependent Resistance and Doping Condition on a Graphene Flake. *Applied Science and Convergence Technology*, **2020**, 29, 180-182	0.8	1
45	Electrochemical Doping of Graphene with H2SO4 Electrolyte. *Journal of the Korean Physical Society*, **2019**, 74, 132-135	0.6	3
44	Direct Mapping of the Gate Response of a Multilayer WSe/MoS Heterostructure with Locally Different Degrees of Charge Depletion. *Journal of Physical Chemistry Letters*, **2019**, 10, 4010-4016	6.4	5
43	Gate-tuned conductance of graphene-ribbon junctions with nanoscale width variations. *Nanoscale*, **2019**, 11, 4735-4742	7.7	3
42	Surface and Electrical Characterization of Electrochemically Oxidized Graphene. *Applied Science and Convergence Technology*, **2019**, 28, 51-54	0.8	2
41	Charge Carrier Density Tuning of Graphene by Water Gating. *Applied Science and Convergence Technology*, **2019**, 28, 226-228	0.8	1
40	Graphene laminated Cu nanoparticle arrays by spontaneous formation through dewetting. *Journal of Industrial and Engineering Chemistry*, **2018**, 64, 367-372	6.3	1
39	Layer number identification of CVD-grown multilayer graphene using Si peak analysis. *Scientific Reports*, **2018**, 8, 571	4.9	22
38	Facile Dry Surface Cleaning of Graphene by UV Treatment. *Journal of the Korean Physical Society*, **2018**, 72, 1045-1051	0.6	4
37	Redox Reaction Investigation of Graphene Nanoribbon. *Applied Science and Convergence Technology*, **2018**, 27, 35-37	0.8	3
36	Reliable seawater battery anode: controlled sodium nucleation via deactivation of the current collector surface. *Journal of Materials Chemistry A*, **2018**, 6, 19672-19680	13	23
35	Thickness-dependent Schottky barrier height of MoS field-effect transistors. *Nanoscale*, **2017**, 9, 6151-6157	7.7	88
34	Epitaxially Self-Assembled Alkane Layers for Graphene Electronics. *Advanced Materials*, **2017**, 29, 1603925	24	21

33	Gas molecule sensing of van der Waals tunnel field effect transistors. *Nanoscale*, **2017**, 9, 18644-18650	7.7	21
32	Transparent conducting films of silver hybrid films formed by near-field electrospinning. *Materials Letters*, **2016**, 185, 139-142	3.3	2
31	Epitaxial Growth of Thin Ferroelectric Polymer Films on Graphene Layer for Fully Transparent and Flexible Nonvolatile Memory. *Nano Letters*, **2016**, 16, 334-40	11.5	101
30	Infrared study of large scale h-BN film and graphene/h-BN heterostructure. *Applied Physics Letters*, **2016**, 108, 241910	3.4	2
29	Facile fabrication of properties-controllable graphene sheet. *Scientific Reports*, **2016**, 6, 24525	4.9	15
28	Temperature-dependent resonance energy transfer from semiconductor quantum wells to graphene. *Nano Letters*, **2015**, 15, 896-902	11.5	11
27	Tunable Electrical and Optical Characteristics in Monolayer Graphene and Few-Layer MoS2 Heterostructure Devices. *Nano Letters*, **2015**, 15, 5017-24	11.5	122
26	Graphene-based plasmonic photodetector for photonic integrated circuits. *Optics Express*, **2014**, 22, 803-8	3.3	33
25	Flexible and transparent gas molecule sensor integrated with sensing and heating graphene layers. *Small*, **2014**, 10, 3685-91	11	123
24	Organic Field Effect Transistors Based on Graphene and Hexagonal Boron Nitride Heterostructures. *Advanced Functional Materials*, **2014**, 24, 5157-5163	15.6	57
23	Convection-based realtime polymerase chain reaction (PCR) utilizing transparent graphene heaters **2014**,		1
22	Flexible Electronics: Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers (Small 18/2014). *Small*, **2014**, 10, 3812-3812	11	7
21	Graphene-based photonic waveguide devices **2014**,		1
20	Graphene transparent electrode for enhanced optical power and thermal stability in GaN light-emitting diodes. *Nanotechnology*, **2013**, 24, 075202	3.4	24
19	Flexible and transparent MoS2 field-effect transistors on hexagonal boron nitride-graphene heterostructures. *ACS Nano*, **2013**, 7, 7931-6	16.7	800
18	Electrically integrated SU-8 clamped graphene drum resonators for strain engineering. *Applied Physics Letters*, **2013**, 102, 153101	3.4	51
17	Controlled charge trapping by molybdenum disulphide and graphene in ultrathin heterostructured memory devices. *Nature Communications*, **2013**, 4, 1624	17.4	504
16	Single-gate bandgap opening of bilayer graphene by dual molecular doping. *Advanced Materials*, **2012**, 24, 407-11	24	212

15	Water-gated charge doping of graphene induced by mica substrates. *Nano Letters*, **2012**, 12, 648-54	11.5	146
14	High-resolution spatial mapping of the temperature distribution of a Joule self-heated graphene nanoribbon. *Applied Physics Letters*, **2011**, 99, 183105	3.4	61
13	Label-free single-molecule detection of DNA-hybridization kinetics with a carbon nanotube field-effect transistor. *Nature Nanotechnology*, **2011**, 6, 126-32	28.7	287
12	Electron tunneling through atomically flat and ultrathin hexagonal boron nitride. *Applied Physics Letters*, **2011**, 99, 243114	3.4	348
11	Near-field optical observation of electric-field-induced fluorescence switching in laterally coupled quantum dots. *Physical Review B*, **2010**, 82,	3.3	2
10	Atmospheric oxygen binding and hole doping in deformed graphene on a SiO_2 substrate. *Nano Letters*, **2010**, 10, 4944-51	11.5	615
9	Tuning the graphene work function by electric field effect. *Nano Letters*, **2009**, 9, 3430-4	11.5	1073
8	Incident Polarization Independence of Topographic Artifacts in Scattering-Type Near-Field Microscopy. *Japanese Journal of Applied Physics*, **2008**, 47, 4839-4842	1.4	2
7	Near-field optical study of highly dense laterally coupled InAs single quantum dots. *Applied Physics Letters*, **2007**, 91, 041117	3.4	5
6	Focusing characteristics of optical fiber axicon microlens for near-field spectroscopy: Dependence of tip apex angle. *Optics Communications*, **2006**, 267, 264-270	2	16
5	Near-field spectroscopy of bimodal size distribution of InAs/AlGaAs single quantum dots. *Applied Physics Letters*, **2005**, 87, 143108	3.4	8
4	Band-edge exciton transitions temperature in multiple stacked self-assembled $(In_{1-x}Mn_x)As$ quantum dot arrays. *Solid State Communications*, **2005**, 136, 81-84	1.6	
3	Self-assembled $(In_{1-x}Mn_x)As$ diluted magnetic semiconductor quantum dots with high Tc. *Current Applied Physics*, **2004**, 4, 213-216	2.6	3
2	High-resolution near-field spectroscopy of InAs single quantum dots at 70 K. *Applied Physics Letters*, **2003**, 83, 3024-3026	3.4	8
1	Systematic Design and Demonstration of Multi-Bit Generation in Layered Materials Heterostructures Floating-Gate Memory. *Advanced Functional Materials*,2105472	15.6	2