

Yi Song

List of Publications by Year in descending order

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papers

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citations

257450

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docs citations

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times ranked

9415
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Ionic Transport through Tunable Subnanometer Pores in Single-Layer Graphene Membranes. Nano Letters, 2014, 14, 1234-1241.	9.1	687
2	Electrically Tunable Metasurface Perfect Absorbers for Ultrathin Mid-Infrared Optical Modulators. Nano Letters, 2014, 14, 6526-6532.	9.1	657
3	Broad Electrical Tuning of Graphene-Loaded Plasmonic Antennas. Nano Letters, 2013, 13, 1257-1264.	9.1	558
4	Remote epitaxy through graphene enables two-dimensional material-based layer transfer. Nature, 2017, 544, 340-343.	27.8	410
5	Role of Interfacial Oxide in High-Efficiency Graphene-Silicon Schottky Barrier Solar Cells. Nano Letters, 2015, 15, 2104-2110.	9.1	404
6	Nanofiltration across Defect-Sealed Nanoporous Monolayer Graphene. Nano Letters, 2015, 15, 3254-3260.	9.1	272
7	High-Responsivity Mid-Infrared Graphene Detectors with Antenna-Enhanced Photocarrier Generation and Collection. Nano Letters, 2014, 14, 3749-3754.	9.1	231
8	Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329.	21.0	195
9	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	31.4	190
10	Optimized graphene transfer: Influence of polymethylmethacrylate (PMMA) layer concentration and baking time on graphene final performance. Carbon, 2015, 84, 82-90.	10.3	187
11	Molecular Selectivity of Graphene-Enhanced Raman Scattering. Nano Letters, 2015, 15, 2892-2901.	9.1	177
12	Direct transfer of graphene onto flexible substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17762-17767.	7.1	170
13	Wide Wavelength Tuning of Optical Antennas on Graphene with Nanosecond Response Time. Nano Letters, 2014, 14, 214-219.	9.1	151
14	Rapid Identification of Stacking Orientation in Isotopically Labeled Chemical-Vapor Grown Bilayer Graphene by Raman Spectroscopy. Nano Letters, 2013, 13, 1541-1548.	9.1	146
15	Visibly-Transparent Organic Solar Cells on Flexible Substrates with All-Graphene Electrodes. Advanced Energy Materials, 2016, 6, 1600847.	19.5	138
16	Asymmetric Growth of Bilayer Graphene on Copper Enclosures Using Low-Pressure Chemical Vapor Deposition. ACS Nano, 2014, 8, 6491-6499.	14.6	113
17	Electrophoretic and field-effect graphene for all-electrical DNA array technology. Nature Communications, 2014, 5, 4866.	12.8	109
18	Graphene-Based Thermopile for Thermal Imaging Applications. Nano Letters, 2015, 15, 7211-7216.	9.1	81

#	ARTICLE	IF	CITATIONS
19	Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance GaN Emitter. <i>Nano Letters</i> , 2017, 17, 3089-3096.	9.1	74
20	Challenges and opportunities for graphene as transparent conductors in optoelectronics. <i>Nano Today</i> , 2015, 10, 681-700.	11.9	73
21	A review of large-area bilayer graphene synthesis by chemical vapor deposition. <i>Nanoscale</i> , 2015, 7, 20335-20351.	5.6	70
22	A Current-Voltage Model for Graphene Electrolyte-Gated Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 3971-3977.	3.0	33
23	Corrosion of Cu by a sulfate reducing bacterium in anaerobic vials with different headspace volumes. <i>Bioelectrochemistry</i> , 2020, 133, 107478.	4.6	29
24	Iron (III) Chloride doping of CVD graphene. <i>Nanotechnology</i> , 2014, 25, 395701.	2.6	27
25	Symmetry Engineering of Graphene Plasmonic Crystals. <i>Nano Letters</i> , 2015, 15, 5001-5009.	9.1	13
26	High-performance graphene-integrated thermo-optic switch: design and experimental validation [Invited]. <i>Optical Materials Express</i> , 2020, 10, 387.	3.0	13
27	Application of tungsten as a carbon sink for synthesis of large-domain uniform monolayer graphene free of bilayers/multilayers. <i>Nanoscale</i> , 2015, 7, 4929-4934.	5.6	12
28	Graphene-Perovskite Schottky Barrier Solar Cells. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700106.	5.3	12
29	Self-Assembled, Ultrahigh Refractive Index Pseudo-Periodic Sn Nanostructures for Broad-Band Infrared Photon Management in Single Layer Graphene. <i>ACS Photonics</i> , 2019, 6, 50-58.	6.6	4
30	Color Contrast of Single-Layer Graphene under White Light Illumination Induced by Broadband Photon Management. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3827-3835.	8.0	3
31	Mid-infrared graphene detectors with antenna-enhanced light absorption and photo-carrier collection. , 2014, , .		0
32	Ultra-Compact Mid-IR Modulators Based on Electrically Tunable Optical Antennas. , 2014, , .		0
33	Tunneling nanoelectromechanical switches. , 2015, , .		0