

Yi Song

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

5,239
citations

257450

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454955

30
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docs citations

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times ranked

9415
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Color Contrast of Single-Layer Graphene under White Light Illumination Induced by Broadband Photon Management. ACS Applied Materials & Interfaces, 2020, 12, 3827-3835. | 8.0 | 3 |
| 2 | Corrosion of Cu by a sulfate reducing bacterium in anaerobic vials with different headspace volumes. Bioelectrochemistry, 2020, 133, 107478. | 4.6 | 29 |
| 3 | High-performance graphene-integrated thermo-optic switch: design and experimental validation [Invited]. Optical Materials Express, 2020, 10, 387. | 3.0 | 13 |
| 4 | Self-Assembled, Ultrahigh Refractive Index Pseudo-Periodic Sn Nanostructures for Broad-Band Infrared Photon Management in Single Layer Graphene. ACS Photonics, 2019, 6, 50-58. | 6.6 | 4 |
| 5 | Graphene-Perovskite Schottky Barrier Solar Cells. Advanced Sustainable Systems, 2018, 2, 1700106. | 5.3 | 12 |
| 6 | Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance GaN Emitter. Nano Letters, 2017, 17, 3089-3096. | 9.1 | 74 |
| 7 | Remote epitaxy through graphene enables two-dimensional material-based layer transfer. Nature, 2017, 544, 340-343. | 27.8 | 410 |
| 8 | Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805. | 31.4 | 190 |
| 9 | Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329. | 21.0 | 195 |
| 10 | Visibly-Transparent Organic Solar Cells on Flexible Substrates with All-Graphene Electrodes. Advanced Energy Materials, 2016, 6, 1600847. | 19.5 | 138 |
| 11 | Tunneling nanoelectromechanical switches. , 2015, , . | | 0 |
| 12 | A review of large-area bilayer graphene synthesis by chemical vapor deposition. Nanoscale, 2015, 7, 20335-20351. | 5.6 | 70 |
| 13 | Challenges and opportunities for graphene as transparent conductors in optoelectronics. Nano Today, 2015, 10, 681-700. | 11.9 | 73 |
| 14 | Application of tungsten as a carbon sink for synthesis of large-domain uniform monolayer graphene free of bilayers/multilayers. Nanoscale, 2015, 7, 4929-4934. | 5.6 | 12 |
| 15 | Role of Interfacial Oxide in High-Efficiency Graphene-Silicon Schottky Barrier Solar Cells. Nano Letters, 2015, 15, 2104-2110. | 9.1 | 404 |
| 16 | Symmetry Engineering of Graphene Plasmonic Crystals. Nano Letters, 2015, 15, 5001-5009. | 9.1 | 13 |
| 17 | Nanofiltration across Defect-Sealed Nanoporous Monolayer Graphene. Nano Letters, 2015, 15, 3254-3260. | 9.1 | 272 |
| 18 | Molecular Selectivity of Graphene-Enhanced Raman Scattering. Nano Letters, 2015, 15, 2892-2901. | 9.1 | 177 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Graphene-Based Thermopile for Thermal Imaging Applications. Nano Letters, 2015, 15, 7211-7216. | 9.1 | 81 |
| 20 | Optimized graphene transfer: Influence of polymethylmethacrylate (PMMA) layer concentration and baking time on graphene final performance. Carbon, 2015, 84, 82-90. | 10.3 | 187 |
| 21 | Mid-infrared graphene detectors with antenna-enhanced light absorption and photo-carrier collection. , 2014, , . | | 0 |
| 22 | Selective Ionic Transport through Tunable Subnanometer Pores in Single-Layer Graphene Membranes. Nano Letters, 2014, 14, 1234-1241. | 9.1 | 687 |
| 23 | Wide Wavelength Tuning of Optical Antennas on Graphene with Nanosecond Response Time. Nano Letters, 2014, 14, 214-219. | 9.1 | 151 |
| 24 | Ultra-Compact Mid-IR Modulators Based on Electrically Tunable Optical Antennas. , 2014, , . | | 0 |
| 25 | A Current-Voltage Model for Graphene Electrolyte-Gated Field-Effect Transistors. IEEE Transactions on Electron Devices, 2014, 61, 3971-3977. | 3.0 | 33 |
| 26 | Iron (III) Chloride doping of CVD graphene. Nanotechnology, 2014, 25, 395701. | 2.6 | 27 |
| 27 | Electrically Tunable Metasurface Perfect Absorbers for Ultrathin Mid-Infrared Optical Modulators. Nano Letters, 2014, 14, 6526-6532. | 9.1 | 657 |
| 28 | Electrophoretic and field-effect graphene for all-electrical DNA array technology. Nature Communications, 2014, 5, 4866. | 12.8 | 109 |
| 29 | High-Responsivity Mid-Infrared Graphene Detectors with Antenna-Enhanced Photocarrier Generation and Collection. Nano Letters, 2014, 14, 3749-3754. | 9.1 | 231 |
| 30 | Asymmetric Growth of Bilayer Graphene on Copper Enclosures Using Low-Pressure Chemical Vapor Deposition. ACS Nano, 2014, 8, 6491-6499. | 14.6 | 113 |
| 31 | 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 |
| 32 | Broad Electrical Tuning of Graphene-Loaded Plasmonic Antennas. Nano Letters, 2013, 13, 1257-1264. | 9.1 | 558 |
| 33 | 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 |