# Ying Fang

## List of Publications by Year in descending order

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|---|---|---|---|
| 90 papers | 10,810 citations | 81900 39 h-index | 49909 87 g-index |
| 91 all docs | 91 docs citations | 91 times ranked | 16284 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Coaxial silicon nanowires as solar cells and nanoelectronic power sources. Nature, 2007, 449, 885-889. | 27.8 | 2,791 |
| 2 | Detection, Stimulation, and Inhibition of Neuronal Signals with High-Density Nanowire Transistor Arrays. Science, 2006, 313, 1100-1104. | 12.6 | 797 |
| 3 | Syringe-injectable electronics. Nature Nanotechnology, 2015, 10, 629-636. | 31.5 | 543 |
| 4 | Toward Intrinsic Graphene Surfaces: A Systematic Study on Thermal Annealing and Wet-Chemical Treatment of SiO<sub>2</sub>-Supported Graphene Devices. Nano Letters, 2011, 11, 767-771. | 9.1 | 461 |
| 5 | High Detectivity Grapheneâ€Silicon Heterojunction Photodetector. Small, 2016, 12, 595-601. | 10.0 | 370 |
| 6 | Graphene and Nanowire Transistors for Cellular Interfaces and Electrical Recording. Nano Letters, 2010, 10, 1098-1102. | 9.1 | 365 |
| 7 | Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. Advanced Functional Materials, 2016, 26, 2078-2084. | 14.9 | 328 |
| 8 | Largeâ€Area Ultrathin Graphene Films by Singleâ€Step Marangoni Selfâ€Assembly for Highly Sensitive Strain Sensing Application. Advanced Functional Materials, 2016, 26, 1322-1329. | 14.9 | 326 |
| 9 | Multiscale Hierarchical Design of a Flexible Piezoresistive Pressure Sensor with High Sensitivity and Wide Linearity Range. Small, 2018, 14, e1800819. | 10.0 | 326 |
| 10 | Colloidal Antireflection Coating Improves Grapheneâ€“Silicon Solar Cells. Nano Letters, 2013, 13, 1776-1781. | 9.1 | 303 |
| 11 | Local electrical potential detection of DNA by nanowireâ€“nanopore sensors. Nature Nanotechnology, 2012, 7, 119-125. | 31.5 | 288 |
| 12 | Suspended Graphene Sensors with Improved Signal and Reduced Noise. Nano Letters, 2010, 10, 1864-1868. | 9.1 | 280 |
| 13 | Highly Narrowband Photomultiplication Type Organic Photodetectors. Nano Letters, 2017, 17, 1995-2002. | 9.1 | 278 |
| 14 | Unraveling Stressâ€Induced Toxicity Properties of Graphene Oxide and the Underlying Mechanism. Advanced Materials, 2012, 24, 5391-5397. | 21.0 | 213 |
| 15 | Self-Assembled 1-Octadecanethiol Monolayers on Graphene for Mercury Detection. Nano Letters, 2010, 10, 4738-4741. | 9.1 | 164 |
| 16 | Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires. Nano Letters, 2005, 5, 1143-1146. | 9.1 | 153 |
| 17 | Highly Sensitive Lowâ€Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Nearâ€Infrared Region. Advanced Functional Materials, 2017, 27, 1703953. | 14.9 | 148 |
| 18 | Elastocapillary self-assembled neurotassels for stable neural activity recordings. Science Advances, 2019, 5, eaav2842. | 10.3 | 142 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Rational Design of Sub-Parts per Million Specific Gas Sensors Array Based on Metal Nanoparticles Decorated Nanowire Enhancement-Mode Transistors. Nano Letters, 2013, 13, 3287-3292. | 9.1 | 132 |
| 20 | Control of Carrier Type and Density in Exfoliated Graphene by Interface Engineering. ACS Nano, 2011, 5, 408-412. | 14.6 | 124 |
| 21 | Quasi-Freestanding Monolayer Heterostructure of Graphene and Hexagonal Boron Nitride on Ir(111) with a Zigzag Boundary. Nano Letters, 2014, 14, 6342-6347. | 9.1 | 116 |
| 22 | CVD Growth of Large Area Smooth-edged Graphene Nanomesh by Nanosphere Lithography. Scientific Reports, 2013, 3, 1238. | 3.3 | 111 |
| 23 | Organic Photodetectors with Gain and Broadband/Narrowband Response under Top/Bottom Illumination Conditions. Advanced Optical Materials, 2018, 6, 1800249. | 7.3 | 108 |
| 24 | Diameter-dependent dopant location in silicon and germanium nanowires. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15254-15258. | 7.1 | 106 |
| 25 | Generating Electricity from Biofluid with a Nanowireâ€Based Biofuel Cell for Selfâ€Powered Nanodevices. Advanced Materials, 2010, 22, 5388-5392. | 21.0 | 99 |
| 26 | Photomultiplication Type Organic Photodetectors with Broadband and Narrowband Response Ability. Advanced Optical Materials, 2018, 6, 1800001. | 7.3 | 98 |
| 27 | Carbon Nanotube and CdSe Nanobelt Schottky Junction Solar Cells. Nano Letters, 2010, 10, 3583-3589. | 9.1 | 90 |
| 28 | Spin States of the First Four Holes in a Silicon Nanowire Quantum Dot. Nano Letters, 2009, 9, 1071-1079. | 9.1 | 78 |
| 29 | Flexible and Implantable Microelectrodes for Chronically Stable Neural Interfaces. Advanced Materials, 2019, 31, e1804895. | 21.0 | 66 |
| 30 | Carbon Nanotube Network Embroidered Graphene Films for Monolithic Allâ€Carbon Electronics. Advanced Materials, 2015, 27, 682-688. | 21.0 | 62 |
| 31 | Spontaneous Formation of Nanostructures in Graphene. Nano Letters, 2009, 9, 3599-3602. | 9.1 | 58 |
| 32 | Bacterial Cellulose as a Supersoft Neural Interfacing Substrate. ACS Applied Materials & Interfaces, 2018, 10, 33049-33059. | 8.0 | 58 |
| 33 | Grayscale photomask fabricated by laser direct writing in metallic nano-films. Optics Express, 2009, 17, 19981. | 3.4 | 52 |
| 34 | Real-Time Study of Grapheneâ€™s Phase Transition in Polymer Matrices. Nano Letters, 2009, 9, 2129-2132. | 9.1 | 49 |
| 35 | The effect of graphene oxide on conformation change, aggregation and cytotoxicity of HIV-1 regulatory protein (Vpr). Biomaterials, 2013, 34, 1383-1390. | 11.4 | 46 |
| 36 | Organic bioelectronics for neural interfaces. Journal of Materials Chemistry C, 2015, 3, 6424-6430. | 5.5 | 44 |

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|---|---|---|---|
| 37 | Graphene welded carbon nanotube crossbars for biaxial strain sensors. Carbon, 2017, 123, 786-793. | 10.3 | 44 |
| 38 | Topological insulators in transition-metal intercalated graphene: The role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>electrons in significantly increasing the spin-orbit gap. Physical Review B, 2013, 87, . | 3.2 | 43 |
| 39 | Bio-inspired micro/nanostructures for flexible and stretchable electronics. Nano Research, 2020, 13, 1244-1252. | 10.4 | 42 |
| 40 | Photomultiplication type narrowband organic photodetectors working at forward and reverse bias. Physical Chemistry Chemical Physics, 2017, 19, 14424-14430. | 2.8 | 41 |
| 41 | Highly Crumpled All-Carbon Transistors for Brain Activity Recording. Nano Letters, 2017, 17, 71-77. | 9.1 | 38 |
| 42 | High-Quality Monolithic Graphene Films via Laterally Stitched Growth and Structural Repair of Isolated Flakes for Transparent Electronics. Chemistry of Materials, 2017, 29, 7808-7815. | 6.7 | 38 |
| 43 | Binary Thiol-Capped Gold Nanoparticle Monolayer Films for Quantitative Surface-Enhanced Raman Scattering Analysis. ACS Applied Materials & Interfaces, 2019, 11, 16207-16213. | 8.0 | 38 |
| 44 | A General Method for the Chemical Synthesis of Largeâ€Scale, Seamless Transition Metal Dichalcogenide Electronics. Advanced Materials, 2018, 30, e1706215. | 21.0 | 36 |
| 45 | Switchable supramolecular assemblies on graphene. Nanoscale, 2014, 6, 8387-8391. | 5.6 | 32 |
| 46 | Templated synthesis of TiO2 nanotube macrostructures and their photocatalytic properties. Nano Research, 2015, 8, 900-906. | 10.4 | 32 |
| 47 | Sensitivity Limits and Scaling of Bioelectronic Graphene Transducers. Nano Letters, 2013, 13, 2902-2907. | 9.1 | 31 |
| 48 | Improvement of grapheneâ€“Si solar cells by embroidering graphene with a carbon nanotube spider-web. Nano Energy, 2015, 17, 216-223. | 16.0 | 30 |
| 49 | Self-assembled multifunctional neural probes for precise integration of optogenetics and electrophysiology. Nature Communications, 2021, 12, 5871. | 12.8 | 29 |
| 50 | Solid-Phase Coalescence of Electrochemically Exfoliated Graphene Flakes into a Continuous Film on Copper. Chemistry of Materials, 2016, 28, 3360-3366. | 6.7 | 28 |
| 51 | Flexible and biocompatible nanopaper-based electrode arrays for neural activity recording. Nano Research, 2018, 11, 5604-5614. | 10.4 | 26 |
| 52 | Carbon-Nanotube-Wrapped Spider Silks for Directed Cardiomyocyte Growth and Electrophysiological Detection. ACS Applied Materials & Interfaces, 2018, 10, 6793-6798. | 8.0 | 26 |
| 53 | Soluble Polymer-Based, Blown Bubble Assembly of Single- and Double-Layer Nanowires with Shape Control. ACS Nano, 2014, 8, 3522-3530. | 14.6 | 24 |
| 54 | Acceptor-free photomultiplication-type organic photodetectors. Nanoscale, 2019, 11, 16406-16413. | 5.6 | 24 |

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|---|---|---|---|
| 55 | Magnetic Actuation of Flexible Microelectrode Arrays for Neural Activity Recordings. Nano Letters, 2019, 19, 8032-8039. | 9.1 | 24 |
| 56 | Electric field effect thermoelectric transport in individual silicon and germanium/silicon nanowires. Journal of Applied Physics, 2016, 119, . | 2.5 | 23 |
| 57 | In vitro enhancement of dendritic cell-mediated anti-glioma immune response by graphene oxide. Nanoscale Research Letters, 2014, 9, 311. | 5.7 | 22 |
| 58 | Peptide-functionalized carbon dots for sensitive and selective Ca2+ detection. Sensors and Actuators B: Chemical, 2018, 273, 1654-1659. | 7.8 | 22 |
| 59 | Flexible Micropillar Electrode Arrays for In Vivo Neural Activity Recordings. Small, 2019, 15, e1900582. | 10.0 | 21 |
| 60 | Ultrasmall silicon quantum dots. Journal of Applied Physics, 2009, 105, . | 2.5 | 20 |
| 61 | Nanodevices for Cellular Interfaces and Electrophysiological Recording. Advanced Materials, 2013, 25, 3881-3887. | 21.0 | 20 |
| 62 | Bioinspired flexible electronics for seamless neural interfacing and chronic recording. Nanoscale Advances, 2020, 2, 3095-3102. | 4.6 | 20 |
| 63 | Schottky diode characteristics and 1/f noise of high sensitivity reduced graphene oxide/Si heterojunction photodetector. Journal of Applied Physics, 2016, 119, 124303. | 2.5 | 18 |
| 64 | Crack Control in Biotemplated Gold Films for Wideâ€Range, Highly Sensitive Strain Sensing. Advanced Materials Interfaces, 2019, 6, 1901223. | 3.7 | 17 |
| 65 | Direct synthesis of graphene/carbon nanotube hybrid films from multiwalled carbon nanotubes on copper. Carbon, 2017, 118, 675-679. | 10.3 | 16 |
| 66 | Cellular uptake and distribution of graphene oxide coated with layer-by-layer assembled polyelectrolytes. Journal of Nanoparticle Research, 2014, 16, 1. | 1.9 | 15 |
| 67 | Recent advances in nanopore-based nucleic acid analysis and sequencing. Mikrochimica Acta, 2016, 183, 925-939. | 5.0 | 15 |
| 68 | Biomedical Applications of Graphene. , 2018, , 215-232. | | 15 |
| 69 | Multimodal neural probes for combined optogenetics and electrophysiology. IScience, 2022, 25, 103612. | 4.1 | 14 |
| 70 | Fabrication of suspended graphene devices and their electronic properties. Chinese Physics B, 2010, 19, 097307. | 1.4 | 13 |
| 71 | Blown-Bubble Assembly and in Situ Fabrication of Sausage-like Graphene Nanotubes Containing Copper Nanoblocks. Nano Letters, 2016, 16, 4917-4924. | 9.1 | 13 |
| 72 | Anti-fouling peptide functionalization of ultraflexible neural probes for long-term neural activity recordings in the brain. Biosensors and Bioelectronics, 2021, 192, 113477. | 10.1 | 13 |

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|---|---|---|---|
| 73 | Transparent graphene bioelectronics as a new tool for multimodal neural interfaces. Nano Today, 2019, 26, 13-15. | 11.9 | 12 |
| 74 | Nanobeltâ€“carbon nanotube cross-junction solar cells. Energy and Environmental Science, 2012, 5, 6119. | 30.8 | 11 |
| 75 | Freeâ€Standing Nanofilm Electrode Arrays for Longâ€Term Stable Neural Interfacings. Advanced Materials, 2022, 34, e2107343. | 21.0 | 11 |
| 76 | Ultramicroelectrode array modified with magnetically labeled Bacillus subtilis, palladium nanoparticles and reduced carboxy graphene for amperometric determination of biochemical oxygen demand. Mikrochimica Acta, 2017, 184, 763-771. | 5.0 | 10 |
| 77 | Implantable and Flexible Electronics for In vivo Brain Activity Recordings. Chinese Journal of Analytical Chemistry, 2019, 47, 1549-1558. | 1.7 | 10 |
| 78 | Flexible and highly responsive photodetectors based on heterostructures of MoS<sub>2</sub> and all-carbon transistors. Nanotechnology, 2021, 32, 315209. | 2.6 | 9 |
| 79 | Photomultiplication type all-polymer photodetectors with single carrier transport property. Science China Chemistry, 2019, 62, 1619-1624. | 8.2 | 8 |
| 80 | Facile Solution Synthesis and Photoelectric Properties of Monolithic Tin(II) Sulfide Nanobelt Arrays. Chemistry - an Asian Journal, 2013, 8, 2483-2488. | 3.3 | 7 |
| 81 | Flexible bio-interfaced nanoelectronics. Journal of Materials Chemistry C, 2014, 2, 1178. | 5.5 | 7 |
| 82 | Simultaneous surface and depth neural activity recording with graphene transistor-based dual-modality probes. Biosensors and Bioelectronics, 2018, 105, 109-115. | 10.1 | 7 |
| 83 | Carbon nanotube spiderweb promoted growth of hierarchical transition metal dichalcogenide nanostructures for seamless devices. Nanotechnology, 2020, 31, 365601. | 2.6 | 5 |
| 84 | Controlled construction of nanostructures in graphene. Chinese Physics B, 2014, 23, 028102. | 1.4 | 4 |
| 85 | The design ofd-character Dirac cones based on graphene. Journal of Physics Condensed Matter, 2014, 26, 385501. | 1.8 | 4 |
| 86 | Remote neural regulation mediated by nanomaterials. Nanotechnology, 2022, 33, 272002. | 2.6 | 4 |
| 87 | Graphene: Unraveling Stress-Induced Toxicity Properties of Graphene Oxide and the Underlying Mechanism (Adv. Mater. 39/2012). Advanced Materials, 2012, 24, 5390-5390. | 21.0 | 2 |
| 88 | In-situ sugar-templated porous elastomer sensor with high sensitivity for wearables. Frontiers of Materials Science, 2022, 16, . | 2.2 | 2 |
| 89 | Coaxial silicon nanowires as solar cells and nanoelectronic power sources. , 2010, , 58-62. | | 1 |
| 90 | Nanowire Bioelectronics. Nanostructure Science and Technology, 2019, , 337-352. | 0.1 | 0 |