

# Zhibin Yang

## List of Publications by Year in Descending Order

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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.

|                   |                          |                 |                 |
|-------------------|--------------------------|-----------------|-----------------|
| 93<br>papers      | 9,789<br>citations       | 54<br>h-index   | 98<br>g-index   |
| 99<br>ext. papers | 10,755<br>ext. citations | 15.6<br>avg, IF | 6.27<br>L-index |

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 93 | Manipulating the Crystallization Kinetics by Additive Engineering toward High-Efficient Photovoltaic Performance. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009103   | 15.6 | 7         |
| 92 | Interfacial and Permeating Modification Effect of n-type Non-fullerene Acceptors toward High-Performance Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40778-40787               | 9.5  | 7         |
| 91 | Blading Phase-Pure Formamidinium-Alloyed Perovskites for High-Efficiency Solar Cells with Low Photovoltage Deficit and Improved Stability. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000995                            | 24   | 80        |
| 90 | Simplified interconnection structure based on C60/SnO <sub>2</sub> -x for all-perovskite tandem solar cells. <i>Nature Energy</i> , <b>2020</b> , 5, 657-665   | 62.3 | 85        |
| 89 | Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4498  | 17.4 | 138       |
| 88 | Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. <i>Nature Communications</i> , <b>2019</b> , 10, 1276                                       | 17.4 | 144       |
| 87 | Bilateral alkylamine for suppressing charge recombination and improving stability in blade-coated perovskite solar cells. <i>Science Advances</i> , <b>2019</b> , 5, eaav8925  | 14.3 | 262       |
| 86 | Molecular doping enabled scalable blading of efficient hole-transport-layer-free perovskite solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 1625  | 17.4 | 242       |
| 85 | Solution-processed chalcopyrite perovskite tandem solar cells in bandgap-matched two- and four-terminal architectures. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3214-3220                                  | 13   | 19        |
| 84 | Ascorbic acid as an effective antioxidant additive to enhance the efficiency and stability of Pb/Sn-based binary perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 34, 392-398                                      | 17.1 | 120       |
| 83 | High-Performance Near-IR Photodetector Using Low-Bandgap MA <sub>0.5</sub> FA <sub>0.5</sub> Pb <sub>0.5</sub> Sn <sub>0.5</sub> I <sub>3</sub> Perovskite. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701053 | 15.6 | 77        |
| 82 | Defect Passivation via a Graded Fullerene Heterojunction in Low-Bandgap Pb/Sn Binary Perovskite Photovoltaics. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2531-2539  | 20.1 | 90        |
| 81 | Highly Efficient Perovskite-Perovskite Tandem Solar Cells Reaching 80% of the Theoretical Limit in Photovoltage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702140   | 24   | 210       |
| 80 | Ideal Bandgap Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704418   | 24   | 103       |
| 79 | Stable Low-Bandgap Pb-Sn Binary Perovskites for Tandem Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8990-8997  | 24   | 254       |
| 78 | A hybrid carbon aerogel with both aligned and interconnected pores as interlayer for high-performance lithium-sulfur batteries. <i>Nano Research</i> , <b>2016</b> , 9, 3735-3746  | 10   | 127       |
| 77 | Stabilized Wide Bandgap Perovskite Solar Cells by Tin Substitution. <i>Nano Letters</i> , <b>2016</b> , 16, 7739-7747  | 11.5 | 155       |

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| 76 | Improved efficiency and stability of PbSn binary perovskite solar cells by Cs substitution. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17939-17945                             | 13   | 115 |
| 75 | High performance fiber-shaped solar cells. <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 113-117   | 2.1  | 3   |
| 74 | Effects of formamidine and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 22, 328-337            | 17.1 | 152 |
| 73 | Large Grained Perovskite Solar Cells Derived from Single-Crystal Perovskite Powders with Enhanced Ambient Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14513-20 | 9.5  | 54  |
| 72 | High-Performance Fully Printable Perovskite Solar Cells via Blade-Coating Technique under the Ambient Condition. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500328                   | 21.8 | 257 |
| 71 | Recent advancement of nanostructured carbon for energy applications. <i>Chemical Reviews</i> , <b>2015</b> , 115, 5159-223   | 68.1 | 598 |
| 70 | Aligned Carbon Nanotubes and Their Hybrids for Supercapacitors <b>2015</b> , 339-359   |      |     |
| 69 | Elastic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 21070-21076   | 13   | 56  |
| 68 | Superelastic supercapacitors with high performances during stretching. <i>Advanced Materials</i> , <b>2015</b> , 27, 356-62  | 24   | 200 |
| 67 | Freestanding aligned carbon nanotube array grown on a large-area single-layered graphene sheet for efficient dye-sensitized solar cell. <i>Small</i> , <b>2015</b> , 11, 1150-5                | 11   | 30  |
| 66 | Stretchable polymer solar cell fibers. <i>Small</i> , <b>2015</b> , 11, 675-80   | 11   | 61  |
| 65 | Novel Wearable Energy Devices Based on Aligned Carbon Nanotube Fiber Textiles. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401438   | 21.8 | 118 |
| 64 | Energy harvesting and storage devices fused into various patterns. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14977-14984  | 13   | 21  |
| 63 | Weaving Efficient Polymer Solar Cell Wires into Flexible Power Textiles. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301750   | 21.8 | 73  |
| 62 | Stretchable, wearable dye-sensitized solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 2643-7, 2613   | 24   | 191 |
| 61 | Integrated polymer solar cell and electrochemical supercapacitor in a flexible and stable fiber format. <i>Advanced Materials</i> , <b>2014</b> , 26, 466-70                                   | 24   | 298 |
| 60 | Wearable Solar Cells by Stacking Textile Electrodes. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 6224-6228   | 3.6  | 43  |
| 59 | Wearable solar cells by stacking textile electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6110-4   | 16.4 | 115 |

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| 58 | A twisted wire-shaped dual-function energy device for photoelectric conversion and electrochemical storage. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6664-8   | 16.4 | 78  |
| 57 | A novel Energy fiber by coaxially integrating dye-sensitized solar cell and electrochemical capacitor. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1897-1902               | 13   | 110 |
| 56 | Stable wire-shaped dye-sensitized solar cells based on eutectic melts. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3841  | 13   | 21  |
| 55 | Cross-stacking aligned carbon-nanotube films to tune microwave absorption frequencies and increase absorption intensities. <i>Advanced Materials</i> , <b>2014</b> , 26, 8120-5           | 24   | 548 |
| 54 | Integrating perovskite solar cells into a flexible fiber. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10425-8  | 16.4 | 219 |
| 53 | Quasi-solid-state, coaxial, fiber-shaped dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 345-349   | 13   | 61  |
| 52 | Miniature wire-shaped solar cells, electrochemical capacitors and lithium-ion batteries. <i>Materials Today</i> , <b>2014</b> , 17, 276-284   | 21.8 | 44  |
| 51 | Novel graphene/carbon nanotube composite fibers for efficient wire-shaped miniature energy devices. <i>Advanced Materials</i> , <b>2014</b> , 26, 2868-73                                 | 24   | 279 |
| 50 | Core-sheath carbon nanostructured fibers for efficient wire-shaped dye-sensitized solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 1694-8                                       | 24   | 74  |
| 49 | Carbon Nanostructured Fibers As Counter Electrodes in Wire-Shaped Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16419-16425                     | 3.8  | 44  |
| 48 | Self-powered energy fiber: energy conversion in the sheath and storage in the core. <i>Advanced Materials</i> , <b>2014</b> , 26, 7038-42   | 24   | 94  |
| 47 | Integrating Perovskite Solar Cells into a Flexible Fiber. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 10593-10596   | 3.6  | 16  |
| 46 | Solar Cells: Core-Sheath Carbon Nanostructured Fibers for Efficient Wire-Shaped Dye-Sensitized Solar Cells (Adv. Mater. 11/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 1791-1791 | 24   | 2   |
| 45 | Energy Fibers: Self-Powered Energy Fiber: Energy Conversion in the Sheath and Storage in the Core (Adv. Mater. 41/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 7132-7132          | 24   |     |
| 44 | A Twisted Wire-Shaped Dual-Function Energy Device for Photoelectric Conversion and Electrochemical Storage. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 6782-6786                       | 3.6  | 15  |
| 43 | Innentitelbild: Integrating Perovskite Solar Cells into a Flexible Fiber (Angew. Chem. 39/2014). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 10420-10420                                | 3.6  | 0   |
| 42 | Hierarchical composites of polyaniline-graphene nanoribbons-carbon nanotubes as electrode materials in all-solid-state supercapacitors. <i>Nanoscale</i> , <b>2013</b> , 5, 7312-20       | 7.7  | 161 |
| 41 | Photovoltaic wire with high efficiency attached onto and detached from a substrate using a magnetic field. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8276-80   | 16.4 | 42  |

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| 40 | Efficient dye-sensitized photovoltaic wires based on an organic redox electrolyte. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10622-5  | 16.4 | 125  |
| 39 | Aligned carbon nanotube/polymer composite film with anisotropic tribological behavior. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 395, 322-5  | 9.3  | 9    |
| 38 | Winding ultrathin, transparent, and electrically conductive carbon nanotube sheets into high-performance fiber-shaped dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12422-3 | 13   | 29   |
| 37 | Oriented PEDOT:PSS on aligned carbon nanotubes for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13268  | 13   | 58   |
| 36 | The alignment of carbon nanotubes: an effective route to extend their excellent properties to macroscopic scale. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 539-49                                     | 24.3 | 109  |
| 35 | An integrated device for both photoelectric conversion and energy storage based on free-standing and aligned carbon nanotube film. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 954-958                | 13   | 129  |
| 34 | Novel solar cells in a wire format. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 5031-41  | 58.5 | 155  |
| 33 | Carbon nanotubes bridged with graphene nanoribbons and their use in high-efficiency dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3996-9                          | 16.4 | 177  |
| 32 | A novel carbon nanotube/polymer composite film for counter electrodes of dye-sensitized solar cells. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 1680  | 4.9  | 25   |
| 31 | Photovoltaic Wire Derived from a Graphene Composite Fiber Achieving an 8.45 % Energy Conversion Efficiency. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 7693-7696  | 3.6  | 50   |
| 30 | Photovoltaic wire derived from a graphene composite fiber achieving an 8.45 % energy conversion efficiency. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7545-8                              | 16.4 | 138  |
| 29 | Synthesis of aligned carbon nanotube composite fibers with high performances by electrochemical deposition. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2211-2216                                     | 13   | 34   |
| 28 | Integrated devices to realize energy conversion and storage simultaneously. <i>ChemPhysChem</i> , <b>2013</b> , 14, 1777-82  | 3.2  | 42   |
| 27 | Conducting polymer composite film incorporated with aligned carbon nanotubes for transparent, flexible and efficient supercapacitor. <i>Scientific Reports</i> , <b>2013</b> , 3, 1353                               | 4.9  | 212  |
| 26 | A highly stretchable, fiber-shaped supercapacitor. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13453-7  | 16.4 | 431  |
| 25 | Photovoltaic Wire with High Efficiency Attached onto and Detached from a Substrate Using a Magnetic Field. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8434-8438   | 3.6  | 10   |
| 24 | Innenrücktitelbild: Carbon Nanotubes Bridged with Graphene Nanoribbons and Their Use in High-Efficiency Dye-Sensitized Solar Cells (Angew. Chem. 14/2013). <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4131-4131   | 3.6  | 4131 |
| 23 | Carbon Nanotubes Bridged with Graphene Nanoribbons and Their Use in High-Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4088-4091  | 3.6  | 19   |

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| 22 | A Highly Stretchable, Fiber-Shaped Supercapacitor. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13695-13699   | 3.6  | 48  |
| 21 | An Integrated Energy Wire For both Photoelectric Conversion and Energy Storage. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12143-12146  | 3.6  | 36  |
| 20 | Innentitelbild: An Integrated Energy Wire For both Photoelectric Conversion and Energy Storage (Angew. Chem. 48/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12078-12078     | 3.6  |     |
| 19 | An Integrated "energy wire" for both photoelectric conversion and energy storage. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11977-80                      | 16.4 | 377 |
| 18 | A nanotube colorant for synthetic fibers with much improved properties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18653  |      | 8   |
| 17 | Penetrated and aligned carbon nanotubes for counter electrodes of highly efficient dye-sensitized solar cells. <i>Chemical Physics Letters</i> , <b>2012</b> , 549, 82-85            | 2.5  | 19  |
| 16 | Aligned carbon nanotube/polymer composite fibers with improved mechanical strength and electrical conductivity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 903-908    |      | 74  |
| 15 | Intertwined aligned carbon nanotube fiber based dye-sensitized solar cells. <i>Nano Letters</i> , <b>2012</b> , 12, 2568-2575  | 12.5 | 231 |
| 14 | A novel electromechanical actuation mechanism of a carbon nanotube fiber. <i>Advanced Materials</i> , <b>2012</b> , 24, 5379-84  | 24   | 74  |
| 13 | Designing aligned inorganic nanotubes at the electrode interface: towards highly efficient photovoltaic wires. <i>Advanced Materials</i> , <b>2012</b> , 24, 4623-8                  | 24   | 107 |
| 12 | Perpendicularly aligned carbon nanotube/olefin composite films for the preparation of graphene nanomaterials. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16209        |      | 4   |
| 11 | A novel fabrication of a well distributed and aligned carbon nanotube film electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16833 |      | 44  |
| 10 | Preparation and Application of Aligned Carbon Nanotube/Polymer Composite Material. <i>Acta Chimica Sinica</i> , <b>2012</b> , 70, 1523   | 3.3  | 40  |
| 9  | Vertically aligned and penetrated carbon nanotube/polymer composite film and promising electronic applications. <i>Advanced Materials</i> , <b>2011</b> , 23, 3730-5                 | 24   | 73  |
| 8  | Nitrogen-doped carbon nanotube composite fiber with a core-sheath structure for novel electrodes. <i>Advanced Materials</i> , <b>2011</b> , 23, 4620-5                               | 24   | 85  |
| 7  | A new and general fabrication of an aligned carbon nanotube/polymer film for electrode applications. <i>Advanced Materials</i> , <b>2011</b> , 23, 4707-10                           | 24   | 76  |
| 6  | Aligned carbon nanotube sheets for the electrodes of organic solar cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 5436-9   | 24   | 161 |
| 5  | Flexible, Light-Weight, Ultrastrong, and Semiconductive Carbon Nanotube Fibers for a Highly Efficient Solar Cell. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1855-1859            | 3.6  | 27  |

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| 4 | Flexible, light-weight, ultrastrong, and semiconductive carbon nanotube fibers for a highly efficient solar cell. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1815-9 | 16.4 | 173 |
| 3 | Dependence of structures and properties of carbon nanotube fibers on heating treatment. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13772                                       | 40   |     |
| 2 | UV-induced chromatism of polydiacetylenic assemblies. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 2379-84   | 21   |     |
| 1 | Stimuli-sensitive assemblies of homopolymers. <i>Langmuir</i> , <b>2009</b> , 25, 11980-3   | 4    | 4   |