

# Xiaoqin Yan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9361532/publications.pdf>

Version: 2024-02-01

22  
papers

1,296  
citations

361413

20  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

2616  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Hydrophobic Polystyrene Passivation Layer for Simultaneously Improved Efficiency and Stability in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18787-18795.                                       | 8.0  | 107       |
| 2  | Design of sandwich-structured ZnO/ZnS/Au photoanode for enhanced efficiency of photoelectrochemical water splitting. <i>Nano Research</i> , 2015, 8, 2891-2900.  | 10.4 | 104       |
| 3  | High On/Off Ratio Improvement of ZnO-Based Forming-Free Memristor by Surface Hydrogen Annealing. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7382-7388.   | 8.0  | 102       |
| 4  | A self-powered ultraviolet photodetector based on solution-processed p-NiO/n-ZnO nanorod array heterojunction. <i>RSC Advances</i> , 2015, 5, 5976-5981.   | 3.6  | 97        |
| 5  | Enhanced Efficiency and Stability of Perovskite Solar Cells via Anti-Solvent Treatment in Two-Step Deposition Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7224-7231.  | 8.0  | 97        |
| 6  | Temperature-dependent electrochemical capacitive performance of the $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> hollow nanoshuttles as supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 291-296.   | 9.4  | 94        |
| 7  | Improved Photoresponse Performance of Self-Powered ZnO/Spiro-MeOTAD Heterojunction Ultraviolet Photodetector by Piezo-Phototronic Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6137-6143.                          | 8.0  | 92        |
| 8  | Vertical $\text{TaS}_2$ Synthesis on Nanoporous Gold for High-Performance Electrocatalytic Applications. <i>Advanced Materials</i> , 2018, 30, e1705916.   | 21.0 | 75        |
| 9  | Fiber-shaped asymmetric supercapacitors with ultrahigh energy density for flexible/wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17704-17710.  | 10.3 | 69        |
| 10 | Synergistic Effect of Surface Plasmonic particles and Surface Passivation layer on ZnO Nanorods Array for Improved Photoelectrochemical Water Splitting. <i>Scientific Reports</i> , 2016, 6, 29907.                                   | 3.3  | 68        |
| 11 | Scalable Production of Two-Dimensional Metallic Transition Metal Dichalcogenide Nanosheet Powders Using NaCl Templates toward Electrocatalytic Applications. <i>Journal of the American Chemical Society</i> , 2019, 141, 18694-18703. | 13.7 | 56        |
| 12 | Reduced Graphene Oxide Functionalized with Cobalt Ferrite Nanocomposites for Enhanced Efficient and Lightweight Electromagnetic Wave Absorption. <i>Scientific Reports</i> , 2016, 6, 32381.   | 3.3  | 52        |
| 13 | Bioinspired Tribotronic Resistive Switching Memory for Self-Powered Memorizing Mechanical Stimuli. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43822-43829.   | 8.0  | 42        |
| 14 | A potassium thiocyanate additive for hysteresis elimination in highly efficient perovskite solar cells. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 434-442.   | 6.0  | 39        |
| 15 | A facile method for the preparation of three-dimensional CNT sponge and a nanoscale engineering design for high performance fiber-shaped asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22559-22567.   | 10.3 | 37        |
| 16 | Efficient Yttrium(III) Chloride-Treated $\text{TiO}_2$ Electron Transfer Layers for Performance-Improved and Hysteresis-Less Perovskite Solar Cells. <i>ChemSusChem</i> , 2018, 11, 171-177.   | 6.8  | 36        |
| 17 | Influence of carrier concentration on the resistive switching characteristics of a ZnO-based memristor. <i>Nano Research</i> , 2016, 9, 1116-1124.   | 10.4 | 35        |
| 18 | High carrier concentration ZnO nanowire arrays for binder-free conductive support of supercapacitors electrodes by Al doping. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 155-161.                                    | 9.4  | 26        |

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|----|---|------|-----------|
| 19 | Band alignment engineering for high-energy-density solid-state asymmetric supercapacitors with TiO <sub>2</sub> insertion at the ZnO/Ni(OH) <sub>2</sub> interface. Journal of Materials Chemistry A, 2016, 4, 17981-17987. | 10.3 | 25        |
| 20 | Effect of carrier screening on ZnO-based resistive switching memory devices. Nano Research, 2017, 10, 77-86.  | 10.4 | 23        |
| 21 | Tunable channel width of a UV-gate field effect transistor based on ZnO micro-nano wire. RSC Advances, 2014, 4, 18378.  | 3.6  | 14        |
| 22 | Gradient Annealing of Halide Perovskite Films for Improved Performance of Solar Cells. ACS Applied Energy Materials, 2020, 3, 8130-8134.  | 5.1  | 6         |