

# Bo-Ru Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,066  
citations

394421

19  
h-index

233421

45  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2509  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | An intrinsically stretchable humidity sensor based on anti-drying, self-healing and transparent organohydrogels. <i>Materials Horizons</i> , 2019, 6, 595-603.  | 12.2 | 297       |
| 2  | Ultrastretchable and Stable Strain Sensors Based on Antifreezing and Self-Healing Ionic Organohydrogels for Human Motion Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9405-9414.         | 8.0  | 285       |
| 3  | Extremely Deformable, Transparent, and High-Performance Gas Sensor Based on Ionic Conductive Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2364-2373.                                       | 8.0  | 180       |
| 4  | Physical activation of innate immunity by spiky particles. <i>Nature Nanotechnology</i> , 2018, 13, 1078-1086.  | 31.5 | 158       |
| 5  | Microneedles for transdermal diagnostics: Recent advances and new horizons. <i>Biomaterials</i> , 2020, 232, 119740.  | 11.4 | 143       |
| 6  | Highly Sensitive Capacitive Pressure Sensor Based on a Micropyramid Array for Health and Motion Monitoring. <i>Advanced Electronic Materials</i> , 2021, 7, 2100174.  | 5.1  | 89        |
| 7  | Environment tolerant, adaptable and stretchable organohydrogels: preparation, optimization, and applications. <i>Materials Horizons</i> , 2022, 9, 1356-1386.   | 12.2 | 75        |
| 8  | Comprehensive Stability Improvement of Silver Nanowire Networks via Self-Assembled Mercapto Inhibitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37699-37708.                                    | 8.0  | 64        |
| 9  | Multifunctional and High-Sensitive Sensor Capable of Detecting Humidity, Temperature, and Flow Stimuli Using an Integrated Microheater. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43383-43392.    | 8.0  | 64        |
| 10 | Metasurface Color Filters Using Aluminum and Lithium Niobate Configurations. <i>Nanoscale Research Letters</i> , 2020, 15, 77.  | 5.7  | 62        |
| 11 | Three-Dimensional-Structured Boron- and Nitrogen-Doped Graphene Hydrogel Enabling High-Sensitivity NO <sub>2</sub> Detection at Room Temperature. <i>ACS Sensors</i> , 2019, 4, 1889-1898.                        | 7.8  | 58        |
| 12 | Stretchable, Stable, and Room-Temperature Gas Sensors Based on Self-Healing and Transparent Organohydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52070-52081.                               | 8.0  | 57        |
| 13 | Ion-Conductive Hydrogel-Based Stretchable, Self-Healing, and Transparent NO <sub>2</sub> Sensor with High Sensitivity and Selectivity at Room Temperature. <i>Small</i> , 2021, 17, e2104997.                     | 10.0 | 55        |
| 14 | Electrically robust silver nanowire patterns transferrable onto various substrates. <i>Nanoscale</i> , 2016, 8, 5507-5515.  | 5.6  | 51        |
| 15 | Integrating Poly-Silicon and InGaZnO Thin-Film Transistors for CMOS Inverters. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3668-3671.  | 3.0  | 43        |
| 16 | Ultrasonically Patterning Silver Nanowire-Acrylate Composite for Highly Sensitive and Transparent Strain Sensors Based on Parallel Cracks. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47729-47738. | 8.0  | 41        |
| 17 | Fabrication of Embedded Silver Nanowires on Arbitrary Substrates with Enhanced Stability via Chemisorbed Alkanethiolate. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15130-15138.                    | 8.0  | 40        |
| 18 | Hollow Nanoneedle-Electroporation System To Extract Intracellular Protein Repetitively and Nondestructively. <i>ACS Sensors</i> , 2018, 3, 1675-1682.   | 7.8  | 38        |

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|----|---|------|-----------|
| 19 | Tape-Based Photodetector: Transfer Process and Persistent Photoconductivity. ACS Applied Materials & Interfaces, 2018, 10, 16596-16604.   | 8.0  | 21        |
| 20 | Controllable formation of periodic wrinkles in Marangoni-driven self-assembled graphene film for sensitive strain detection. Science China Materials, 2020, 63, 1983-1992.  | 6.3  | 19        |
| 21 | Self-powered electronic paper with energy supplies and information inputs solely from mechanical motions. Photonics Research, 2020, 8, 1496.  | 7.0  | 18        |
| 22 | Direct stamping multifunctional tactile sensor for pressure and temperature sensing. Nano Research, 2022, 15, 3614-3620.  | 10.4 | 17        |
| 23 | Transfer printing for fabrication of flexible RGB color e-paper. Journal of the Society for Information Display, 2017, 25, 384-390.   | 2.1  | 16        |
| 24 | Optically Programmable Plateau-Rayleigh Instability for High-Resolution and Scalable Morphology Manipulation of Silver Nanowires for Flexible Optoelectronics. ACS Applied Materials & Interfaces, 2020, 12, 53984-53993. | 8.0  | 16        |
| 25 | One-step plasmonic welding and photolithographic patterning of silver nanowire network by UV-programable surface atom diffusion. Nano Research, 2022, 15, 2582-2591.  | 10.4 | 15        |
| 26 | Coating, patterning, and transferring processes of silver nanowire for flexible display and sensing applications. Journal of the Society for Information Display, 2016, 24, 234-240.                                      | 2.1  | 14        |
| 27 | Constructing Electrophoretic Displays on Foldable Paper-Based Electrodes by a Facile Transferring Method. ACS Applied Electronic Materials, 2020, 2, 1335-1342.   | 4.3  | 13        |
| 28 | A Convolutional Neural Network for Ghost Image Recognition and Waveform Design of Electrophoretic Displays. IEEE Transactions on Consumer Electronics, 2020, 66, 356-365.   | 3.6  | 11        |
| 29 | Electrostatic assembly of ultraviolet-curable cellulose-coated silver nanowires as transparent electrodes for nanogenerator. Applied Physics Express, 2018, 11, 075002.   | 2.4  | 10        |
| 30 | Self-assembled monolayer modulated Plateau-Rayleigh instability and enhanced chemical stability of silver nanowire for invisibly patterned, stable transparent electrodes. Nano Research, 2022, 15, 4552-4562.            | 10.4 | 10        |
| 31 | Slippery surface based on lubricant infused hierarchical silicon nanowire film. RSC Advances, 2017, 7, 55812-55818.   | 3.6  | 9         |
| 32 | Stretchable Transparent Electrode <i>via</i> Wettability Self-Assembly in Mechanically Induced Self-Cracking. ACS Applied Materials & Interfaces, 2021, 13, 52880-52891.  | 8.0  | 8         |
| 33 | Full-Color Flexible Electrophoretic Paper with Interfacial Engineering and Transferring Process. Digest of Technical Papers SID International Symposium, 2017, 48, 542-544.   | 0.3  | 7         |
| 34 | Backflow Effect Enabling Fast Response and Low Driving Voltage of Electrophoretic E-ink Dispersion by Liquid Crystal Additives. Scientific Reports, 2019, 9, 13981.   | 3.3  | 7         |
| 35 | Ultrahigh Sensitivity of Flexible Thermistors Based on 3D Porous Graphene Characterized by Imbedded Microheaters. Advanced Electronic Materials, 2020, 6, 2000451.  | 5.1  | 7         |
| 36 | Chitosan-assisted buffer layer incorporated with hydroxypropyl methylcellulose-coated silver nanowires for paper-based sensors. Applied Physics Express, 2017, 10, 065002.  | 2.4  | 6         |

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|----|---|------|-----------|
| 37 | TiO <sub>2</sub> nanowire-templated hierarchical nanowire network as water-repelling coating. Royal Society Open Science, 2017, 4, 171431.  | 2.4  | 6         |
| 38 | Nanospikes-mediated Anomalous Dispersities of Hydropobic Micro-objects and their Application for Oil Emulsion Cleaning. Scientific Reports, 2018, 8, 12600.   | 3.3  | 6         |
| 39 | Hydrogen Doping Oxide Transistors: Analysis of Ultrahigh Apparent Mobility in Oxide Field-Effect Transistors (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970040.  | 11.2 | 6         |
| 40 | Stretchable, Washable, and Rewritable Electrophoretic Displays with Tough Hydrogel-Elastomer Interface. Advanced Materials Technologies, 2022, 7, 2100961.  | 5.8  | 6         |
| 41 | Simple silver nanowire patterning using a DUV lamp direct write with sol-gel IZO capping. RSC Advances, 2017, 7, 33091-33097.   | 3.6  | 4         |
| 42 | Bed-Exit Prediction Based on 3D Convolutional Neural Network. , 2018, , .   |      | 3         |
| 43 | P-19: Dual Active Layer Structure of Nitrogen Doped Amorphous InSnZnO Thin-Film Transistors for Negative Gate Bias Stability Improvement. Digest of Technical Papers SID International Symposium, 2016, 47, 1186-1188.                      | 0.3  | 2         |
| 44 | P-78: Simulator-Based Efficient Panel Design and Image Retrieval for Under-Display Cameras. Digest of Technical Papers SID International Symposium, 2021, 52, 1372-1375.  | 0.3  | 2         |
| 45 | 49-1: Fast-Switching Electrophoretic Paper with Mixture of Liquid Crystal and Ink for Charging and Rheological Optimizations. Digest of Technical Papers SID International Symposium, 2020, 51, 715-718.                                    | 0.3  | 1         |
| 46 | 3.3: Fabricating Self-Powered Paper on Paper Substrates and Driven by Triboelectric Nanogenerator Module. Digest of Technical Papers SID International Symposium, 2021, 52, 67-70.  | 0.3  | 1         |
| 47 | P-150L: Late-News Poster: Exploration of Coating and Alignment Methods for Making High-Performance Transparent Conductive Films with Silver Nanowire Networks. Digest of Technical Papers SID International Symposium, 2015, 46, 1748-1749. | 0.3  | 0         |
| 48 | 25-2:Distinguished Paper: Coating, Patterning, and Transferring Processes of Silver Nanowire for Flexible Display and Sensing Applications. Digest of Technical Papers SID International Symposium, 2016, 47, 311-314.                      | 0.3  | 0         |
| 49 | Enhancing Performance in Thin Film Transistors with Vacuum or Solution Processed Amorphous Oxide Semiconductors Towards Display Applications. , 2018, , .   |      | 0         |
| 50 | 4.1: Invited Paper: Advanced Electrophoretic Paper with Fast-Switching and Low-Driving Voltage Performances. Digest of Technical Papers SID International Symposium, 2019, 50, 47-47.   | 0.3  | 0         |
| 51 | 13.1: Stability Enhancement of Silver Nanowire Transparent Conductors via Self-Assembled Monolayer. Digest of Technical Papers SID International Symposium, 2021, 52, 86-86.  | 0.3  | 0         |
| 52 | P-15.2: Embedded, Alkanethiolate-Capped Silver Nanowires for High-Performance, Chemically Stable Flexible Transparent Electrodes. Digest of Technical Papers SID International Symposium, 2021, 52, 668-668.                                | 0.3  | 0         |
| 53 | 41.1: Invited Paper: Coating and Patterning Techniques of Silver Nanowire for High-Performance Transparent Conductive Electrodes. Digest of Technical Papers SID International Symposium, 2021, 52, 500-500.                                | 0.3  | 0         |
| 54 | 3.4: Dual-Mode Switching Electrophoretic Displays with Thermally Reversible Gelators. Digest of Technical Papers SID International Symposium, 2021, 52, 71-74.  | 0.3  | 0         |

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| 55 | 16.3: Flexible Liquid Crystal Displays with Fine-Width Polymer Walls and Self-Assembled Monolayer Alignment. Digest of Technical Papers SID International Symposium, 2021, 52, 220-223. | 0.3 | 0         |