

# Jun-Liang Yang

## List of Publications by Year in descending order

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242  
papers

10,586  
citations

23567

58  
h-index

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86  
g-index

246  
all docs

246  
docs citations

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times ranked

10995  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | 2D MoS <sub>2</sub> Neuromorphic Devices for Brain-Like Computational Systems. <i>Small</i> , 2017, 13, 1700933.  | 10.0 | 268       |
| 2  | Light-Induced Degradation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Perovskite Thin Film. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3904-3910.   | 3.1  | 265       |
| 3  | Large-area perovskite nanowire arrays fabricated by large-scale roll-to-roll micro-gravure printing and doctor blading. <i>Nanoscale</i> , 2016, 8, 5350-5357.  | 5.6  | 213       |
| 4  | Molecular Template Growth and Its Applications in Organic Electronics and Optoelectronics. <i>Chemical Reviews</i> , 2015, 115, 5570-5603.  | 47.7 | 198       |
| 5  | 2D electric-double-layer phototransistor for photoelectronic and spatiotemporal hybrid neuromorphic integration. <i>Nanoscale</i> , 2019, 11, 1360-1369.  | 5.6  | 195       |
| 6  | Layer-dependent transport and optoelectronic property in two-dimensional perovskite: (PEA) <sub>2</sub> PbI <sub>4</sub> . <i>Nanoscale</i> , 2018, 10, 8677-8688.  | 5.6  | 169       |
| 7  | High-Performance Flexible Perovskite Solar Cells via Precise Control of Electron Transport Layer. <i>Advanced Energy Materials</i> , 2019, 9, 1901419.  | 19.5 | 167       |
| 8  | The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 183001.  | 2.8  | 158       |
| 9  | Weak epitaxy growth of organic semiconductor thin films. <i>Chemical Society Reviews</i> , 2009, 38, 2634.  | 38.1 | 152       |
| 10 | Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019, 29, 1904020. | 14.9 | 140       |
| 11 | Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. <i>Advanced Materials</i> , 2019, 31, e1804790.  | 21.0 | 139       |
| 12 | Artificial Synapses Based on in-Plane Gate Organic Electrochemical Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26169-26175.   | 8.0  | 138       |
| 13 | A Sub-10 nm Vertical Organic/Inorganic Hybrid Transistor for Pain-Perceptual and Sensitization-Regulated Nociceptor Emulation. <i>Advanced Materials</i> , 2020, 32, e1906171.                                      | 21.0 | 135       |
| 14 | High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor Solution Method. <i>Advanced Materials</i> , 2017, 29, 1703256.   | 21.0 | 121       |
| 15 | Multi-gate organic neuron transistors for spatiotemporal information processing. <i>Applied Physics Letters</i> , 2017, 110, .  | 3.3  | 117       |
| 16 | CsPb(I Br) <sub>3</sub> solar cells. <i>Science Bulletin</i> , 2019, 64, 1532-1539.   | 9.0  | 114       |
| 17 | Wearable CNT/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/PDMS composite strain sensor with enhanced stability for real-time human healthcare monitoring. <i>Nano Research</i> , 2021, 14, 2875-2883.        | 10.4 | 114       |
| 18 | Low-Temperature Processed, Efficient, and Highly Reproducible Cesium-Doped Triple Cation Perovskite Planar Heterojunction Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1700209.   | 5.8  | 113       |

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|----|---|------|-----------|
| 19 | Degradation by Exposure of Coevaporated CH <sub>3</sub> NH <sub>3</sub> Pb <sub>3</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23996-24002.  | 3.1  | 112       |
| 20 | High mobility vanadyl-phthalocyanine polycrystalline films for organic field-effect transistors. <i>Applied Physics Letters</i> , 2007, 90, 253510.   | 3.3  | 109       |
| 21 | Interfacial charge behavior modulation in 2D/3D perovskite heterostructure for potential high-performance solar cells. <i>Nano Energy</i> , 2019, 59, 715-720.  | 16.0 | 108       |
| 22 | Organic photovoltaic modules fabricated by an industrial gravure printing proofer. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 47-55.  | 6.2  | 103       |
| 23 | High-Performance Broadband Perovskite Photodetectors Based on CH <sub>3</sub> NH <sub>3</sub> Pb <sub>3</sub> /C8BTBT Heterojunction. <i>Advanced Electronic Materials</i> , 2017, 3, 1700058.                | 5.1  | 101       |
| 24 | Silane-Capped ZnO Nanoparticles for Use as the Electron Transport Layer in Inverted Organic Solar Cells. <i>ACS Nano</i> , 2018, 12, 5518-5529.   | 14.6 | 101       |
| 25 | Interface degradation of perovskite solar cells and its modification using an annealing-free TiO <sub>2</sub> NPs layer. <i>Organic Electronics</i> , 2016, 30, 30-35.  | 2.6  | 100       |
| 26 | Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. <i>Nano Energy</i> , 2019, 66, 104095.                          | 16.0 | 100       |
| 27 | Coplanar Multigate MoS <sub>2</sub> Electric-Double-Layer Transistors for Neuromorphic Visual Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25943-25948.                             | 8.0  | 99        |
| 28 | Efficient and non-hysteresis CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /PCBM planar heterojunction solar cells. <i>Organic Electronics</i> , 2015, 24, 106-112.  | 2.6  | 94        |
| 29 | Photoelectric Visual Adaptation Based on ODâ€CsPbBr <sub>3</sub> â€Quantumâ€Dots/2Dâ€MoS <sub>2</sub> Mixedâ€Dimensional Heterojunction Transistor. <i>Advanced Functional Materials</i> , 2021, 31, 2010655. | 14.9 | 93        |
| 30 | Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. <i>Science China Chemistry</i> , 2020, 63, 1159-1168.  | 8.2  | 92        |
| 31 | Efficient planar heterojunction perovskite solar cells fabricated by in-situ thermal-annealing doctor blading in ambient condition. <i>Organic Electronics</i> , 2017, 45, 302-307.                           | 2.6  | 90        |
| 32 | Transient security transistors self-supported on biodegradable natural-polymer membranes for brain-inspired neuromorphic applications. <i>Nanoscale</i> , 2018, 10, 14893-14901.                              | 5.6  | 90        |
| 33 | Organic field-effect transistor and its photoresponse using a benzo[1,2-b:4,5-bâ€²]difuran-based donorâ€acceptor conjugated polymer. <i>Organic Electronics</i> , 2014, 15, 1050-1055.                        | 2.6  | 88        |
| 34 | Phthalocyanato Tin(IV) Dichloride: An Airâ€Stable, Highâ€Performance, nâ€Type Organic Semiconductor with a High Fieldâ€Effect Electron Mobility. <i>Advanced Materials</i> , 2008, 20, 2142-2144.             | 21.0 | 87        |
| 35 | Prominent Efficiency Enhancement in Perovskite Solar Cells Employing Silica-Coated Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6996-7004.  | 3.1  | 87        |
| 36 | Roll-to-roll micro-gravure printed large-area zinc oxide thin film as the electron transport layer for solution-processed polymer solar cells. <i>Organic Electronics</i> , 2017, 45, 190-197.                | 2.6  | 87        |

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|----|---|------|-----------|
| 37 | Vertical ODâ€Perovskite/2Dâ€MoS <sub>2</sub> van der Waals Heterojunction Phototransistor for Emulating Photoelectricâ€Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. <i>Small</i> , 2020, 16, e2005217.                        | 10.0 | 87        |
| 38 | Flexible and air-stable perovskite network photodetectors based on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /C8BTBT bulk heterojunction. <i>Applied Physics Letters</i> , 2018, 112, .  | 3.3  | 84        |
| 39 | Large-Scale Flexible and Highly Conductive Carbon Transparent Electrodes via Roll-to-Roll Process and Its High Performance Lab-Scale Indium Tin Oxide-Free Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 6293-6302.                          | 6.7  | 83        |
| 40 | Efficient electron-blocking layer-free planar heterojunction perovskite solar cells with a high open-circuit voltage. <i>Organic Electronics</i> , 2015, 26, 265-272.   | 2.6  | 83        |
| 41 | A 2.16â€eV bandgap polymer donor gives 16% power conversion efficiency. <i>Science Bulletin</i> , 2020, 65, 179-181.  | 9.0  | 75        |
| 42 | Highly stretchable polymer/silver nanowires composite sensor for human health monitoring. <i>Nano Research</i> , 2020, 13, 919-926.   | 10.4 | 74        |
| 43 | (C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> ) <sub>2</sub> NH <sub>3</sub> ) <sub>2</sub> CuBr <sub>4</sub> : A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. <i>ACS Applied Energy Materials</i> , 2018, 1, 2709-2716. | 5.1  | 73        |
| 44 | Long-term synaptic plasticity simulated in ionic liquid/polymer hybrid electrolyte gated organic transistors. <i>Organic Electronics</i> , 2017, 47, 126-132.   | 2.6  | 70        |
| 45 | Large-area and high-performance CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite photodetectors fabricated via doctor blading in ambient condition. <i>Organic Electronics</i> , 2017, 49, 347-354.  | 2.6  | 70        |
| 46 | Near-infrared light-responsive hydrogels <i>via</i> peroxide-decorated MXene-initiated polymerization. <i>Chemical Science</i> , 2019, 10, 10765-10771.   | 7.4  | 70        |
| 47 | Fully doctor-bladed planar heterojunction perovskite solar cells under ambient condition. <i>Organic Electronics</i> , 2018, 58, 153-158.   | 2.6  | 69        |
| 48 | Protonâ€electron-coupled MoS <sub>2</sub> synaptic transistors with a natural renewable biopolymer neurotransmitter for brain-inspired neuromorphic learning. <i>Journal of Materials Chemistry C</i> , 2019, 7, 682-691.                                     | 5.5  | 69        |
| 49 | Multilevel Nonvolatile Organic Photomemory Based on Vanadyl-Phthalocyanine/ <i>para</i> -Sexiphenyl Heterojunctions. <i>ACS Photonics</i> , 2017, 4, 2573-2579.   | 6.6  | 68        |
| 50 | Interface engineering of CsPbI <sub>3</sub> -black phosphorus van der Waals heterostructure. <i>Applied Physics Letters</i> , 2018, 112, .  | 3.3  | 67        |
| 51 | Printed Thin-Film Transistors: Research from China. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25902-25924.  | 8.0  | 65        |
| 52 | Highâ€Performance Organic Heterojunction Phototransistors Based on Highly Ordered Copper Phthalocyanine/ <i>para</i> -Sexiphenyl Thin Films. <i>Advanced Functional Materials</i> , 2017, 27, 1604933.  | 14.9 | 64        |
| 53 | Highly Efficient, Solution-Processed CsPbI <sub>2</sub> Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. <i>ACS Photonics</i> , 2018, 5, 4104-4110.   | 6.6  | 64        |
| 54 | Ion-gel gated field-effect transistors with solution-processed oxide semiconductors for bioinspired artificial synapses. <i>Organic Electronics</i> , 2016, 39, 64-70.  | 2.6  | 62        |

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|----|--|------|-----------|
| 55 | Enhanced efficiency and stability of polymer solar cells with TiO <sub>2</sub> nanoparticles buffer layer. <i>Organic Electronics</i> , 2014, 15, 835-843.   | 2.6  | 61        |
| 56 | The elastic microstructures of inkjet printed polydimethylsiloxane as the patterned dielectric layer for pressure sensors. <i>Applied Physics Letters</i> , 2017, 110, .   | 3.3  | 59        |
| 57 | Screen printed silver nanowire and graphene oxide hybrid transparent electrodes for long-term electrocardiography monitoring. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 455401.  | 2.8  | 59        |
| 58 | Nonisothermal crystallization behavior of the poly(ethylene glycol) block in poly(L-lactide)-poly(ethylene glycol) diblock copolymers: Effect of the poly(L-lactide) block length. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3215-3226. | 2.1  | 58        |
| 59 | Washable and flexible screen printed graphene electrode on textiles for wearable healthcare monitoring. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 125402.  | 2.8  | 58        |
| 60 | Optoelectronic In <sub>2</sub> GaZnO Memtransistors for Artificial Vision System. <i>Advanced Functional Materials</i> , 2020, 30, 2002325.  | 14.9 | 57        |
| 61 | Single Crystals of the Poly(L-lactide) Block and the Poly(ethylene glycol) Block in Poly(L-lactide)-poly(ethylene glycol) Diblock Copolymer. <i>Macromolecules</i> , 2007, 40, 2791-2797.  | 4.8  | 56        |
| 62 | Irreversible light-soaking effect of perovskite solar cells caused by light-induced oxygen vacancies in titanium oxide. <i>Applied Physics Letters</i> , 2017, 111, .  | 3.3  | 56        |
| 63 | Artificial Vision Adaption Mimicked by an Optoelectrical In <sub>2</sub> O <sub>3</sub> Transistor Array. <i>Nano Letters</i> , 2022, 22, 3372-3379.   | 9.1  | 56        |
| 64 | Controllable thin-film morphology and structure for 2,7-dioctyl[1]benzothieno[3,2-b][1]benzothiophene (C8BTBT) based organic field-effect transistors. <i>Organic Electronics</i> , 2016, 36, 73-81.   | 2.6  | 55        |
| 65 | Partial delamination of the organo-montmorillonite with surfactant containing hydroxyl groups in maleated poly(propylene carbonate). <i>Polymer</i> , 2006, 47, 8548-8555.   | 3.8  | 54        |
| 66 | High-performance ultraviolet photodetectors based on CdS/CdS:Sn <sub>2</sub> superlattice nanowires. <i>Nanoscale</i> , 2016, 8, 14580-14586.  | 5.6  | 54        |
| 67 | Large-scale roll-to-roll printed, flexible and stable organic bulk heterojunction photodetector. <i>Npj Flexible Electronics</i> , 2018, 2, .  | 10.7 | 54        |
| 68 | Dual Cross-Linked Ion-Based Temperature-Responsive Conductive Hydrogels with Multiple Sensors and Steady Electrocardiogram Monitoring. <i>Chemistry of Materials</i> , 2020, 32, 7670-7678.  | 6.7  | 54        |
| 69 | Flexible Perovskite Solar Cells: From Materials and Device Architectures to Applications. <i>ACS Energy Letters</i> , 2022, 7, 1412-1445.  | 17.4 | 54        |
| 70 | Ultrathin-Film Growth of <i>para</i> -Sexiphenyl (I): Submonolayer Thin-Film Growth as a Function of the Substrate Temperature. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7816-7820.   | 2.6  | 52        |
| 71 | Artificial synapses based on biopolymer electrolyte-coupled SnO <sub>2</sub> nanowire transistors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11110-11117.   | 5.5  | 52        |
| 72 | Screen printed graphene electrodes on textile for wearable electrocardiogram monitoring. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.  | 2.3  | 52        |



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|-----|---|------|-----------|
| 91  | Recent Advances in Flexible Organic Synaptic Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, 2100336.  | 5.1  | 43        |
| 92  | Investigation on thermal evaporated CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin films. <i>AIP Advances</i> , 2015, 5, .   | 1.3  | 42        |
| 93  | Solution-processed natural gelatin was used as a gate dielectric for the fabrication of oxide field-effect transistors. <i>Organic Electronics</i> , 2016, 38, 357-361.   | 2.6  | 42        |
| 94  | Rheological behavior of Al <sub>2</sub> O <sub>3</sub> suspensions containing polyelectrolyte complexes for direct ink writing. <i>Powder Technology</i> , 2017, 320, 223-229.  | 4.2  | 42        |
| 95  | Efficient and stable inverted polymer solar cells using TiO <sub>2</sub> nanoparticles and analyzed by Mott-Schottky capacitance. <i>Organic Electronics</i> , 2014, 15, 1745-1752.                                     | 2.6  | 41        |
| 96  | Fully-printed, flexible cesium-doped triple cation perovskite photodetector. <i>Applied Materials Today</i> , 2019, 15, 389-397.  | 4.3  | 41        |
| 97  | Radiation tolerance of perovskite solar cells under gamma ray. <i>Organic Electronics</i> , 2019, 71, 79-84.  | 2.6  | 40        |
| 98  | Decreasing energy loss and optimizing band alignment for high performance CsPbI <sub>3</sub> solar cells through guanidine hydrobromide post-treatment. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10346-10353. | 10.3 | 40        |
| 99  | Efficient and stable planar heterojunction perovskite solar cells fabricated under ambient conditions with high humidity. <i>Organic Electronics</i> , 2018, 55, 140-145.   | 2.6  | 39        |
| 100 | First-principles investigations of electronic and optical properties in the MoS <sub>2</sub> /CsPbBr <sub>3</sub> heterostructure. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 135, 109060.               | 4.0  | 39        |
| 101 | Weak Epitaxy Growth of Metal-Free Phthalocyanine on <i>p</i> -Sexiphenyl Monolayer and Double-Layer Films. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3132-3137.   | 2.6  | 38        |
| 102 | A new two-dimensional donor/acceptor copolymer based on 4,8-bis(2-ethylhexylthiophene)thieno[2,3-f]benzofuran for high-performance polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5651.        | 5.5  | 38        |
| 103 | Spatially-correlated neuron transistors with ion-gel gating for brain-inspired applications. <i>Organic Electronics</i> , 2017, 44, 25-31.  | 2.6  | 38        |
| 104 | 3D Printed Polyvinyl Alcohol Tablets with Multiple Release Profiles. <i>Scientific Reports</i> , 2019, 9, 12487.  | 3.3  | 38        |
| 105 | Chitosan-gated low-voltage transparent indium-free aluminum-doped zinc oxide thin-film transistors. <i>Organic Electronics</i> , 2016, 33, 311-315.   | 2.6  | 37        |
| 106 | Highly Efficient Perovskite Solar Cells Processed Under Ambient Conditions Using In Situ Substrate-Heating-Assisted Deposition. <i>Solar Rrl</i> , 2019, 3, 1800318.  | 5.8  | 37        |
| 107 | Recent progress towards roll-to-roll manufacturing of perovskite solar cells using slot-die processing. <i>Flexible and Printed Electronics</i> , 2020, 5, 014006.  | 2.7  | 37        |
| 108 | Influence of the number of layers on ultrathin CsSnI <sub>3</sub> perovskite: from electronic structure to carrier mobility. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 105101.                              | 2.8  | 35        |

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|-----|--|------|-----------|
| 109 | Exploring the Coexistence Mechanism of CsPb <sub>2</sub> Br <sub>5</sub> and CsPbBr <sub>3</sub> Based on the Competitive Phase Diagram. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23052-23058.  | 3.1  | 35        |
| 110 | A Rolling-Mode Al/CsPbBr <sub>3</sub> Schottky Junction Direct-Current Triboelectric Nanogenerator for Harvesting Mechanical and Solar Energy. <i>Advanced Energy Materials</i> , 2022, 12, .  | 19.5 | 35        |
| 111 | Air-stable and high-performance organic field-effect transistors based on ordered, large-domain phthalocyanine copper thin film. <i>Synthetic Metals</i> , 2015, 210, 336-341.   | 3.9  | 34        |
| 112 | High-performance formamidinium-based perovskite photodetectors fabricated via doctor-blading deposition in ambient condition. <i>Organic Electronics</i> , 2017, 47, 102-107.  | 2.6  | 34        |
| 113 | Functionalized Graphene Oxide Enables a High-Performance Bulk Heterojunction Organic Solar Cell with a Thick Active Layer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6238-6248.  | 4.6  | 34        |
| 114 | Solution-processed perovskite solar cells. <i>Journal of Central South University</i> , 2020, 27, 1104-1133.   | 3.0  | 34        |
| 115 | Large-area perovskite solar cells. <i>Science Bulletin</i> , 2020, 65, 872-875.  | 9.0  | 34        |
| 116 | Crystal-Domain Orientation and Boundary in Highly Ordered Organic Semiconductor Thin Film. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14965-14971.  | 3.1  | 33        |
| 117 | Modification of Ultrathin NPB Interlayer on the Electronic Structures of the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /NPB/MoO <sub>3</sub> Interface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17863-17871.                      | 3.1  | 32        |
| 118 | Dependence of device performance on the thickness of compact TiO <sub>2</sub> layer in perovskite/TiO <sub>2</sub> planar heterojunction solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, 043105.                          | 2.0  | 31        |
| 119 | Degradation behavior of planar heterojunction CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Synthetic Metals</i> , 2017, 227, 43-51.   | 3.9  | 31        |
| 120 | Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48095-48102.                       | 8.0  | 30        |
| 121 | Interfacial electronic structures of MoO <sub>x</sub> /mixed perovskite photodetector. <i>Organic Electronics</i> , 2019, 65, 162-169.   | 2.6  | 30        |
| 122 | Polymer-Decorated 2D MoS <sub>2</sub> Synaptic Transistors for Biological Bipolar Metaplasticities Emulation*. <i>Chinese Physics Letters</i> , 2020, 37, 088501.  | 3.3  | 30        |
| 123 | High-performance photodetectors based on CVD-grown high-quality SnS <sub>2</sub> nanosheets. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.  | 2.3  | 29        |
| 124 | Theoretical prediction of double perovskite Cs <sub>2</sub> Ag <sub>x</sub> Cu <sub>1-x</sub> In <sub>y</sub> Tb <sub>1-y</sub> Cl <sub>6</sub> for infrared detection. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 265302.                | 2.8  | 29        |
| 125 | Vertical Phase Separation Structure for High-Performance Organic Thin-Film Transistors: Mechanism, Optimization Strategy, and Large-Area Fabrication toward Flexible and Stretchable Electronics. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 29        |
| 126 | Simultaneously enhanced durability and performance by employing dopamine copolymerized PEDOT with high work function and water-proofness for inverted perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2311-2318.          | 5.5  | 28        |



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|-----|---|------|-----------|
| 127 | Serpentine Co <sub>3</sub> Ni <sub>3-x</sub> Ge <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> nanosheets with tuned electronic energy bands for highly efficient oxygen evolution reaction in alkaline and neutral electrolytes. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118184. | 20.2 | 28        |
| 128 | Layer-by-layer slot-die coated high-efficiency organic solar cells processed using twin boiling point solvents under ambient condition. <i>Nano Research</i> , 2021, 14, 4236-4242.   | 10.4 | 28        |
| 129 | High-quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin film fabricated via intramolecular exchange for efficient planar heterojunction perovskite solar cells. <i>Organic Electronics</i> , 2016, 39, 304-310.  | 2.6  | 27        |
| 130 | Polymer-electrolyte-gated nanowire synaptic transistors for neuromorphic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.   | 2.3  | 27        |
| 131 | γ-ray Radiation on Flexible Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 7318-7324.   | 5.1  | 27        |
| 132 | Theoretical study on the effect of the optical properties and electronic structure for the Bi-doped CsPbBr <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 205504.  | 1.8  | 27        |
| 133 | Solution-processed ultra-flexible C8-BTBT organic thin-film transistors with the corrected mobility over 18 Å <sup>2</sup> /(V s). <i>Science Bulletin</i> , 2020, 65, 791-795.   | 9.0  | 27        |
| 134 | Benefits of fullerene/SnO <sub>2</sub> bilayers as electron transport layer for efficient planar perovskite solar cells. <i>Organic Electronics</i> , 2018, 58, 294-300.  | 2.6  | 26        |
| 135 | Structures, Properties, and Device Applications for [1]Benzothieno[3,2-b]Benzothiophene Derivatives. <i>Advanced Functional Materials</i> , 2022, 32, .   | 14.9 | 26        |
| 136 | Solvent-induced crystallization for hybrid perovskite thin-film photodetector with high-performance and low working voltage. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 375101.  | 2.8  | 25        |
| 137 | Enhancing the performance of planar heterojunction perovskite solar cells using stable semiquinone and amine radical modified hole transport layer. <i>Journal of Power Sources</i> , 2018, 390, 134-141.   | 7.8  | 25        |
| 138 | Zn-Doped Cu(100) facet with efficient catalytic ability for the CO <sub>2</sub> electroreduction to ethylene. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21341-21348.   | 2.8  | 25        |
| 139 | Efficient and stable perovskite-silicon two-terminal tandem solar cells. <i>Rare Metals</i> , 2020, 39, 745-747.  | 7.1  | 25        |
| 140 | Isothermal Crystallization Behavior of the Poly(L-lactide) Block in Poly(L-lactide)-Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 38, 1251-1257.   | 2.7  | 24        |
| 141 | Molecular-Orientation-Induced Rapid Roughening and Morphology Transition in Organic Semiconductor Thin-Film Growth. <i>Scientific Reports</i> , 2015, 5, 9441.  | 3.3  | 24        |
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