

Tonggang Jiu

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.

59
papers

1,919
citations

22
h-index

43
g-index

61
ext. papers

2,254
ext. citations

8.9
avg, IF

4.93
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 59 | Graphdiyne-Based Materials in Solar Cells Applications 2022 , 287-314 | | |
| 58 | Growth of 2D passivation layer in FAPbI ₃ perovskite solar cells for high open-circuit voltage. <i>Nano Today</i> , 2022 , 42, 101357 | 17.9 | 4 |
| 57 | Growth of 1D Nanorod Perovskite for Surface Passivation in FAPbI Perovskite Solar Cells. <i>Small</i> , 2021 , e2104100 | 11 | 7 |
| 56 | Graphdiyne Oxide Modified NiOx for Enhanced Charge Extraction in Inverted Planar MAPbI ₃ Perovskite Solar Cells. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1309 | 2.2 | 0 |
| 55 | Control of the Surface Disorder by Ion-Exchange to Achieve High Open-Circuit Voltage in HC(NH) PBI Perovskite Solar Cell.. <i>Small Methods</i> , 2021 , 5, e2101079 | 12.8 | 3 |
| 54 | Conjugated Polyelectrolyte Combined with Ionic Liquid as the Hole Transport Layer for Efficient Inverted Perovskite Solar Cells. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 036503 | 3.9 | 0 |
| 53 | Interfacial Carrier-Transfer Channel Optimization Based on Hydrogen Bonds for High-Performance Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3881-3890 | 6.1 | 2 |
| 52 | Tris(pentafluorophenyl)borane-Modified P3CT-K as an Efficient Hole-Transport Layer for Inverted Planar MAPbI ₃ Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100107 | 5.9 | 6 |
| 51 | Improved interfacial property by small molecule ethanediamine for high performance inverted planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 54, 467-474 | 12 | 5 |
| 50 | Graphdiyne oxide doped SnO ₂ electron transport layer for high performance perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6913-6922 | 7.8 | 2 |
| 49 | Solution-processed PbCdS nanocrystals as a novel hole transport material for inverted CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Solar Energy</i> , 2021 , 216, 321-328 | 6.8 | 1 |
| 48 | Non-planar tetrathiafulvalene derivative modified hole transporting layer for efficient organic solar cells with improved fill factor. <i>Solar Energy</i> , 2021 , 224, 883-888 | 6.8 | 1 |
| 47 | Highly-improved performance of inverted planar perovskite solar cells by glucose modification. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5894-5903 | 7.1 | 10 |
| 46 | Enhanced photocurrent in heterostructures formed between CH ₃ NH ₃ PbI perovskite films and graphdiyne. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6239-6246 | 3.6 | 6 |
| 45 | Graphdiyne Derivative as Multifunctional Solid Additive in Binary Organic Solar Cells with 17.3% Efficiency and High Reproductivity. <i>Advanced Materials</i> , 2020 , 32, e1907604 | 24 | 245 |
| 44 | Grain boundary passivation with triazine-graphdiyne to improve perovskite solar cell performance. <i>Science China Materials</i> , 2020 , 63, 2465-2476 | 7.1 | 17 |
| 43 | The Possible Side Reaction in the Annealing Process of Perovskite Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35043-35048 | 9.5 | 3 |

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| 42 | Simultaneous hole transport and defect passivation enabled by a dopant-free single polymer for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21036-21043 | 13 | 15 |
| 41 | TTA as a potential hole transport layer for application in conventional polymer solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 42, 210-216 | 12 | 8 |
| 40 | Graphdiyne-Based Materials: Preparation and Application for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1803202 | 24 | 68 |
| 39 | Performance Enhancement of Conventional Polymer Solar Cells with TTF-py-Modified PEDOT:PSS Film as the Hole Transport Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6577-6583 | 6.1 | 7 |
| 38 | Inverted MAPbI ₃ Perovskite Solar Cells with Graphdiyne Derivative-Incorporated Electron Transport Layers Exceeding 20% Efficiency. <i>Solar Rrl</i> , 2019 , 3, 1900241 | 7.1 | 26 |
| 37 | Chemical modification: Toward solubility and processability of graphdiyne. <i>Nano Energy</i> , 2019 , 64, 103932 | 7.1 | 22 |
| 36 | Graphdiyne Containing Atomically Precise N Atoms for Efficient Anchoring of Lithium Ion. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2608-2617 | 9.5 | 66 |
| 35 | Graphdiyne-Doped P3CT-K as an Efficient Hole-Transport Layer for MAPbI Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2626-2631 | 9.5 | 45 |
| 34 | Highly efficient regular polymer solar cells based on Li-TFSI doping ZnO as electron-transporting interlayers. <i>Solar Energy</i> , 2018 , 169, 49-54 | 6.8 | 8 |
| 33 | Improved electron transport in MAPbI ₃ perovskite solar cells based on dual doping graphdiyne. <i>Nano Energy</i> , 2018 , 46, 331-337 | 17.1 | 113 |
| 32 | Solution prepared O-doped ZnS nanocrystals: Structure characterization, energy level engineering and interfacial application in polymer solar cells. <i>Solar Energy</i> , 2018 , 160, 353-359 | 6.8 | 6 |
| 31 | Controllable Spatial Configuration on Cathode Interface for Enhanced Photovoltaic Performance and Device Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17401-17408 | 9.5 | 10 |
| 30 | Facile preparation and characterization of ZnCdS nanocrystals for interfacial applications in photovoltaic devices. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 353-360 | 9.3 | 22 |
| 29 | The influence of ionic radius of interfacial molecule on device performances of polymer solar cells. <i>Solar Energy</i> , 2018 , 170, 906-912 | 6.8 | 3 |
| 28 | Inverted CH ₃ NH ₃ PbI ₃ perovskite solar cells based on solution-processed V ₂ O ₅ film combined with P3CT salt as hole transport layer. <i>Materials Today Energy</i> , 2018 , 9, 487-495 | 7 | 19 |
| 27 | Highly Conjugated Three-Dimensional Covalent Organic Frameworks Based on Spirobifluorene for Perovskite Solar Cell Enhancement. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10016-10024 | 16.4 | 111 |
| 26 | Graphdiyne as a Host Active Material for Perovskite Solar Cell Application. <i>Nano Letters</i> , 2018 , 18, 6941-6947 | 6.5 | 84 |
| 25 | Studies of Graphdiyne-ZnO Nanocomposite Material and Application in Polymer Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800211 | 7.1 | 12 |

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| 24 | Triazine-graphdiyne: A new nitrogen-carbonous material and its application as an advanced rechargeable battery anode. <i>Carbon</i> , 2018 , 137, 442-450 | 10.4 | 52 |
| 23 | Performance Enhancement of Inverted Perovskite Solar Cells Based on Smooth and Compact PCBM:SnO Electron Transport Layers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20128-20135 | 9.5 | 29 |
| 22 | Ternary CuZnS Nanocrystals: Synthesis, Characterization, and Interfacial Application in Perovskite Solar Cells. <i>Inorganic Chemistry</i> , 2018 , 57, 8375-8381 | 5.1 | 11 |
| 21 | Synthesis of Chlorine-Substituted Graphdiyne and Applications for Lithium-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10740-10745 | 16.4 | 165 |
| 20 | New method for the synthesis of a highly-conjugated acene material and its application in Perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2261-2264 | 7.8 | 6 |
| 19 | Tetrathiafulvalene derivative as a new hole-transporting material for highly efficient perovskite solar cell. <i>Dyes and Pigments</i> , 2017 , 147, 113-119 | 4.6 | 30 |
| 18 | Inverted polymer solar cells with enhanced fill factor by inserting the potassium stearate interfacial modification layer. <i>Applied Physics Letters</i> , 2016 , 108, 181602 | 3.4 | 14 |
| 17 | Chlorobenzene vapor assistant annealing method for fabricating high quality perovskite films. <i>Organic Electronics</i> , 2016 , 34, 97-103 | 3.5 | 37 |
| 16 | Polyelectrolyte based hole-transporting materials for high performance solution processed planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15024-15029 | 13 | 83 |
| 15 | Highly efficient electron transport obtained by doping PCBM with graphdiyne in planar-heterojunction perovskite solar cells. <i>Nano Letters</i> , 2015 , 15, 2756-62 | 11.5 | 286 |
| 14 | Dithiol treatments enhancing the efficiency of hybrid solar cells based on PTB7 and CdSe nanorods. <i>Nano Research</i> , 2015 , 8, 3045-3053 | 10 | 5 |
| 13 | High-performance inverted solar cells based on blend films of ZnO Nanoparticles and TiO(2) nanorods as a cathode buffer layer. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4074-80 | 9.5 | 17 |
| 12 | Preparation and characterization of MoO3 hole-injection layer for organic solar cell fabrication and optimization. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 603-609 | 6.4 | 44 |
| 11 | Improving efficiency by hybrid TiO(2) nanorods with 1,10-phenanthroline as a cathode buffer layer for inverted organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 739-44 | 9.5 | 29 |
| 10 | Highly efficient inverted polymer solar cells using fullerene derivative modified TiO2 nanorods as the buffer layer. <i>RSC Advances</i> , 2014 , 4, 19529 | 3.7 | 13 |
| 9 | Solvents induced ZnO nanoparticles aggregation associated with their interfacial effect on organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18172-9 | 9.5 | 31 |
| 8 | Performance enhancement of inverted polymer solar cells with fullerene ester derivant-modified ZnO film as cathode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 36-41 | 6.4 | 27 |
| 7 | Interface Modification of ZnO-Based Inverted PTB7:PC71BM Organic Solar Cells by Cesium Stearate and Simultaneous Enhancement of Device Parameters. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1331-1337 | 8.3 | 51 |

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| 6 | A Small-Molecule Zwitterionic Electrolyte without a π -Delocalized Unit as a Charge-Injection Layer for High-Performance PLEDs. <i>Angewandte Chemie</i> , 2013 , 125, 3501-3504 | 3.6 | 2 |
| 5 | Molecular modeling of poly(p-phenylenevinylene): Synthesis and photophysical properties of oligomers. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 911-924 | 2.5 | 15 |
| 4 | Graphdiyne oxide modified nano CuO as inorganic hole transport layer for efficient and stable organic solar cells. <i>2D Materials</i> , | 5.9 | 1 |
| 3 | Interfacial Modification by Low-Temperature Anchoring Surface Uncoordinated Pb for Efficient FAPbI ₃ Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> ,2100510 | 5.9 | 2 |
| 2 | Graphdiyne oxide doping for aggregation control of hole-transport nanolayer in inverted perovskite solar cells. <i>Nano Research</i> ,1 | 10 | 1 |
| 1 | Graphdiyne oxide-accelerated charge carrier transfer and separation at the interface for efficient binary organic solar cells. <i>Science China Materials</i> ,1 | 7.1 | 0 |