

Song Chen

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

4,379
citations

172457

29
h-index

182427

51
g-index

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all docs

51
docs citations

51
times ranked

5816
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | High-efficiency inverted dithienogermole-thienopyrrolodione-based polymer solar cells. <i>Nature Photonics</i> , 2012, 6, 115-120. | 31.4 | 903 |
| 2 | Dithienogermole As a Fused Electron Donor in Bulk Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 10062-10065. | 13.7 | 693 |
| 3 | Solution-Processed Nickel Oxide Hole Transport Layers in High Efficiency Polymer Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2013, 23, 2993-3001. | 14.9 | 461 |
| 4 | Metal oxides for interface engineering in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 24202. | 6.7 | 331 |
| 5 | Inverted Polymer Solar Cells with Reduced Interface Recombination. <i>Advanced Energy Materials</i> , 2012, 2, 1333-1337. | 19.5 | 210 |
| 6 | Properties of interlayer for organic photovoltaics. <i>Materials Today</i> , 2013, 16, 424-432. | 14.2 | 168 |
| 7 | On the degradation mechanisms of quantum-dot light-emitting diodes. <i>Nature Communications</i> , 2019, 10, 765. | 12.8 | 167 |
| 8 | High efficiency solution-processed thin-film Cu(In,Ga)(Se,S) ₂ solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 3674-3681. | 30.8 | 105 |
| 9 | Study of Arylamine-Substituted Porphyrins as Hole-Transporting Materials in High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13231-13239. | 8.0 | 97 |
| 10 | Dielectric Effect on the Photovoltage Loss in Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2014, 26, 6125-6131. | 21.0 | 95 |
| 11 | Structural engineering of porphyrin-based small molecules as donors for efficient organic solar cells. <i>Chemical Science</i> , 2016, 7, 4301-4307. | 7.4 | 72 |
| 12 | Porphyrin-based thick-film bulk-heterojunction solar cells for indoor light harvesting. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9111-9118. | 5.5 | 67 |
| 13 | Solution-processed new porphyrin-based small molecules as electron donors for highly efficient organic photovoltaics. <i>Chemical Communications</i> , 2015, 51, 14439-14442. | 4.1 | 66 |
| 14 | New Terthiophene-Conjugated Porphyrin Donors for Highly Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30176-30183. | 8.0 | 61 |
| 15 | Photo-Carrier Recombination in Polymer Solar Cells Based on P3HT and Silole-Based Copolymer. <i>Advanced Energy Materials</i> , 2011, 1, 963-969. | 19.5 | 52 |
| 16 | Loss Mechanisms in Thick-Film Low-Bandgap Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 909-916. | 19.5 | 52 |
| 17 | Defect-Induced Loss Mechanisms in Polymer-Inorganic Planar Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7215-7218. | 8.0 | 51 |
| 18 | Charge transfer-induced photoluminescence in ZnO nanoparticles. <i>Nanoscale</i> , 2019, 11, 8736-8743. | 5.6 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Origin of Subthreshold Turn-On in Quantum-Dot Light-Emitting Diodes. ACS Nano, 2019, 13, 8229-8236. | 14.6 | 46 |
| 20 | On the Study of Exciton Binding Energy with Direct Charge Generation in Photovoltaic Polymers. Advanced Electronic Materials, 2016, 2, 1600200. | 5.1 | 45 |
| 21 | A visible-near-infrared absorbing A ₂ -D ₁ -D ₂ -A type dimeric-porphyrin donor for high-performance organic solar cells. Journal of Materials Chemistry A, 2017, 5, 25460-25468. | 10.3 | 45 |
| 22 | Design-Device Approach Affords Panchromatic Co-Sensitized Solar Cells. Advanced Energy Materials, 2019, 9, 1802820. | 19.5 | 40 |
| 23 | Solution processed multilayer cadmium-free blue/violet emitting quantum dots light emitting diodes. Applied Physics Letters, 2012, 101, 053303. | 3.3 | 39 |
| 24 | Improved Photovoltaic Properties of Donor-Acceptor Copolymers by Introducing Quinoxalino[2,3-b]porphyrin as a Light-Harvesting Unit. Macromolecules, 2015, 48, 287-296. | 4.8 | 38 |
| 25 | High-detectivity panchromatic photodetectors for the near infrared region based on a dimeric porphyrin small molecule. Journal of Materials Chemistry C, 2018, 6, 3341-3345. | 5.5 | 37 |
| 26 | Energy Level Alignment and Sub-Bandgap Charge Generation in Polymer:Fullerene Bulk Heterojunction Solar Cells. Advanced Materials, 2013, 25, 2434-2439. | 21.0 | 35 |
| 27 | Positive Aging Effect of ZnO Nanoparticles Induced by Surface Stabilization. Journal of Physical Chemistry Letters, 2020, 11, 5863-5870. | 4.6 | 34 |
| 28 | Phenylene-bridged peryleneimide-porphyrin acceptors for non-fullerene organic solar cells. Sustainable Energy and Fuels, 2018, 2, 2616-2624. | 4.9 | 30 |
| 29 | Bis[di(4-methoxyphenyl)amino]carbazole-capped indacenodithiophenes as hole transport materials for highly efficient perovskite solar cells: the pronounced positioning effect of a donor group on the cell performance. Journal of Materials Chemistry A, 2019, 7, 10200-10205. | 10.3 | 30 |
| 30 | Hierarchical Assembly of Nanocellulose into Filaments by Flow-Assisted Alignment and Interfacial Complexation: Conquering the Conflicts between Strength and Toughness. ACS Applied Materials & Interfaces, 2020, 12, 32090-32098. | 8.0 | 29 |
| 31 | Highly-Transparent and True-Colored Semitransparent Indoor Photovoltaic Cells. Small Methods, 2020, 4, 2000136. | 8.6 | 28 |
| 32 | Hole injection polymer effect on degradation of organic light-emitting diodes. Organic Electronics, 2013, 14, 2518-2522. | 2.6 | 26 |
| 33 | Luminescence and Stability Enhancement of CsPbBr ₃ Perovskite Quantum Dots through Surface Sacrificial Coating. Advanced Optical Materials, 2021, 9, 2100474. | 7.3 | 22 |
| 34 | Multiple electron transporting layers and their excellent properties based on organic solar cell. Scientific Reports, 2017, 7, 9571. | 3.3 | 20 |
| 35 | Understanding the performance and loss-mechanisms in donor-acceptor polymer based solar cells: Photocurrent generation, charge separation and carrier transport. Solar Energy Materials and Solar Cells, 2011, 95, 2502-2510. | 6.2 | 16 |
| 36 | Invited Paper: Key Challenges towards the Commercialization of Quantum-Dot Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2017, 48, 55-57. | 0.3 | 15 |

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|----|---|------|-----------|
| 37 | Highly Stable SnO ₂ -Based Quantum-Dot Light-Emitting Diodes with the Conventional Device Structure. ACS Nano, 2022, 16, 9631-9639. | 14.6 | 14 |
| 38 | Synthesis and characterization of porphyrin-based D π A conjugated polymers for polymer solar cells. Journal of Polymer Science Part A, 2013, 51, 2243-2251. | 2.3 | 12 |
| 39 | Direct Observation of the Charge Transfer States from a Non-Fullerene Organic Solar Cell with a Small Driving Force. Journal of Physical Chemistry Letters, 2021, 12, 10595-10602. | 4.6 | 12 |
| 40 | Functionalized Imidazole-Fused Porphyrin Donor-Based Dyes: Effect of Linker and Acceptor on Optoelectronic and Photovoltaic Properties. ChemistrySelect, 2018, 3, 2558-2564. | 1.5 | 11 |
| 41 | Perovskite Solar Cells with Front Surface Gradient. Advanced Energy Materials, 2021, 11, 2101080. | 19.5 | 11 |
| 42 | Cupric oxide nanowires assembled by nanoparticles in situ with enhancing electrocatalytic oxidation of ascorbic acid. Applied Surface Science, 2014, 292, 291-296. | 6.1 | 8 |
| 43 | Tuning electronic properties of molecular acceptor-porphyrin-acceptor donors via linkage structural engineering. Organic Electronics, 2019, 73, 146-151. | 2.6 | 8 |
| 44 | Inverted Polymer Solar Cells. IEEE Photonics Journal, 2012, 4, 625-628. | 2.0 | 6 |
| 45 | Perovskite Quantum Dots with Ultrahigh Solid-State Photoluminescence Quantum Efficiency, Superior Stability, and Uncompromised Electrical Conductivity. Journal of Physical Chemistry Letters, 2021, 12, 9115-9123. | 4.6 | 6 |
| 46 | Nanocrystal-enabled front surface bandgap gradient for the reduction of surface recombination in inverted perovskite solar cells. Solar Rrl, 2021, 5, 2100489. | 5.8 | 3 |
| 47 | Structure influence of alkyl chains of thienothiophene-porphyrins on the performance of organic solar cells. Materials Reports Energy, 2021, 1, 100066. | 3.2 | 2 |
| 48 | Energy Level Alignment and Sub-Bandgap Charge Generation in Polymer:Fullerene Bulk Heterojunction Solar Cells (Adv. Mater. 17/2013). Advanced Materials, 2013, 25, 2433-2433. | 21.0 | 1 |