# Yunpeng Qin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9448588/publications.pdf

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|---|---|---|---|
| 30 papers | 4,142 citations | 218677 26 h-index | 454955 30 g-index |
| 30 all docs | 30 docs citations | 30 times ranked | 3517 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fine-Tuned Photoactive and Interconnection Layers for Achieving over 13% Efficiency in a Fullerene-Free Tandem Organic Solar Cell. Journal of the American Chemical Society, 2017, 139, 7302-7309. | 13.7 | 427 |
| 2 | Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. Advanced Materials, 2016, 28, 8283-8287. | 21.0 | 421 |
| 3 | A Highly Efficient Nonâ€Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fineâ€Tuned Holeâ€Transporting Layer. Advanced Materials, 2018, 30, e1801801. | 21.0 | 360 |
| 4 | Efficient Charge Transfer and Fineâ€Tuned Energy Level Alignment in a THFâ€Processed Fullereneâ€Free Organic Solar Cell with 11.3% Efficiency. Advanced Materials, 2017, 29, 1604241. | 21.0 | 305 |
| 5 | Highly Efficient Fullereneâ€Free Polymer Solar Cells Fabricated with Polythiophene Derivative. Advanced Materials, 2016, 28, 9416-9422. | 21.0 | 303 |
| 6 | A molecular interactionâ€“diffusion framework for predicting organic solar cell stability. Nature Materials, 2021, 20, 525-532. | 27.5 | 212 |
| 7 | Design and application of volatilizable solid additives in non-fullerene organic solar cells. Nature Communications, 2018, 9, 4645. | 12.8 | 205 |
| 8 | Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. Science China Chemistry, 2018, 61, 1328-1337. | 8.2 | 177 |
| 9 | Critical Role of Molecular Electrostatic Potential on Charge Generation in Organic Solar Cells. Chinese Journal of Chemistry, 2018, 36, 491-494. | 4.9 | 163 |
| 10 | Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Lowâ€Bandâ€Gap Polymer with Fineâ€Tuned Properties. Advanced Materials, 2016, 28, 5133-5138. | 21.0 | 144 |
| 11 | Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2003141. | 19.5 | 144 |
| 12 | A Fluorinated Polythiophene Derivative with Stabilized Backbone Conformation for Highly Efficient Fullerene and Non-Fullerene Polymer Solar Cells. Macromolecules, 2016, 49, 2993-3000. | 4.8 | 141 |
| 13 | Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie - International Edition, 2021, 60, 2322-2329. | 13.8 | 138 |
| 14 | The performance-stability conundrum of BTP-based organic solar cells. Joule, 2021, 5, 2129-2147. | 24.0 | 133 |
| 15 | Achieving 12.8% Efficiency by Simultaneously Improving Openâ€Circuit Voltage and Shortâ€Circuit Current Density in Tandem Organic Solar Cells. Advanced Materials, 2017, 29, 1606340. | 21.0 | 100 |
| 16 | Modulation of Morphological, Mechanical, and Photovoltaic Properties of Ternary Organic Photovoltaic Blends for Optimum Operation. Advanced Energy Materials, 2021, 11, 2003506. | 19.5 | 92 |
| 17 | The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. Angewandte Chemie - International Edition, 2018, 57, 12911-12915. | 13.8 | 87 |
| 18 | Molecular Engineering and Morphology Control of Polythiophene:Nonfullerene Acceptor Blends for Highâ€Performance Solar Cells. Advanced Energy Materials, 2020, 10, 2002572. | 19.5 | 83 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. Macromolecules, 2019, 52, 4464-4474. | 4.8 | 75 |
| 20 | Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901823. | 19.5 | 72 |
| 21 | Low Temperature Aggregation Transitions in N3 and Y6 Acceptors Enable Doubleâ€Annealing Method That Yields Hierarchical Morphology and Superior Efficiency in Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2005011. | 14.9 | 66 |
| 22 | Control of Mesoscale Morphology and Photovoltaic Performance in Diketopyrrolopyrroleâ€Based Small Band Gap Terpolymers. Advanced Energy Materials, 2017, 7, 1601138. | 19.5 | 59 |
| 23 | From Binary to Ternary: Improving the External Quantum Efficiency of Smallâ€Molecule Acceptorâ€Based Polymer Solar Cells with a Minute Amount of Fullerene Sensitization. Advanced Energy Materials, 2017, 7, 1700328. | 19.5 | 54 |
| 24 | A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 4324-4330. | 10.3 | 48 |
| 25 | Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. Science China Materials, 2015, 58, 953-960. | 6.3 | 41 |
| 26 | Designing Simple Conjugated Polymers for Scalable and Efficient Organic Solar Cells. ChemSusChem, 2021, 14, 3561-3568. | 6.8 | 36 |
| 27 | Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie, 2021, 133, 2352-2359. | 2.0 | 21 |
| 28 | Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. Journal of Materials Chemistry A, 2021, 9, 13653-13660. | 10.3 | 21 |
| 29 | The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. Angewandte Chemie, 2018, 130, 13093-13097. | 2.0 | 8 |
| 30 | Silver Nanowire Composite Electrode Enabling Highly Flexible, Robust Organic Photovoltaics. Solar Rrl, 2022, 6, . | 5.8 | 6 |