

Dan Ouyang

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,199
citations

430874

18
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

1900
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. <i>Advanced Materials</i> , 2021, 33, e2008820.	21.0	119
2	High-Quality Cuboid $\text{CH}_3\text{NH}_3\text{PbI}_3$ Single Crystals for High Performance X-Ray and Photon Detectors. <i>Advanced Functional Materials</i> , 2019, 29, 1806984.	14.9	115
3	Strategic Synthesis of Ultrasmall NiCo_2O_4 NPs as Hole Transport Layer for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702722.	19.5	112
4	Solution-Processed Metal Oxide Nanocrystals as Carrier Transport Layers in Organic and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1804660.	14.9	105
5	High Phase Stability in CsPbI_3 Enabled by Pb^{I} Octahedra Anchors for Efficient Inorganic Perovskite Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2000186.	21.0	90
6	Emerging Novel Metal Electrodes for Photovoltaic Applications. <i>Small</i> , 2018, 14, e1703140.	10.0	73
7	Thick TiO_2 -Based Top Electron Transport Layer on Perovskite for Highly Efficient and Stable Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 2891-2898.	17.4	71
8	Multifunctional Synthesis Approach of $\text{In}:\text{CuCrO}_2$ Nanoparticles for Hole Transport Layer in High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1902600.	14.9	70
9	High Performance Flexible Transparent Electrode via One-Step Multifunctional Treatment for Ag Nanonetwork Composites Semi-Embedded in Low-Temperature-Processed Substrate for Highly Performed Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020, 10, 1903919.	19.5	58
10	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. <i>Science China Chemistry</i> , 2017, 60, 472-489.	8.2	52
11	Solution-Processed Ternary Oxides as Carrier Transport/Injection Layers in Optoelectronics. <i>Advanced Energy Materials</i> , 2020, 10, 1900903.	19.5	44
12	Triple Interface Passivation Strategy-Enabled Efficient and Stable Inverted Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000478.	8.6	44
13	Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites. <i>Advanced Energy Materials</i> , 2018, 8, 1801954.	19.5	40
14	A General Method: Designing a Hypocrystalline Hydroxide Intermediate to Achieve Ultrasmall and Well-Dispersed Ternary Metal Oxide for Efficient Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1904684.	14.9	39
15	Highly efficient planar perovskite solar cells achieved by simultaneous defect engineering and formation kinetic control. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23865-23874.	10.3	37
16	An efficacious multifunction codoping strategy on a room-temperature solution-processed hole transport layer for realizing high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 371-379.	10.3	30
17	Critical Role of Functional Groups in Defect Passivation and Energy Band Modulation in Efficient and Stable Inverted Perovskite Solar Cells Exceeding 21% Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57165-57173.	8.0	24
18	Recent progress of interconnecting layer for tandem organic solar cells. <i>Science China Chemistry</i> , 2017, 60, 460-471.	8.2	21

#	ARTICLE	IF	CITATIONS
19	Soldering Grain Boundaries Yields Inverted Perovskite Solar Cells with Enhanced Open-Circuit Voltages. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900474.	3.7	17
20	Efficient Gradient Potential Top Electron Transport Structures Achieved by Combining an Oxide Family for Inverted Perovskite Solar Cells with High Efficiency and Stability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27179-27187.	8.0	13
21	Hybrid 3D Nanostructure-Based Hole Transport Layer for Highly Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16611-16619.	8.0	10
22	Realizing the ultimate goal of fully solution-processed organic solar cells: a compatible self-sintering method to achieve silver back electrode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6083-6091.	10.3	7
23	Solar Cells: High Phase Stability in CsPbI ₃ Enabled by PbI ₂ Octahedra Anchors for Efficient Inorganic Perovskite Photovoltaics (<i>Adv. Mater.</i> 24/2020). <i>Advanced Materials</i> , 2020, 32, 2070185.	21.0	3
24	Organic Photovoltaics: High Performance Flexible Transparent Electrode via One-Step Multifunctional Treatment for Ag Nanonetwork Composites Semi-Embedded in Low-Temperature-Processed Substrate for Highly Performed Organic Photovoltaics (<i>Adv. Energy Mater.</i> 10/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2001000.	19.5	3
25	Solar Cells: Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites (<i>Adv. Energy Mater.</i> 36/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870155.	19.5	2