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**Boosted charge extraction of NbO<sub>x</sub>-enveloped SnO<sub>2</sub> nanocrystals enables 24% efficient planar perovskite solar cells**

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#	Paper	IF	Citations
74	Highly efficient flexible perovskite solar cells with vacuum-assisted low-temperature annealed SnO <sub>2</sub> electron transport layer. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 67, 1-1	12	10
73	Heterojunction Engineering and Ideal Factor Optimization Toward Efficient MINP Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2102724	21.8	7
72	Methodologies for >30% Efficient Perovskite Solar Cells via Enhancement of Voltage and Fill Factor. <i>Solar Rrl</i> , 2100767	7.1	4
71	Reducing energy loss via adjusting the anode work function and perovskite layer morphology for the efficient and stable hole transporting layer-free perovskite solar cells. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133948	14.7	2
70	Multiple bonding effects of 1-methanesulfonyl-piperazine on the two-step processed perovskite towards efficient and stable solar cells. <i>Nano Energy</i> , <b>2022</b> , 93, 106856	17.1	4
69	A holistic sunscreen interface strategy to effectively improve the performance of perovskite solar cells and prevent lead leakage. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134566	14.7	9
68	5-Chloroindole as Interface Modifier to Improve the Efficiency and Stability of Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2100995	7.1	1
67	Collaborative strengthening by multi-functional molecule 3-thiophenboric acid for efficient and stable planar perovskite solar cells. <i>Chemical Engineering Journal</i> , <b>2022</b> , 135134	14.7	4
66	Efficient MA-free perovskite solar cells with balanced carrier transport achieved using 4-trifluorophenylammonium iodide. <i>Journal of Materials Chemistry A</i> ,	13	2
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63	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition.. <i>Advanced Materials</i> , <b>2022</b> , e2200276	24	11
62	Internal Encapsulation for Lead Halide Perovskite Films for Efficient and Very Stable Solar Cells. <i>Advanced Energy Materials</i> , 2200361	21.8	15
61	Pre-buried Additive for Cross-Layer Modification in Flexible Perovskite Solar Cells with Efficiency Exceeding 22.. <i>Advanced Materials</i> , <b>2022</b> , e2109879	24	25
60	Passivating buried interface with multifunctional novel ionic liquid containing simultaneously fluorinated anion and cation yielding stable perovskite solar cells over 23% efficiency. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 69, 659-666	12	5
59	Highly improved efficiency and stability of planar perovskite solar cells via bifunctional phytic acid dipotassium anchored SnO <sub>2</sub> electron transport layer. <i>Applied Surface Science</i> , <b>2022</b> , 588, 152943	6.7	4
58	Tailoring type-II all-in-one buried interface for 1.635V-voltage, all-inorganic CsPbBr <sub>3</sub> perovskite solar cells. <i>Nano Energy</i> , <b>2022</b> , 96, 107138	17.1	3

57	Record-Efficiency Flexible Perovskite Solar Cells Enabled by Multifunctional Organic Ions Interface Passivation.. <i>Advanced Materials</i> , <b>2022</b> , e2201681	24	39
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55	Managing interfacial properties of planar perovskite solar cells using Y3N@C80 endohedral metallofullerene. <i>Science China Materials</i> , 1	7.1	0
54	Defect Passivation through (β-Methylguanido)acetic Acid in Perovskite Solar Cell for High Operational Stability.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	1
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44	50 °C low-temperature ALD SnO <sub>2</sub> driven by H <sub>2</sub> O <sub>2</sub> for efficient perovskite and perovskite/silicon tandem solar cells. <i>Applied Physics Letters</i> , <b>2022</b> , 121, 033502	3.4	
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39	Understanding the Doping Effect in CsPbI <sub>2</sub> Br Solar Cells: Crystallization Kinetics, Defect Passivation and Energy Level Alignment.	0
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- 1 Hole-Transport Management Enables 23%-Efficient and Stable Inverted Perovskite Solar Cells with 84% Fill Factor. **2023**, 15,