

Cheng-Hung Hou

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

770
citations

566801

15
h-index

552369

26
g-index

32
all docs

32
docs citations

32
times ranked

749
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright and stable light-emitting diodes made with perovskite nanocrystals stabilized in metal-organic frameworks. <i>Nature Photonics</i> , 2021, 15, 843-849.	15.6	117
2	Depth-dependent defect manipulation in perovskites for high-performance solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 6526-6535.	15.6	114
3	Chemical Polishing of Perovskite Surface Enhances Photovoltaic Performances. <i>Journal of the American Chemical Society</i> , 2022, 144, 1700-1708.	6.6	88
4	Fast growth of large-grain and continuous MoS ₂ films through a self-capping vapor-liquid-solid method. <i>Nature Communications</i> , 2020, 11, 3682.	5.8	76
5	Slow Passivation and Inverted Hysteresis for Hybrid Tin Perovskite Solar Cells Attaining 13.5% via Sequential Deposition. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10106-10111.	2.1	57
6	Atomic layer deposition of NiO hole-transporting layers for polymer solar cells. <i>Nanotechnology</i> , 2015, 26, 385201.	1.3	31
7	Robust Unencapsulated Perovskite Solar Cells Protected by a Fluorinated Fullerene Electron Transporting Layer. <i>ACS Energy Letters</i> , 2021, 6, 3376-3385.	8.8	27
8	<i>In situ</i> unraveling of the effect of the dynamic chemical state on selective CO ₂ reduction upon zinc electrocatalysts. <i>Nanoscale</i> , 2020, 12, 18013-18021.	2.8	23
9	Work-Function-Tunable Electron Transport Layer of Molecule-Capped Metal Oxide for a High-Efficiency and Stable p^{n} Perovskite Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45936-45949.	4.0	23
10	Cesium Lead Halide Perovskite Nanocrystals Assembled in Metal-Organic Frameworks for Stable Blue Light Emitting Diodes. <i>Advanced Science</i> , 2022, 9, e2105850.	5.6	23
11	Validated Analysis of Component Distribution Inside Perovskite Solar Cells and Its Utility in Unveiling Factors of Device Performance and Degradation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22730-22740.	4.0	20
12	Superior Stability and Emission Quantum Yield (23% \pm 3%) of Single-Layer 2D Tin Perovskite TEA ₂ SnI ₄ via Thiocyanate Passivation. <i>Small</i> , 2020, 16, e2000903.	5.2	19
13	Catalytic metal-induced crystallization of sol-gel metal oxides for high-efficiency flexible perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16450-16457.	5.2	18
14	How can a hydrophobic polymer PTAA serve as a hole-transport layer for an inverted tin perovskite solar cell?. <i>Chemical Engineering Journal</i> , 2022, 450, 138037.	6.6	18
15	Engineering Antifouling and Antibacterial Stainless Steel for Orthodontic Appliances through Layer-by-Layer Deposition of Nanocomposite Coatings. <i>ACS Applied Bio Materials</i> , 2020, 3, 486-494.	2.3	17
16	Chloride gradient render carrier extraction of hole transport layer for high V and efficient inverted organometal halide perovskite solar cell. <i>Chemical Engineering Journal</i> , 2021, 409, 128100.	6.6	13
17	Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p^{n} Planar Solar Cell via Air-Processable Method. <i>Solar Rrl</i> , 2020, 4, 2000197.	3.1	12
18	Annealed Polycrystalline TiO ₂ Interlayer of the n-Si/TiO ₂ /Ni Photoanode for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2020, 3, 3902-3908.	2.5	10

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19	Substrate Lattice-Guided MoS ₂ Crystal Growth: Implications for van der Waals Epitaxy. ACS Applied Nano Materials, 2021, 4, 4930-4938.	2.4	9
20	Seed-Assisted Growth of Methylammonium-Free Perovskite for Efficient Inverted Perovskite Solar Cells. Small Methods, 2022, 6, e2200048.	4.6	9
21	Perfluorinated ionomer and poly(3,4-ethylenedioxythiophene) colloid as a hole transporting layer for optoelectronic devices. Journal of Materials Chemistry A, 2021, 9, 17967-17977.	5.2	8
22	Improving Thermal and Photostability of Polymer Solar Cells by Robust Interface Engineering. Small, 2022, 18, e2107834.	5.2	8
23	Atomic Layer Nucleation Engineering: Inhibitor-Free Area-Selective Atomic Layer Deposition of Oxide and Nitride. Chemistry of Materials, 2021, 33, 5584-5590.	3.2	6
24	Heterocyclic-Additive-Activated Dinuclear Dysprosium Electrocatalysts for Heterogeneous Water Oxidation. Inorganic Chemistry, 2021, 60, 6930-6938.	1.9	5
25	Sandwich Evaporation-Solvent Annealing Fabrication of Highly Crystalline MAPbI ₃ Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 45355-45364.	4.0	5
26	Growth process control produces high-crystallinity and complete-reaction perovskite solar cells. RSC Advances, 2020, 10, 35898-35905.	1.7	4
27	In situ Observation of Electrodeposited Bimetallic p-Si Micropillar Array Photocathode for Solar-Driven Hydrogen Evolution. Solar Rrl, 2020, 4, 2000028.	3.1	3
28	Junction Engineering in Si Photoanodes for Efficient Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2022, 5, 8483-8491.	2.5	3
29	Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p-n Planar Solar Cell via Air-Processable Method. Solar Rrl, 2020, 4, 2070092.	3.1	2
30	Formamide iodide: a new cation additive for inhibiting γ -phase formation of formamidinium lead iodide perovskite. Materials Advances, 2021, 2, 2272-2277.	2.6	2
31	Revealing Performance Governing Factors of Perovskite Solar Cells via Artifact-Free ToF-SIMS Depth Profiles. , 0, , .		0
32	Revealing Performance Governing Factors of Perovskite Solar Cells via Artifact-Free ToF-SIMS Depth Profiles. , 0, , .		0