Congcong Wu

List of Publications by Year
in descending order

45 papers	3,666 citations	201385 27 h-index	223531 46 g-index
46 all docs	46 docs citations	46 times ranked	5391 citing authors

#	Article	IF	Citations
1	Silk fibroin induced homeotropic alignment of perovskite crystals toward high efficiency and stability. Nano Energy, 2022, 94, 106936.	8.2	25
2	Unraveling the irreversible transformation by nucleophilic substitution: A hint for fully transparent perovskite. EcoMat, 2022, 4, .	6.8	9
3	Paradigm ink with a temporally controllable processing-window for perovskite modules. Journal of Materials Chemistry A, 2022, 10, 14989-14999.	5.2	8
4	Interface Effects in Triazineâ€Based gâ€C₃N₄/MAPbI₃ Van der Waals Heterojunctions: A Firstâ€Principles Study. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	3
5	All Electrospray Printing of Carbonâ€Based Costâ€Effective Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2006803.	7.8	26
6	Selfâ€Powered Red/UV Narrowband Photodetector by Unbalanced Charge Carrier Transport Strategy. Advanced Functional Materials, 2021, 31, 2007016.	7.8	44
7	Volatile solution: the way toward scalable fabrication of perovskite solar cells?. Matter, 2021, 4, 775-793.	5.0	53
8	Strain-relaxed tetragonal MAPbI3 results in efficient mesoporous solar cells. Nano Energy, 2021, 83, 105788.	8.2	29
9	28.3%-efficiency perovskite/silicon tandem solar cell by optimal transparent electrode for high efficient semitransparent top cell. Nano Energy, 2021, 84, 105934.	8.2	93
10	â€œOne-key-resetâ€•recycling of whole perovskite solar cell. Matter, 2021, 4, 2522-2541.	5.0	31
11	Ionic Liquid Additiveâ€Assisted Highly Efficient Electron Transport Layerâ€Free Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100648.	3.1	10
12	Polydopamine-Modified Electrospun Polyvinylidene Fluoride Nanofiber Based Flexible Polymer Gel Electrolyte for Highly Stable Dye-Sensitized Solar Cells. ACS Omega, 2021, 6, 28663-28670.	1.6	10
13	Î²-Alanine-Anchored SnO₂ Inducing Facet Orientation for High-Efficiency Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 57163-57170.	4.0	18
14	Artemisinin (ART)-Induced â€œperovskite/perovskiteâ€•bilayer structured photovoltaics. Nano Energy, 2020, 78, 105133.	8.2	30
15	Two-dimensional hybrid organicâ€“inorganic perovskites as emergent ferroelectric materials. Journal of Applied Physics, 2020, 128, .	1.1	30
16	Isothermally crystallized perovskites at room-temperature. Energy and Environmental Science, 2020, 13, 3412-3422.	15.6	153
17	A Nonionic and Low-Entropic MA(MMA)nPbI3-Ink for Fast Crystallization of Perovskite Thin Films. Joule, 2020, 4, 615-630.	11.7	46
18	Nature of terrace edge states (TES) in lower-dimensional halide perovskite. Journal of Materials Chemistry A, 2020, 8, 7659-7670.	5.2	14

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19	Distinct conducting layer edge states in two-dimensional (2D) halide perovskite. Science Advances, 2019, 5, eaau3241.	4.7	62
20	Recent progress in fundamental understanding of halide perovskite semiconductors. Progress in Materials Science, 2019, 106, 100580.	16.0	95
21	Monocrystalline perovskite wafers/thin films for photovoltaic and transistor applications. Journal of Materials Chemistry A, 2019, 7, 24661-24690.	5.2	27
22	Enhanced Performance and Stability in DNA-Perovskite Heterostructure-Based Solar Cells. ACS Energy Letters, 2019, 4, 2646-2655.	8.8	45
23	Ultrahigh Durability Perovskite Solar Cells. Nano Letters, 2019, 19, 1251-1259.	4.5	30
24	Stable Efficiency Exceeding 20.6% for Inverted Perovskite Solar Cells through Polymer-Optimized PCBM Electron-Transport Layers. Nano Letters, 2019, 19, 3313-3320.	4.5	181
25	Photovoltaic Devices: Fullerene Polymer Complex Inducing Dipole Electric Field for Stable Perovskite Solar Cells (Adv. Funct. Mater. 12/2019). Advanced Functional Materials, 2019, 29, 1970078.	7.8	2
26	Fullerene Polymer Complex Inducing Dipole Electric Field for Stable Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1804419.	7.8	42
27	Efficient Production of Phosphorene Nanosheets via Shear Stress Mediated Exfoliation for Lowâ€Temperature Perovskite Solar Cells. Small Methods, 2019, 3, 1800521.	4.6	58
28	Mono-crystalline Perovskite Photovoltaics toward Ultrahigh Efficiency?. Joule, 2019, 3, 311-316.	11.7	43
29	Quasi-Two-Dimensional Halide Perovskite Single Crystal Photodetector. ACS Nano, 2018, 12, 4919-4929.	7.3	252
30	Highlyâ€Stable Organoâ€Lead Halide Perovskites Synthesized Through Green Selfâ€Assembly Process. Solar Rrl, 2018, 2, 1800052.	3.1	56
31	All electrospray printed perovskite solar cells. Nano Energy, 2018, 53, 440-448.	8.2	46
32	High efficiency planar-type perovskite solar cells with negligible hysteresis using EDTA-complexed SnO2. Nature Communications, 2018, 9, 3239.	5.8	1,017
33	Cost-effective sustainable-engineering of CH3NH3PbI3 perovskite solar cells through slicing and restacking of 2D layers. Nano Energy, 2017, 36, 295-302.	8.2	30
34	Fabrication of Leadâ€Free (CH₃NH₃)₃Bi₂I₉ Perovskite Photovoltaics in Ethanol Solvent. ChemSusChem, 2017, 10, 3994-3998.	3.6	36
35	The Controlling Mechanism for Potential Loss in CH₃NH₃PbBr₃ Hybrid Solar Cells. ACS Energy Letters, 2016, 1, 424-430.	8.8	77
36	Improved Phase Stability of Formamidinium Lead Triiodide Perovskite by Strain Relaxation. ACS Energy Letters, 2016, 1, 1014-1020.	8.8	367

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37	Crystallization of HC(NH₂)₂PbI₃ Black Polymorph by Solvent Intercalation for Low Temperature Solution Processing of Perovskite Solar Cells. Journal of Physical Chemistry C, 2016, 120, 26710-26719.	1.5	29
38	Impact of Capacitive Effect and Ion Migration on the Hysteretic Behavior of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 4693-4700.	2.1	335
39	Room temperature fabrication of CH3NH3PbBr3 by anti-solvent assisted crystallization approach for perovskite solar cells with fast response and small Jâ€“V hysteresis. Nano Energy, 2015, 17, 269-278.	8.2	148
40	Enhanced dielectric behavior in nanocomposites of polyurethane bonded with copper phthalocyanine oligomers. Polymer Journal, 2014, 46, 285-292.	1.3	15
41	Allâ€organic nanocomposites of functionalized polyurethane with enhanced dielectric and electroactive strain behavior. Polymers for Advanced Technologies, 2014, 25, 657-664.	1.6	7
42	A polyurethane-based elastomeric nanocomposite with a high dielectric constant. Polymer Bulletin, 2014, 71, 1263-1276.	1.7	9
43	P(VDFâ€“TrFEâ€“CFE)-based percolative composites exhibiting significantly enhanced dielectric properties. Polymer Bulletin, 2013, 70, 1327-1335.	1.7	10
44	Significantly enhanced dielectric response in composite of P(VDF-TrFE) and modified multi-walled carbon-nanotubes. E-Polymers, 2012, 12, .	1.3	5
45	High-dielectric constant percolative composite of P(VDF-TrFE) and modified multi-walled carbon-nanotubes. Polymer Bulletin, 2012, 68, 2285-2297.	1.7	7