List of Publications by Year in descending order

204 papers	37,783 citations	8159 76 h-index	2736 192 g-index
212 all docs	212 docs citations	212 times ranked	28218 citing authors

#	Article	IF	Citations
1	Sequential deposition as a route to high-performance perovskite-sensitized solar cells. Nature, 2013, 499, 316-319.	13.7	8,542
2	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. Nature Chemistry, 2014, 6, 242-247.	6.6	3,982
3	Mesoscopic CH₃NH₃PbI₃/TiO₂ Heterojunction Solar Cells. Journal of the American Chemical Society, 2012, 134, 17396-17399.	6.6	1,801
4	Efficient luminescent solar cells based on tailored mixed-cation perovskites. Science Advances, 2016, 2, e1501170.	4.7	1,669
5	Organohalide lead perovskites for photovoltaic applications. Energy and Environmental Science, 2014, 7, 2448-2463.	15.6	1,220
6	Mixedâ€Organicâ€Cation Perovskite Photovoltaics for Enhanced Solarâ€Light Harvesting. Angewandte Chemie - International Edition, 2014, 53, 3151-3157.	7.2	1,117
7	Effect of Annealing Temperature on Film Morphology of Organicâ€"Inorganic Hybrid Pervoskite Solidâ€State Solar Cells. Advanced Functional Materials, 2014, 24, 3250-3258.	7.8	850
8	A molecularly engineered hole-transporting material for efficient perovskite solar cells. Nature Energy, 2016, 1, .	19.8	816
9	Direct conversion of CO2 into liquid fuels with high selectivity over a bifunctional catalyst. Nature Chemistry, 2017, 9, 1019-1024.	6.6	757
10	High-efficiency perovskiteâ€"polymer bulk heterostructure light-emitting diodes. Nature Photonics, 2018, 12, 783-789.	15.6	715
11	Impedance Spectroscopic Analysis of Lead Iodide Perovskite-Sensitized Solid-State Solar Cells. ACS Nano, 2014, 8, 362-373.	7.3	663
12	Ionic polarization-induced currentâ€"voltage hysteresis in CH3NH3PbX3 perovskite solar cells. Nature Communications, 2016, 7, 10334.	5.8	602
13	Thermal Behavior of Methylammonium Lead-Trihalide Perovskite Photovoltaic Light Harvesters. Chemistry of Materials, 2014, 26, 6160-6164.	3.2	502
14	Highly efficient perovskite solar cells with a compositionally engineered perovskite/hole transporting material interface. Energy and Environmental Science, 2017, 10, 621-627.	15.6	436
15	Nanocrystalline Rutile Electron Extraction Layer Enables Low-Temperature Solution Processed Perovskite Photovoltaics with 13.7% Efficiency. Nano Letters, 2014, 14, 2591-2596.	4.5	397
16	A review of the catalytic hydrogenation of carbon dioxide into value-added hydrocarbons. Catalysis Science and Technology, 2017, 7, 4580-4598.	2.1	385
17	High efficiency methylammonium lead triiodide perovskite solar cells: the relevance of non-stoichiometric precursors. Energy and Environmental Science, 2015, 8, 3550-3556.	15.6	384
18	Direct Production of Lower Olefins from CO₂ Conversion via Bifunctional Catalysis. ACS Catalysis, 2018, 8, 571-578.	5.5	382

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19	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 16172-16178.	6.6	321
20	Covalent Immobilization of a Molecular Catalyst on Cu₂O Photocathodes for CO₂ Reduction. Journal of the American Chemical Society, 2016, 138, 1938-1946.	6.6	272
21	High Performance Fieldâ€Effect Ammonia Sensors Based on a Structured Ultrathin Organic Semiconductor Film. Advanced Materials, 2013, 25, 3419-3425.	11.1	263
22	Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphileâ€Modified CH₃NH₃PbI₃. Advanced Materials, 2016, 28, 2910-2915.	11.1	258
23	Facile synthesized organic hole transporting material for perovskite solar cell with efficiency of 19.8%. Nano Energy, 2016, 23, 138-144.	8.2	253
24	Dimensionality engineering of hybrid halide perovskite light absorbers. Nature Communications, 2018, 9, 5028.	5.8	245
25	Dithieno[2,3â€<i>d</i>;2â€²,3â€²â€<i>d</i>â€²]benzo[1,2â€<i>b</i>;4,5â€<i>b</i>â€²]dithiophene (DTBDT) as Semiconductor for Highâ€Performance, Solutionâ€Processed Organic Fieldâ€Effect Transistors. Advanced Materials, 2009, 21, 213-216.	11.1	237
26	Less is More: Dopantâ€Free Hole Transporting Materials for Highâ€Efficiency Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702512.	10.2	236
27	From Nano- to Micrometer Scale: The Role of Antisolvent Treatment on High Performance Perovskite Solar Cells. Chemistry of Materials, 2017, 29, 3490-3498.	3.2	234
28	Leadâ€Free Hybrid Perovskite Absorbers for Viable Application: Can We Eat the Cake and Have It too?. Advanced Science, 2018, 5, 1700331.	5.6	233
29	Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on a (<i>p</i>â€FC₆H₄C₂H₄NH₃)₂[PbI₄] Capping Layer. Advanced Energy Materials, 2019, 9, 1802595.	10.2	213
30	Rationally designed indium oxide catalysts for CO ₂ hydrogenation to methanol with high activity and selectivity. Science Advances, 2020, 6, eaaz2060.	4.7	211
31	Molecular engineering of face-on oriented dopant-free hole transporting material for perovskite solar cells with 19% PCE. Journal of Materials Chemistry A, 2017, 5, 7811-7815.	5.2	209
32	A simple spiro-type hole transporting material for efficient perovskite solar cells. Energy and Environmental Science, 2015, 8, 1986-1991.	15.6	206
33	A dopant free linear acene derivative as a hole transport material for perovskite pigmented solar cells. Energy and Environmental Science, 2015, 8, 1816-1823.	15.6	202
34	Efficient Perovskite Solar Cells by Reducing Interfaceâ€Mediated Recombination: a Bulky Amine Approach. Advanced Energy Materials, 2020, 10, 2000197.	10.2	198
35	The graphene/lanthanum oxide nanocomposites as electrode materials of supercapacitors. Journal of Power Sources, 2019, 419, 99-105.	4.0	191
36	Investigation Regarding the Role of Chloride in Organicâ€"Inorganic Halide Perovskites Obtained from Chloride Containing Precursors. Nano Letters, 2014, 14, 6991-6996.	4.5	185

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37	Novel Heterogeneous Catalysts for CO₂ Hydrogenation to Liquid Fuels. ACS Central Science, 2020, 6, 1657-1670.	5.3	182
38	Selective Production of Aromatics Directly from Carbon Dioxide Hydrogenation. ACS Catalysis, 2019, 9, 3866-3876.	5.5	177
39	Dopantâ€Free Holeâ€Transporting Materials for Stable and Efficient Perovskite Solar Cells. Advanced Materials, 2017, 29, 1606555.	11.1	171
40	Highly Efficient Perovskite Solar Cells Employing an Easily Attainable Bifluorenylideneâ€Based Holeâ€Transporting Material. Angewandte Chemie - International Edition, 2016, 55, 7464-7468.	7.2	165
41	Silolothiophene-linked triphenylamines as stable hole transporting materials for high efficiency perovskite solar cells. Energy and Environmental Science, 2015, 8, 2946-2953.	15.6	163
42	Yttrium-substituted nanocrystalline TiO₂photoanodes for perovskite based heterojunction solar cells. Nanoscale, 2014, 6, 1508-1514.	2.8	162
43	Atomic scale insights into structure instability and decomposition pathway of methylammonium lead iodide perovskite. Nature Communications, 2018, 9, 4807.	5.8	161
44	Effects of Sodium on the Catalytic Performance of CoMn Catalysts for Fischerâ€"Tropsch to Olefin Reactions. ACS Catalysis, 2017, 7, 3622-3631.	5.5	157
45	Controllable Growth and Field-Effect Property of Monolayer to Multilayer Microstripes of an Organic Semiconductor. Journal of the American Chemical Society, 2010, 132, 8807-8809.	6.6	155
46	Enhanced Charge Collection with Passivation Layers in Perovskite Solar Cells. Advanced Materials, 2016, 28, 3966-3972.	11.1	152
47	Subâ€Nanometer Conformal TiO₂ Blocking Layer for High Efficiency Solidâ€State Perovskite Absorber Solar Cells. Advanced Materials, 2014, 26, 4309-4312.	11.1	148
48	Efficient and selective carbon dioxide reduction on low cost protected Cu₂O photocathodes using a molecular catalyst. Energy and Environmental Science, 2015, 8, 855-861.	15.6	142
49	Unraveling the Reasons for Efficiency Loss in Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 3925-3933.	7.8	129
50	Artemisinin-passivated mixed-cation perovskite films for durable flexible perovskite solar cells with over 21% efficiency. Journal of Materials Chemistry A, 2021, 9, 1574-1582.	5.2	126
51	Marked Passivation Effect of Naphthaleneâ€1,8â€Dicarboximides in Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, e2008405.	11.1	116
52	A Strategy to Produce High Efficiency, High Stability Perovskite Solar Cells Using Functionalized Ionic Liquidâ€Dopants. Advanced Materials, 2017, 29, 1702157.	11.1	115
53	Efficient and Stable 2D@3D/2D Perovskite Solar Cells Based on Dual Optimization of Grain Boundary and Interface. ACS Energy Letters, 2021, 6, 3614-3623.	8.8	113
54	Background suppression in fluorescence nanoscopy with stimulated emission double depletion. Nature Photonics, 2017, 11, 163-169.	15.6	109

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57	Selective Transformation of CO₂ and H₂ into Lower Olefins over In₂O₃â€ZnZrO_{<i>x</i>}/SAPOâ€34 Bifunctional Catalysts. ChemSusChem, 2019, 12, 3582-3591.	3.6	103
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61	Development of Perovskite-Type Materials for Thermoelectric Application. Materials, 2018, 11, 999.	1.3	101
62	Yttrium oxide modified Cu/ZnO/Al₂O₃catalysts via hydrotalcite-like precursors for CO₂hydrogenation to methanol. Catalysis Science and Technology, 2015, 5, 4365-4377.	2.1	99
63	SiRA: A Silicon Rhodamine-Binding Aptamer for Live-Cell Super-Resolution RNA Imaging. Journal of the American Chemical Society, 2019, 141, 7562-7571.	6.6	99
64	Benzo[1,2-b:4,5-bâ€²]bis[b]benzothiophene as solution processible organic semiconductor for field-effect transistors. Chemical Communications, 2008, , 1548.	2.2	95
65	Fine-tuning the Electronic Structure of Organic Dyes for Dye-Sensitized Solar Cells. Organic Letters, 2012, 14, 4330-4333.	2.4	95
66	N-doped MXene derived from chitosan for the highly effective electrochemical properties as supercapacitor. Advanced Composites and Hybrid Materials, 2022, 5, 356-369.	9.9	93
67	Growth of Ultrathin Organic Semiconductor Microstripes with Thickness Control in the Monolayer Precision. Angewandte Chemie - International Edition, 2013, 52, 12530-12535.	7.2	92
68	Molecularly Engineered Phthalocyanines as Holeâ€Transporting Materials in Perovskite Solar Cells Reaching Power Conversion Efficiency of 17.5%. Advanced Energy Materials, 2017, 7, 1601733.	10.2	90
69	Duallyâ€Passivated Perovskite Solar Cells with Reduced Voltage Loss and Increased Super Oxide Resistance. Angewandte Chemie - International Edition, 2021, 60, 8303-8312.	7.2	90
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73	All that glitters is not gold: Recent progress of alternative counter electrodes for perovskite solar cells. Nano Energy, 2018, 52, 211-238.	8.2	85
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75	Stable and Efficient Perovskite Solar Cells Based on Titania Nanotube Arrays. Small, 2015, 11, 5533-5539.	5.2	80
76	A Novel Oligomer as a Hole Transporting Material for Efficient Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1400980.	10.2	80
77	Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. Inorganic Chemistry, 2016, 55, 6653-6659.	1.9	80
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80	Perovskiteâ€Based Tandem Solar Cells: Get the Most Out of the Sun. Advanced Functional Materials, 2020, 30, 2001904.	7.8	78
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82	A hybrid lead iodide perovskite and lead sulfide QD heterojunction solar cell to obtain a panchromatic response. Journal of Materials Chemistry A, 2014, 2, 11586-11590.	5.2	73
83	Intramolecular Noncovalent Interactionâ€Enabled Dopantâ€Free Holeâ€Transporting Materials for Highâ€Performance Inverted Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, e202113749.	7.2	72
84	A structural study of DPP-based sensitizers for DSC applications. Chemical Communications, 2012, 48, 10724.	2.2	68
85	Palladium single atoms supported by interwoven carbon nanotube and manganese oxide nanowire networks for enhanced electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 23366-23377.	5.2	68
86	Fluoroaromatic Cationâ€Assisted Planar Junction Perovskite Solar Cells with Improved <i>V</i>_{OC} and Stability: The Role of Fluorination Position. Solar Rrl, 2020, 4, 2000107.	3.1	68
87	Recent progress in organohalide lead perovskites for photovoltaic and optoelectronic applications. Coordination Chemistry Reviews, 2018, 373, 258-294.	9.5	67
88	Photovoltaic and Amplified Spontaneous Emission Studies of Highâ€Quality Formamidinium Lead Bromide Perovskite Films. Advanced Functional Materials, 2016, 26, 2846-2854.	7.8	66
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92	A balanced cation exchange reaction toward highly uniform and pure phase FA_{1âˆ'x}MA_xPbI₃ perovskite films. Journal of Materials Chemistry A, 2016, 4, 14437-14443.	5.2	64
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94	Extending the Lifetime of Perovskite Solar Cells using a Perfluorinated Dopant. ChemSusChem, 2016, 9, 2708-2714.	3.6	62
95	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2013, 52, 8731-8735.	7.2	61
96	Extended Ï€â€Bridge in Organic Dyeâ€Sensitized Solar Cells: the Longer, the Better?. Advanced Energy Materials, 2014, 4, 1301485.	10.2	61
97	Highâ€Efficiency Perovskite Solar Cells Employing a <i>S</i>,<i>N</i>â€Heteropentaceneâ€based Dâ€"A Holeâ€Transport Material. ChemSusChem, 2016, 9, 433-438.	3.6	61
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112	Highly Efficient Perovskite Solar Cells Employing an Easily Attainable Bifluorenylideneâ€Based Holeâ€Transporting Material. Angewandte Chemie, 2016, 128, 7590-7594.	1.6	37
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114	Protein-based fluorescent nanoparticles for super-resolution STED imaging of live cells. Chemical Science, 2017, 8, 2396-2400.	3.7	36
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128	A guide to use fluorinated aromatic bulky cations for stable and high-performance 2D/3D perovskite solar cells: The more fluorination the better?. Journal of Energy Chemistry, 2022, 64, 179-189.	7.1	28
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138	Development of electron and hole selective contact materials for perovskite solar cells. Chinese Chemical Letters, 2017, 28, 1144-1152.	4.8	20
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141	Solvent-Free Synthesis of Mg-Incorporated Nanocrystalline SAPO-34 Zeolites via Natural Clay for Chloromethane-to-Olefin Conversion. ACS Sustainable Chemistry and Engineering, 2020, 8, 4185-4193.	3.2	19
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146	Electron-deficient 4-nitrophthalonitrile passivated efficient perovskite solar cells with efficiency exceeding 22%. Sustainable Energy and Fuels, 2021, 5, 2347-2353.	2.5	18
147	Tantalum-Doped TiO2 Prepared by Atomic Layer Deposition and Its Application in Perovskite Solar Cells. Nanomaterials, 2021, 11, 1504.	1.9	18
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