

# Lydia Helena Wong

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

156  
papers

7,901  
citations

50  
h-index

85  
g-index

169  
ext. papers

8,875  
ext. citations

9.4  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
156	Nanostructured Iron Vanadate Photoanodes with Enhanced Visible Absorption and Charge Separation. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 3409-3416	6.1	1
155	Emerging Chalcogenide Thin Films for Solar Energy Harvesting Devices. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	10
154	Solution-processed pure Cu <sub>2</sub> ZnSnS <sub>4</sub> /CdS thin film solar cell with 7.5% efficiency. <i>Optical Materials</i> , <b>2021</b> , 114, 110947	3.3	4
153	Emerging inorganic solar cell efficiency tables (version 2). <i>JPhys Energy</i> , <b>2021</b> , 3, 032003	4.9	15
152	Solution-Processed Semitransparent CZTS Thin-Film Solar Cells via Cation Substitution and Rapid Thermal Annealing. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100131	7.1	7
151	An Intrinsically Micro-/Nanostructured Pollen Substrate with Tunable Optical Properties for Optoelectronic Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100566	24	5
150	Dual Role of Cu-Chalcogenide as Hole-Transporting Layer and Interface Passivator for p-i-n Architecture Perovskite Solar Cell. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103807	15.6	3
149	Dual Role of Cu-Chalcogenide as Hole-Transporting Layer and Interface Passivator for p-i-n Architecture Perovskite Solar Cell (Adv. Funct. Mater. 38/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170282	15.6	
148	Controllable Solution-Phase Epitaxial Growth of Q1D Sb (S,Se) /CdS Heterojunction Solar Cell with 9.2% Efficiency. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104346	24	8
147	High Throughput Discovery of Effective Metal Doping in FeVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , <b>2020</b> , 4, 2070096	7.1	
146	Highly efficient and thermally stable Sb <sub>2</sub> Se <sub>3</sub> solar cells based on a hexagonal CdS buffer layer by environmentally friendly interface optimization. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 17194-17201	7.1	10
145	Direct Band Gap Mixed-Valence Organic-Inorganic Gold Perovskite as Visible Light Absorbers. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6318-6325	9.6	11
144	In Situ Growth of [hk1]-Oriented Sb <sub>2</sub> S <sub>3</sub> for Solution-Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002887	15.6	42
143	Improving the interfacial properties of CZTS photocathodes by Ag substitution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8862-8867	13	23
142	Comparing the Effect of Mn Substitution in Sulfide and Sulfoselenide-Based Kesterite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900521	7.1	3
141	Silver and Potassium Incorporation in Double-Layer Solution-Processed Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cell. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10402-10407	6.1	6
140	High Throughput Discovery of Effective Metal Doping in FeVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000437	7.1	2

139	Solution-Processed Pure Sulfide Cu <sub>2</sub> (Zn <sub>0.6</sub> Cd <sub>0.4</sub> )SnS <sub>4</sub> Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000293	7.1	13
138	Surface Modification of Hematite Photoanodes with CeO Cocatalyst for Improved Photoelectrochemical Water Oxidation Kinetics. <i>ChemSusChem</i> , <b>2020</b> , 13, 5489-5496	8.3	8
137	Effect of Perovskite Thickness on Electroluminescence and Solar Cell Conversion Efficiency. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8189-8194	6.4	27
136	Solution-Processed Pure Sulfide Cu <sub>2</sub> (Zn <sub>0.6</sub> Cd <sub>0.4</sub> )SnS <sub>4</sub> Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , <b>2020</b> , 4, 2070096	7.1	
135	Doping and alloying of kesterites. <i>JPhys Energy</i> , <b>2019</b> , 1, 044004	4.9	46
134	Emerging inorganic solar cell efficiency tables (Version 1). <i>JPhys Energy</i> , <b>2019</b> , 1, 032001	4.9	39
133	The synergistic effect of cation mixing in mesoporous Bi <sub>2</sub> Fe <sub>1-x</sub> VO <sub>4</sub> heterojunction photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14816-14824	13	5
132	Improving Carrier-Transport Properties of CZTS by Mg Incorporation with Spray Pyrolysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25824-25832	9.5	25
131	Suppressed Deep Traps and Bandgap Fluctuations in Cu <sub>2</sub> CdSnS <sub>4</sub> Solar Cells with 8% Efficiency. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902509	21.8	37
130	Material Design for Artificial Photosynthesis using Photoelectrodes for Hydrogen Production <b>2019</b> , 231-258		
129	Molybdenum incorporated Cu <sub>1.69</sub> ZnSnS <sub>4</sub> kesterite photovoltaic devices with bilayer microstructure and tunable optical-electronic properties. <i>Solar Energy</i> , <b>2019</b> , 194, 777-787	6.8	6
128	Effect of Cd on cation redistribution and order-disorder transition in Cu <sub>2</sub> (Zn,Cd)SnS <sub>4</sub> . <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26927-26933	13	10
127	An update on shellfish allergy. <i>Current Opinion in Allergy and Clinical Immunology</i> , <b>2019</b> , 19, 236-242	3.3	19
126	Effect of TaN intermediate layer on the back contact reaction of sputter-deposited Cu poor Cu <sub>2</sub> ZnSnS <sub>4</sub> and Mo. <i>Applied Surface Science</i> , <b>2019</b> , 471, 277-288	6.7	13
125	Understanding the Roles of NiO in Enhancing the Photoelectrochemical Performance of BiVO Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , <b>2019</b> , 12, 2022-2028	8.3	21
124	Synergistic Effect of Porosity and Gradient Doping in Efficient Solar Water Oxidation of Catalyst-Free Gradient Mo:BiVO. <i>ACS Omega</i> , <b>2018</b> , 3, 2724-2734	3.9	13
123	Spray pyrolysis synthesized Cu(In,Al)(S,Se) <sub>2</sub> thin films solar cells. <i>Materials Research Express</i> , <b>2018</b> , 5, 035506	1.7	3
122	A Precursor Stacking Strategy to Boost Open-Circuit Voltage of Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin-Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 856-863	3.7	12

121	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , <b>2018</b> , 2, 537-548	27.8	74
120	Understanding the role of nanostructuring in photoelectrode performance for light-driven water splitting. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 819, 447-458	4.1	23
119	Additive Selection Strategy for High Performance Perovskite Photovoltaics. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13884-13893	3.8	46
118	Improving the charge separation and collection at the buffer/absorber interface by double-layered Mn-substituted CZTS. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 185, 351-358	6.4	19
117	Reducing the interfacial defect density of CZTSSe solar cells by Mn substitution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1540-1550	13	44
116	Elucidation of the opto-electronic and photoelectrochemical properties of FeVO <sub>4</sub> photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 548-555	13	38
115	Recent Progress in Solution-Processed Copper-Chalcogenide Thin-Film Solar Cells. <i>Energy Technology</i> , <b>2018</b> , 6, 46-59	3.5	30
114	Hot dipping post treatment for improved efficiency in micro patterned semi-transparent perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23787-23796	13	17
113	Enhanced Carrier Transport and Bandgap Reduction in Sulfur-Modified BiVO <sub>4</sub> Photoanodes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8630-8638	9.6	25
112	Synergistic Effects of Double Cation Substitution in Solution-Processed CZTS Solar Cells with over 10% Efficiency. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802540	21.8	81
111	Enhanced Heterojunction Interface Quality To Achieve 9.3% Efficient Cd-Free Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells Using Atomic Layer Deposition ZnSnO Buffer Layer. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7860-7871	9.6	39
110	Recent progress in iron oxide based photoanodes for solar water splitting. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 473002	3	31
109	Doping and Switchable Photovoltaic Effect in Lead-Free Perovskites Enabled by Metal Cation Transmutation. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802080	24	21
108	Towards high efficiency thin film solar cells. <i>Progress in Materials Science</i> , <b>2017</b> , 87, 246-291	42.2	67
107	Over 20% Efficient CIGS/Perovskite Tandem Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 807-812	20.1	109
106	Investigation of selenization and various CBD CdS deposition conditions to fabricate high performing spray pyrolysis synthesized Cu(In,Ga)(S,Se) <sub>2</sub> solar cells. <i>Journal of Renewable and Sustainable Energy</i> , <b>2017</b> , 9, 013504	2.5	2
105	Impact of molybdenum out diffusion and interface quality on the performance of sputter grown CZTS based solar cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 1350	4.9	43
104	Revealing the Role of Potassium Treatment in CZTSSe Thin Film Solar Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4273-4281	9.6	31

103	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Water-Splitting Devices. <i>ChemSusChem</i> , <b>2017</b> , 10, 2449-2456	8.3	62
102	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9192-9199	9.6	16
101	Modelling and loss analysis of meso-structured perovskite solar cells. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 083105	2.5	19
100	Computational Study of Halide Perovskite-Derived A <sub>2</sub> BX <sub>6</sub> Inorganic Compounds: Chemical Trends in Electronic Structure and Structural Stability. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7740-7749	9.6	128
99	Revealing the Influence of Doping and Surface Treatment on the Surface Carrier Dynamics in Hematite Nanorod Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 41265-41272	9.5	29
98	Photovoltaic effect in earth abundant solution processed Cu <sub>2</sub> MnSnS <sub>4</sub> and Cu <sub>2</sub> MnSn(S,Se) <sub>4</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 867-873	6.4	37
97	Immobilization of dye pollutants on iron hydroxide coated substrates: kinetics, efficiency and the adsorption mechanism. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13280-13288	13	42
96	Enhancement of Open-Circuit Voltage of Solution-Processed Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells with 7.2% Efficiency by Incorporation of Silver. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1256-1261	20.1	105
95	Catalytic effect of Bi 5+ in enhanced solar water splitting of tetragonal BiV 0.8 Mo 0.2 O 4. <i>Applied Catalysis A: General</i> , <b>2016</b> , 526, 21-27	5.1	10
94	Understanding charge transport in non-doped pristine and surface passivated hematite (FeO) nanorods under front and backside illumination in the context of light induced water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 30370-30378	3.6	25
93	Preparation of high efficiency Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells from novel non-toxic hybrid ink. <i>Journal of Power Sources</i> , <b>2016</b> , 335, 84-90	8.9	9
92	Electrospun Mo-BiVO <sub>4</sub> for Efficient Photoelectrochemical Water Oxidation: Direct Evidence of Improved Hole Diffusion Length and Charge separation. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 173-182	6.7	66
91	A 4.92% efficiency Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cell from nanoparticle ink and molecular solution. <i>RSC Advances</i> , <b>2016</b> , 6, 54049-54053	3.7	27
90	8.6% Efficiency CZTSSe solar cell with atomic layer deposited Zn-Sn-O buffer layer. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 101-107	6.4	44
89	Two-stage co-evaporated CuSbS <sub>2</sub> thin films for solar cells. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 680, 182-190	5.7	59
88	Influence of void-free perovskite capping layer on the charge recombination process in high performance CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 4181-93	7.7	22
87	Nitrogen doped anatase-rutile heterostructured nanotubes for enhanced photocatalytic hydrogen production: Promising structure for sustainable fuel production. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5865-5877	6.7	61
86	Crystalline Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> TiO <sub>5</sub> heterojunction nanorods with efficient charge separation and hole injection as photoanode for solar water oxidation. <i>Nano Energy</i> , <b>2016</b> , 22, 310-318	17.1	80

85	Chemical Bath Deposition of p-Type Transparent, Highly Conducting (CuS) <sub>x</sub> :(ZnS) <sub>1-x</sub> Nanocomposite Thin Films and Fabrication of Si Heterojunction Solar Cells. <i>Nano Letters</i> , <b>2016</b> , 16, 1925-32	11.5	77
84	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 6352-60	7.7	76
83	Shellfish and House Dust Mite Allergies: Is the Link Tropomyosin?. <i>Allergy, Asthma and Immunology Research</i> , <b>2016</b> , 8, 101-6	5.3	68
82	Improved Charge Separation in WO <sub>3</sub> /CuWO <sub>4</sub> Composite Photoanodes for Photoelectrochemical Water Oxidation. <i>Materials</i> , <b>2016</b> , 9,	3.5	26
81	Highly Active MnO Catalysts Integrated onto Fe <sub>2</sub> O <sub>3</sub> Nanorods for Efficient Water Splitting. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600176	4.6	18
80	Multi Band Gap Cu(In,Ga)(S,Se) <sub>2</sub> Thin Films Deposited by Spray Pyrolysis for High Performance Solar Cell Devices. <i>Materials Science Forum</i> , <b>2016</b> , 864, 143-148	0.4	2
79	Cation substitution of CZTS solar cell with > 10% efficiency <b>2016</b> ,		5
78	An experimentally supported model for the origin of charge transport barrier in Zn(O,S)/CIGSSe solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 043505	3.4	5
77	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymer/Bullerene Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 51-65	15.6	49
76	Wire-shaped perovskite solar cell based on TiO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , <b>2016</b> , 27, 20LT01	3.4	15
75	Synthesis of SnS <sub>2</sub> single crystals and its Li-storage performance with LiMn <sub>2</sub> O <sub>4</sub> cathode. <i>Applied Materials Today</i> , <b>2016</b> , 5, 68-72	6.6	17
74	Revealing the Role of TiO <sub>2</sub> Surface Treatment of Hematite Nanorods Photoanodes for Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16960-6	9.5	72
73	Effect of Zn(O,S) buffer layer thickness on charge carrier relaxation dynamics of CuInSe <sub>2</sub> solar cell. <i>Solar Energy</i> , <b>2015</b> , 115, 396-404	6.8	16
72	A simple spiro-type hole transporting material for efficient perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1986-1991	35.4	184
71	Silicon decorated with amorphous cobalt molybdenum sulfide catalyst as an efficient photocathode for solar hydrogen generation. <i>ACS Nano</i> , <b>2015</b> , 9, 3829-36	16.7	84
70	Core-shell hematite nanorods: a simple method to improve the charge transfer in the photoanode for photoelectrochemical water splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6852-9	9.5	53
69	Perovskite-Hematite Tandem Cells for Efficient Overall Solar Driven Water Splitting. <i>Nano Letters</i> , <b>2015</b> , 15, 3833-9	11.5	211
68	Sputter grown sub-micrometer thick Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film for photovoltaic device application. <i>Materials Letters</i> , <b>2015</b> , 160, 45-50	3.3	38

67	Promotional effects of cetyltrimethylammonium bromide surface modification on a hematite photoanode for photoelectrochemical water splitting. <i>RSC Advances</i> , <b>2015</b> , 5, 100142-100146	3.7	5
66	TiO <sub>2</sub> nanotube arrays based flexible perovskite solar cells with transparent carbon nanotube electrode. <i>Nano Energy</i> , <b>2015</b> , 11, 728-735	17.1	249
65	ZnS buffer layer for Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> monograin layer solar cell. <i>Solar Energy</i> , <b>2015</b> , 111, 344-349	6.8	66
64	Targeting Ideal Dual-Absorber Tandem Water Splitting Using Perovskite Photovoltaics and CuIn <sub>x</sub> Ga <sub>1-x</sub> Se <sub>2</sub> Photocathodes. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501520	21.8	89
63	Antimony Doping in Solution-processed Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells. <i>ChemSusChem</i> , <b>2015</b> , 8, 3504-11	8.3	25
62	Cation Substitution of Solution-Processed Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Film Solar Cell with over 9% Efficiency. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500682	21.8	234
61	Improvement of VOC in Cu <sub>2</sub> ZnSnS <sub>4</sub> monograin layer solar cells with tin oxide inter-layer <b>2015</b> ,		2
60	Synthesis of Cu(In,Ga)(S,Se) <sub>2</sub> thin films using an aqueous spray-pyrolysis approach, and their solar cell efficiency of 10.5%. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4147-4154	13	56
59	Applications of atomic layer deposition in solar cells. <i>Nanotechnology</i> , <b>2015</b> , 26, 064001	3.4	73
58	Engineering a Cu <sub>2</sub> O/NiO/Cu <sub>2</sub> MoS <sub>4</sub> hybrid photocathode for H <sub>2</sub> generation in water. <i>Nanoscale</i> , <b>2014</b> , 6, 6506-10	7.7	57
57	Electrodeposition of single phase CuInSe <sub>2</sub> for solar energy harvesting: Role of different acidic additives. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 591, 127-131	5.7	13
56	Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> kesterite solar cell with 5.1% efficiency using spray pyrolysis of aqueous precursor solution followed by selenization. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 124, 55-60	6.4	85
55	Understanding the synthetic pathway of a single-phase quaternary semiconductor using surface-enhanced Raman scattering: a case of wurtzite Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6684-92	16.4	112
54	Improving the efficiency of hematite nanorods for photoelectrochemical water splitting by doping with manganese. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 5852-9	9.5	153
53	Iron based photoanodes for solar fuel production. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 11834-426	3.2	109
52	MODULATING CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> PEROVSKITE CRYSTALLIZATION BEHAVIOR THROUGH PRECURSOR CONCENTRATION. <i>Nano</i> , <b>2014</b> , 09, 1440003	1.1	8
51	The role of tin oxide surface defects in determining nanonet FET response to humidity and photoexcitation. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 940-945	7.1	21
50	Environmentally friendly solution route to kesterite Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> thin films for solar cell applications. <i>RSC Advances</i> , <b>2014</b> , 4, 26888-26894	3.7	22

49	Photoactive nanocrystals by low-temperature welding of copper sulfide nanoparticles and indium sulfide nanosheets. <i>ChemSusChem</i> , <b>2014</b> , 7, 3290-4	8.3	4
48	Spray pyrolysis of CuIn(S,Se) <sub>2</sub> solar cells with 5.9% efficiency: a method to prevent Mo oxidation in ambient atmosphere. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6638-43	9.5	35
47	Facile water-based spray pyrolysis of earth-abundant Cu <sub>2</sub> FeSnS <sub>4</sub> thin films as an efficient counter electrode in dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 17661-7	9.5	90
46	Hole-transporting small molecules based on thiophene cores for high efficiency perovskite solar cells. <i>ChemSusChem</i> , <b>2014</b> , 7, 3420-5	8.3	122
45	Laminated carbon nanotube networks for metal electrode-free efficient perovskite solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 6797-804	16.7	371
44	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) <sub>2</sub> solar cell. <i>RSC Advances</i> , <b>2014</b> , 4, 58372-58376	3.7	3
43	Hydrothermal grown nanoporous iron based titanate, Fe <sub>3</sub> TiO <sub>8</sub> for light driven water splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22490-5	9.5	59
42	A novel hollowed CoO-in-CoSnO <sub>4</sub> nanostructure with enhanced lithium storage capabilities. <i>Nanoscale</i> , <b>2014</b> , 6, 13824-30	7.7	43
41	Assembling graphitic-carbon-nitride with cobalt-oxide-phosphate to construct an efficient hybrid photocatalyst for water splitting application. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 1694	5.5	51
40	In situ photo-assisted deposition of MoS <sub>2</sub> electrocatalyst onto zinc cadmium sulphide nanoparticle surfaces to construct an efficient photocatalyst for hydrogen generation. <i>Nanoscale</i> , <b>2013</b> , 5, 1479-82	7.7	125
39	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. <i>Chemical Science</i> , <b>2013</b> , 4, 164-169	9.4	140
38	Nanoparticle-induced grain growth of carbon-free solution-processed CuIn(S,Se) <sub>2</sub> solar cell with 6% efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1533-7	9.5	43
37	Chemical welding of binary nanoparticles: room temperature sintering of CuSe and In <sub>2</sub> S <sub>3</sub> nanoparticles for solution-processed CuInS(x)Se(1-x) solar cells. <i>Chemical Communications</i> , <b>2013</b> , 49, 5351-3	5.8	14
36	Observation of orientation-dependent photovoltaic behaviors in aligned organic nanowires. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 053304	3.4	8
35	The Effect of Cu CMP Pad Clean on Defectivity and Reliability. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2013</b> , 26, 344-349	2.6	4
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32	Optical and Electrical Properties of Wurtzite Copper Indium Sulfide Nanoflakes. <i>Materials Express</i> , <b>2012</b> , 2, 344-350	1.3	7



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