

Lydia Helena Wong

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156
papers

7,901
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169
ext. papers

8,875
ext. citations

9.4
avg, IF

6.11
L-index

#	Paper	IF	Citations
156	Recent advances in hybrid photocatalysts for solar fuel production. <i>Energy and Environmental Science</i> , 2012 , 5, 5902	35.4	502
155	Laminated carbon nanotube networks for metal electrode-free efficient perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 6797-804	16.7	371
154	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. <i>Energy and Environmental Science</i> , 2012 , 5, 8912	35.4	274
153	A cuprous oxide-reduced graphene oxide (Cu ₂ O-rGO) composite photocatalyst for hydrogen generation: employing rGO as an electron acceptor to enhance the photocatalytic activity and stability of Cu ₂ O. <i>Nanoscale</i> , 2012 , 4, 3875-8	7.7	259
152	TiO ₂ nanotube arrays based flexible perovskite solar cells with transparent carbon nanotube electrode. <i>Nano Energy</i> , 2015 , 11, 728-735	17.1	249
151	Cation Substitution of Solution-Processed Cu ₂ ZnSnS ₄ Thin Film Solar Cell with over 9% Efficiency. <i>Advanced Energy Materials</i> , 2015 , 5, 1500682	21.8	234
150	Perovskite-Hematite Tandem Cells for Efficient Overall Solar Driven Water Splitting. <i>Nano Letters</i> , 2015 , 15, 3833-9	11.5	211
149	Hydrothermal Synthesis of High Electron Mobility Zn-doped SnO ₂ Nanoflowers as Photoanode Material for Efficient Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 3938-3945	9.6	190
148	A simple spiro-type hole transporting material for efficient perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1986-1991	35.4	184
147	Improving the efficiency of hematite nanorods for photoelectrochemical water splitting by doping with manganese. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5852-9	9.5	153
146	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. <i>Chemical Science</i> , 2013 , 4, 164-169	9.4	140
145	A new insight into controlling poly(3-hexylthiophene) nanofiber growth through a mixed-solvent approach for organic photovoltaics applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 377-386		133
144	Co ₃ O ₄ -Decorated Hematite Nanorods As an Effective Photoanode for Solar Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13884-13889	3.8	130
143	Computational Study of Halide Perovskite-Derived A ₂ BX ₆ Inorganic Compounds: Chemical Trends in Electronic Structure and Structural Stability. <i>Chemistry of Materials</i> , 2017 , 29, 7740-7749	9.6	128
142	In situ photo-assisted deposition of MoS ₂ electrocatalyst onto zinc cadmium sulphide nanoparticle surfaces to construct an efficient photocatalyst for hydrogen generation. <i>Nanoscale</i> , 2013 , 5, 1479-82	7.7	125
141	Solvent additives and their effects on blend morphologies of bulk heterojunctions. <i>Journal of Materials Chemistry</i> , 2011 , 21, 242-250		124
140	Hole-transporting small molecules based on thiophene cores for high efficiency perovskite solar cells. <i>ChemSusChem</i> , 2014 , 7, 3420-5	8.3	122

139	Understanding the synthetic pathway of a single-phase quarternary semiconductor using surface-enhanced Raman scattering: a case of wurtzite Cu ₂ ZnSnS ₄ nanoparticles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6684-92	16.4	112
138	Over 20% Efficient CIGS/Perovskite Tandem Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 807-812	20.1	109
137	Iron based photoanodes for solar fuel production. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11834-426	3.6	109
136	Enhancement of Open-Circuit Voltage of Solution-Processed Cu ₂ ZnSnS ₄ Solar Cells with 7.2% Efficiency by Incorporation of Silver. <i>ACS Energy Letters</i> , 2016 , 1, 1256-1261	20.1	105
135	Enhancing the photocatalytic efficiency of TiO ₂ nanopowders for H ₂ production by using non-noble transition metal co-catalysts. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11596-9	3.6	104
134	Novel assembly of an MoS ₂ electrocatalyst onto a silicon nanowire array electrode to construct a photocathode composed of elements abundant on the earth for hydrogen generation. <i>Chemistry - A European Journal</i> , 2012 , 18, 13994-9	4.8	97
133	The Role of Poly(3-hexylthiophene) Nanofibers in an All-Polymer Blend with a Polyfluorene Copolymer for Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9459-9468	3.8	93
132	Facile water-based spray pyrolysis of earth-abundant Cu ₂ FeSnS ₄ thin films as an efficient counter electrode in dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17661-7	9.5	90
131	Targeting Ideal Dual-Absorber Tandem Water Splitting Using Perovskite Photovoltaics and CuIn _x Ga _{1-x} Se ₂ Photocathodes. <i>Advanced Energy Materials</i> , 2015 , 5, 1501520	21.8	89
130	Cu ₂ ZnSn(S,Se) ₄ 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> , 2014 , 124, 55-60	6.4	85
129	Silicon decorated with amorphous cobalt molybdenum sulfide catalyst as an efficient photocathode for solar hydrogen generation. <i>ACS Nano</i> , 2015 , 9, 3829-36	16.7	84
128	Synergistic Effects of Double Cation Substitution in Solution-Processed CZTS Solar Cells with over 10% Efficiency. <i>Advanced Energy Materials</i> , 2018 , 8, 1802540	21.8	81
127	Crystalline Fe ₂ O ₃ /Fe ₂ TiO ₅ heterojunction nanorods with efficient charge separation and hole injection as photoanode for solar water oxidation. <i>Nano Energy</i> , 2016 , 22, 310-318	17.1	80
126	Chemical Bath Deposition of p-Type Transparent, Highly Conducting (CuS) _x :(ZnS) _{1-x} Nanocomposite Thin Films and Fabrication of Si Heterojunction Solar Cells. <i>Nano Letters</i> , 2016 , 16, 1925-325	15.5	77
125	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6352-60	7.7	76
124	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , 2018 , 2, 537-548	27.8	74
123	Surface treatment of hematite photoanodes with zinc acetate for water oxidation. <i>Nanoscale</i> , 2012 , 4, 4430-3	7.7	74
122	Applications of atomic layer deposition in solar cells. <i>Nanotechnology</i> , 2015 , 26, 064001	3.4	73

121	Revealing the Role of TiO ₂ Surface Treatment of Hematite Nanorods Photoanodes for Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16960-6	9.5	72
120	Shellfish and House Dust Mite Allergies: Is the Link Tropomyosin?. <i>Allergy, Asthma and Immunology Research</i> , 2016 , 8, 101-6	5.3	68
119	Towards high efficiency thin film solar cells. <i>Progress in Materials Science</i> , 2017 , 87, 246-291	42.2	67
118	ZnS buffer layer for Cu ₂ ZnSn(SSe) ₄ monograin layer solar cell. <i>Solar Energy</i> , 2015 , 111, 344-349	6.8	66
117	Electrospun Mo-BiVO ₄ for Efficient Photoelectrochemical Water Oxidation: Direct Evidence of Improved Hole Diffusion Length and Charge separation. <i>Electrochimica Acta</i> , 2016 , 211, 173-182	6.7	66
116	Ultrafine Gold Nanowire Networks as Plasmonic Antennae in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6453-6458	3.8	65
115	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Water-Splitting Devices. <i>ChemSusChem</i> , 2017 , 10, 2449-2456	8.3	62
114	Nitrogen doped anatase-rutile heterostructured nanotubes for enhanced photocatalytic hydrogen production: Promising structure for sustainable fuel production. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5865-5877	6.7	61
113	Two-stage co-evaporated CuSbS ₂ thin films for solar cells. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 182-190	5.7	59
112	Hydrothermal grown nanoporous iron based titanate, Fe ₂ O ₃ /TiO ₂ for light driven water splitting. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22490-5	9.5	59
111	Engineering a Cu ₂ O/NiO/Cu ₂ MoS ₄ hybrid photocathode for H ₂ generation in water. <i>Nanoscale</i> , 2014 , 6, 6506-10	7.7	57
110	Synthesis of Cu(In,Ga)(S,Se) ₂ thin films using an aqueous spray-pyrolysis approach, and their solar cell efficiency of 10.5%. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4147-4154	13	56
109	Core-shell hematite nanorods: a simple method to improve the charge transfer in the photoanode for photoelectrochemical water splitting. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6852-9	9.5	53
108	Assembling graphitic-carbon-nitride with cobalt-oxide-phosphate to construct an efficient hybrid photocatalyst for water splitting application. <i>Catalysis Science and Technology</i> , 2013 , 3, 1694	5.5	51
107	Zinc Tin Oxide (ZTO) electron transporting buffer layer in inverted organic solar cell. <i>Organic Electronics</i> , 2012 , 13, 870-874	3.5	50
106	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymer/Bullerene Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 51-65	15.6	49
105	Doping and alloying of kesterites. <i>JPhys Energy</i> , 2019 , 1, 044004	4.9	46
104	Additive Selection Strategy for High Performance Perovskite Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13884-13893	3.8	46

103	8.6% Efficiency CZTSSe solar cell with atomic layer deposited Zn-Sn-O buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 101-107	6.4	44
102	Reducing the interfacial defect density of CZTSSe solar cells by Mn substitution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1540-1550	13	44
101	Impact of molybdenum out diffusion and interface quality on the performance of sputter grown CZTS based solar cells. <i>Scientific Reports</i> , 2017 , 7, 1350	4.9	43
100	A novel hollowed CoO-in-CoSnO ₂ nanostructure with enhanced lithium storage capabilities. <i>Nanoscale</i> , 2014 , 6, 13824-30	7.7	43
99	Nanoparticle-induced grain growth of carbon-free solution-processed CuIn(S,Se) ₂ solar cell with 6% efficiency. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1533-7	9.5	43
98	In Situ Growth of [hk1]-Oriented Sb ₂ S ₃ for Solution-Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. <i>Advanced Functional Materials</i> , 2020 , 30, 2002887	15.6	42
97	Immobilization of dye pollutants on iron hydroxide coated substrates: kinetics, efficiency and the adsorption mechanism. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13280-13288	13	42
96	Aligned Tin Oxide Nanonets for High-Performance Transistors. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1331-1336	3.8	41
95	Emerging inorganic solar cell efficiency tables (Version 1). <i>JPhys Energy</i> , 2019 , 1, 032001	4.9	39
94	Enhanced Heterojunction Interface Quality To Achieve 9.3% Efficient Cd-Free Cu ₂ ZnSnS ₄ Solar Cells Using Atomic Layer Deposition ZnSnO Buffer Layer. <i>Chemistry of Materials</i> , 2018 , 30, 7860-7871	9.6	39
93	Sputter grown sub-micrometer thick Cu ₂ ZnSnS ₄ thin film for photovoltaic device application. <i>Materials Letters</i> , 2015 , 160, 45-50	3.3	38
92	Understanding the effect of surface chemistry on charge generation and transport in poly (3-hexylthiophene)/CdSe hybrid solar cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 287-92	9.5	38
91	Elucidation of the opto-electronic and photoelectrochemical properties of FeVO ₄ photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 548-555	13	38
90	Photovoltaic effect in earth abundant solution processed Cu ₂ MnSnS ₄ and Cu ₂ MnSn(S,Se) ₄ thin films. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 867-873	6.4	37
89	Suppressed Deep Traps and Bandgap Fluctuations in Cu ₂ CdSnS ₄ Solar Cells with 8% Efficiency. <i>Advanced Energy Materials</i> , 2019 , 9, 1902509	21.8	37
88	Spray pyrolysis of CuIn(S,Se) ₂ solar cells with 5.9% efficiency: a method to prevent Mo oxidation in ambient atmosphere. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6638-43	9.5	35
87	Determination of Raman Phonon Strain Shift Coefficient of Strained Silicon and Strained SiGe. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7922-7924	1.4	33
86	Revealing the Role of Potassium Treatment in CZTSSe Thin Film Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 4273-4281	9.6	31

85	Functionally graded tricalcium phosphate/fluoroapatite composites. <i>Materials Science and Engineering C</i> , 2002 , 20, 111-115	8.3	31
84	Recent progress in iron oxide based photoanodes for solar water splitting. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 473002	3	31
83	Recent Progress in Solution-Processed Copper-Chalcogenide Thin-Film Solar Cells. <i>Energy Technology</i> , 2018 , 6, 46-59	3.5	30
82	Revealing the Influence of Doping and Surface Treatment on the Surface Carrier Dynamics in Hematite Nanorod Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41265-41272	9.5	29
81	A 4.92% efficiency Cu ₂ ZnSnS ₄ solar cell from nanoparticle ink and molecular solution. <i>RSC Advances</i> , 2016 , 6, 54049-54053	3.7	27
80	Effect of Perovskite Thickness on Electroluminescence and Solar Cell Conversion Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8189-8194	6.4	27
79	Improved Charge Separation in WO ₃ /CuWO ₄ Composite Photoanodes for Photoelectrochemical Water Oxidation. <i>Materials</i> , 2016 , 9,	3.5	26
78	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> , 2016 , 18, 30370-30378	3.6	25
77	Improving Carrier-Transport Properties of CZTS by Mg Incorporation with Spray Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25824-25832	9.5	25
76	Antimony Doping in Solution-processed Cu ₂ ZnSn(S,Se) ₄ Solar Cells. <i>ChemSusChem</i> , 2015 , 8, 3504-11	8.3	25
75	Enhanced Carrier Transport and Bandgap Reduction in Sulfur-Modified BiVO ₄ Photoanodes. <i>Chemistry of Materials</i> , 2018 , 30, 8630-8638	9.6	25
74	Improving the interfacial properties of CZTS photocathodes by Ag substitution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8862-8867	13	23
73	Understanding the role of nanostructuring in photoelectrode performance for light-driven water splitting. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 447-458	4.1	23
72	Influence of void-free perovskite capping layer on the charge recombination process in high performance CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 4181-93	7.7	22
71	Environmentally friendly solution route to kesterite Cu ₂ ZnSn(S,Se) ₄ thin films for solar cell applications. <i>RSC Advances</i> , 2014 , 4, 26888-26894	3.7	22
70	The role of tin oxide surface defects in determining nanonet FET response to humidity and photoexcitation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 940-945	7.1	21
69	Understanding the Roles of NiO in Enhancing the Photoelectrochemical Performance of BiVO ₄ Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 2022-2028	8.3	21
68	Doping and Switchable Photovoltaic Effect in Lead-Free Perovskites Enabled by Metal Cation Transmutation. <i>Advanced Materials</i> , 2018 , 30, e1802080	24	21

67	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> , 2018 , 185, 351-358	6.4	19
66	Modelling and loss analysis of meso-structured perovskite solar cells. <i>Journal of Applied Physics</i> , 2017 , 122, 083105	2.5	19
65	An update on shellfish allergy. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2019 , 19, 236-242	3.3	19
64	Highly Active MnO Catalysts Integrated onto Fe ₂ O ₃ Nanorods for Efficient Water Splitting. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600176	4.6	18
63	Synthesis of SnS ₂ single crystals and its Li-storage performance with LiMn ₂ O ₄ cathode. <i>Applied Materials Today</i> , 2016 , 5, 68-72	6.6	17
62	Hot dipping post treatment for improved efficiency in micro patterned semi-transparent perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23787-23796	13	17
61	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 9192-9199	9.6	16
60	Effect of Zn(O,S) buffer layer thickness on charge carrier relaxation dynamics of CuInSe ₂ solar cell. <i>Solar Energy</i> , 2015 , 115, 396-404	6.8	16
59	Strain relaxation mechanism in a reverse compositionally graded SiGe heterostructure. <i>Applied Physics Letters</i> , 2007 , 90, 061913	3.4	15
58	Emerging inorganic solar cell efficiency tables (version 2). <i>JPhys Energy</i> , 2021 , 3, 032003	4.9	15
57	Wire-shaped perovskite solar cell based on TiO ₂ nanotubes. <i>Nanotechnology</i> , 2016 , 27, 20LT01	3.4	15
56	Chemical welding of binary nanoparticles: room temperature sintering of CuSe and In ₂ S ₃ nanoparticles for solution-processed CuInS(x)Se(1-x) solar cells. <i>Chemical Communications</i> , 2013 , 49, 5351-3	5.8	14
55	Investigation of photophysical, morphological and photovoltaic behavior of poly(p-phenylene vinylene) based polymer/oligomer blends. <i>Thin Solid Films</i> , 2010 , 518, 5292-5299	2.2	14
54	Synergistic Effect of Porosity and Gradient Doping in Efficient Solar Water Oxidation of Catalyst-Free Gradient Mo:BiVO ₄ . <i>ACS Omega</i> , 2018 , 3, 2724-2734	3.9	13
53	Electrodeposition of single phase CuInSe ₂ for solar energy harvesting: Role of different acidic additives. <i>Journal of Alloys and Compounds</i> , 2014 , 591, 127-131	5.7	13
52	Solution-Processed Pure Sulfide Cu ₂ (Zn _{0.6} Cd _{0.4})SnS ₄ Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , 2020 , 4, 2000293	7.1	13
51	Effect of TaN intermediate layer on the back contact reaction of sputter-deposited Cu poor Cu ₂ ZnSnS ₄ and Mo. <i>Applied Surface Science</i> , 2019 , 471, 277-288	6.7	13
50	A Precursor Stacking Strategy to Boost Open-Circuit Voltage of Cu ₂ ZnSnS ₄ Thin-Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 856-863	3.7	12

49	Characterization of titanium silicide by Raman spectroscopy for submicron IC processing. <i>Microelectronic Engineering</i> , 1998 , 43-44, 611-617	2.5	12
48	A Novel Thin Buffer Concept for Epitaxial Growth of Relaxed SiGe Layers with Low Threading Dislocation Density. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, G60		12
47	Direct Band Gap Mixed-Valence Organic-Inorganic Gold Perovskite as Visible Light Absorbers. <i>Chemistry of Materials</i> , 2020 , 32, 6318-6325	9.6	11
46	Monitoring of TiSi ₂ formation on narrow polycrystalline silicon lines using Raman spectroscopy. <i>IEEE Electron Device Letters</i> , 1998 , 19, 171-173	4.4	11
45	Highly efficient and thermally stable Sb ₂ Se ₃ solar cells based on a hexagonal CdS buffer layer by environmentally friendly interface optimization. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17194-17201	7.1	10
44	Catalytic effect of Bi 5+ in enhanced solar water splitting of tetragonal Bi _{0.8} Mo _{0.2} O ₄ . <i>Applied Catalysis A: General</i> , 2016 , 526, 21-27	5.1	10
43	Thermal Stability of a Reverse-Graded SiGe Buffer Layer for Growth of Relaxed SiGe Epitaxy. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G114		10
42	Emerging Chalcogenide Thin Films for Solar Energy Harvesting Devices. <i>Chemical Reviews</i> , 2021 ,	68.1	10
41	Effect of Cd on cation redistribution and order-disorder transition in Cu ₂ (Zn,Cd)SnS ₄ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26927-26933	13	10
40	Preparation of high efficiency Cu ₂ ZnSn(S,Se) ₄ solar cells from novel non-toxic hybrid ink. <i>Journal of Power Sources</i> , 2016 , 335, 84-90	8.9	9
39	Physical and Electrical Properties of Single Zn ₂ SnO ₄ Nanowires. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, K5		9
38	MODULATING CH ₃ NH ₃ PbI ₃ PEROVSKITE CRYSTALLIZATION BEHAVIOR THROUGH PRECURSOR CONCENTRATION. <i>Nano</i> , 2014 , 09, 1440003	1.1	8
37	Observation of orientation-dependent photovoltaic behaviors in aligned organic nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 053304	3.4	8
36	Low-dislocation-density strain relaxation of SiGe on a SiGeBiGeC buffer layer. <i>Applied Physics Letters</i> , 2006 , 88, 041915	3.4	8
35	Surface Modification of Hematite Photoanodes with CeO Cocatalyst for Improved Photoelectrochemical Water Oxidation Kinetics. <i>ChemSusChem</i> , 2020 , 13, 5489-5496	8.3	8
34	Controllable Solution-Phase Epitaxial Growth of Q1D Sb (S,Se) /CdS Heterojunction Solar Cell with 9.2% Efficiency. <i>Advanced Materials</i> , 2021 , 33, e2104346	24	8
33	Morphology and stoichiometry control of hierarchical CuInSe ₂ /SnO ₂ nanostructures by directed electrochemical assembly for solar energy harvesting. <i>Electrochemistry Communications</i> , 2012 , 15, 18-21	5.1	7
32	Optical and Electrical Properties of Wurtzite Copper Indium Sulfide Nanoflakes. <i>Materials Express</i> , 2012 , 2, 344-350	1.3	7

31	Solution-Processed Semitransparent CZTS Thin-Film Solar Cells via Cation Substitution and Rapid Thermal Annealing. <i>Solar Rrl</i> , 2021 , 5, 2100131	7.1	7
30	Thermal stability of strained Si/Si _{1-x} Ge _x heterostructures for advanced microelectronics devices. <i>Thin Solid Films</i> , 2004 , 462-463, 76-79	2.2	6
29	Silver and Potassium Incorporation in Double-Layer Solution-Processed Cu ₂ ZnSnS ₄ Solar Cell. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10402-10407	6.1	6
28	Molybdenum incorporated Cu _{1.69} ZnSnS ₄ kesterite photovoltaic devices with bilayer microstructure and tunable optical-electronic properties. <i>Solar Energy</i> , 2019 , 194, 777-787	6.8	6
27	The synergistic effect of cation mixing in mesoporous Bi ₂ Fe _{1-x} VO ₄ heterojunction photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14816-14824	13	5
26	Promotional effects of cetyltrimethylammonium bromide surface modification on a hematite photoanode for photoelectrochemical water splitting. <i>RSC Advances</i> , 2015 , 5, 100142-100146	3.7	5
25	An Intrinsically Micro-/Nanostructured Pollen Substrate with Tunable Optical Properties for Optoelectronic Applications. <i>Advanced Materials</i> , 2021 , 33, e2100566	24	5
24	Cation substitution of CZTS solar cell with > 10% efficiency 2016 ,		5
23	An experimentally supported model for the origin of charge transport barrier in Zn(O,S)/CIGS _{Se} solar cells. <i>Applied Physics Letters</i> , 2016 , 108, 043505	3.4	5
22	Photoactive nanocrystals by low-temperature welding of copper sulfide nanoparticles and indium sulfide nanosheets. <i>ChemSusChem</i> , 2014 , 7, 3290-4	8.3	4
21	The Effect of Cu CMP Pad Clean on Defectivity and Reliability. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2013 , 26, 344-349	2.6	4
20	Solution-processed pure Cu ₂ ZnSnS ₄ /CdS thin film solar cell with 7.5% efficiency. <i>Optical Materials</i> , 2021 , 114, 110947	3.3	4
19	Spray pyrolysis synthesized Cu(In,Al)(S,Se) ₂ thin films solar cells. <i>Materials Research Express</i> , 2018 , 5, 035506	1.7	3
18	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) ₂ solar cell. <i>RSC Advances</i> , 2014 , 4, 58372-58376	3.7	3
17	Cu-S Nanocabbage Films with Tunable Optical Bandgap and Substantially Improved Stability by Pulse Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2011 , 158, E60	3.9	3
16	Comparing the Effect of Mn Substitution in Sulfide and Sulfoselenide-Based Kesterite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900521	7.1	3
15	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> , 2021 , 31, 2103807	15.6	3
14	Investigation of selenization and various CBD CdS deposition conditions to fabricate high performing spray pyrolysis synthesized Cu(In,Ga)(S,Se) ₂ solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2017 , 9, 013504	2.5	2

13	Improvement of VOC in Cu ₂ ZnSnS ₄ monograin layer solar cells with tin oxide inter-layer 2015 ,		2
12	Threading dislocation reduction by SiGeC domains in SiGe _{1-x} GeC heterostructure: Role of pure edge dislocations. <i>Applied Physics Letters</i> , 2006 , 89, 231906	3.4	2
11	Void formation in titanium desilicide/p+ silicon interface: impact on junction leakage and silicide sheet resistance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 74, 289-295	3.1	2
10	Multimodal Approach towards Large Area Fully Semitransparent Perovskite Solar Module. <i>Advanced Energy Materials</i> , 2102276	21.8	2
9	High Throughput Discovery of Effective Metal Doping in FeVO ₄ for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 2000437	7.1	2
8	Multi Band Gap Cu(In,Ga)(S,Se) ₂ Thin Films Deposited by Spray Pyrolysis for High Performance Solar Cell Devices. <i>Materials Science Forum</i> , 2016 , 864, 143-148	0.4	2
7	Thermal Studies on Stress-Induced Void-Like Defects in Epitaxial-CoSi ₂ Formation. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 564, 109		1
6	Nanostructured Iron Vanadate Photoanodes with Enhanced Visible Absorption and Charge Separation. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3409-3416	6.1	1
5	High Throughput Discovery of Effective Metal Doping in FeVO ₄ for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 2070096	7.1	
4	Integration of SALICIDE process for deep-submicron CMOS technology: effect of nitrogen/argon-amorphized implant on SALICIDE formation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998 , 51, 274-279	3.1	
3	Material Design for Artificial Photosynthesis using Photoelectrodes for Hydrogen Production 2019 , 231-258		
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