

# Jun-Ho Yum

## List of Publications by Citations

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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.

134 papers	22,922 citations	66 h-index	141 g-index
141 ext. papers	24,423 ext. citations	9.6 avg, IF	6.59 L-index

#	Paper	IF	Citations
134	Lead iodide perovskite sensitized all-solid-state submicron thin film mesoscopic solar cell with efficiency exceeding 9%. <i>Scientific Reports</i> , <b>2012</b> , 2, 591	4.9	5719
133	Organometallic Halide Perovskites: Sharp Optical Absorption Edge and Its Relation to Photovoltaic Performance. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1035-9	6.4	1699
132	Molecular engineering of organic sensitizers for solar cell applications. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16701-7	16.4	728
131	Molecular engineering of organic sensitizers for dye-sensitized solar cell applications. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6259-66	16.4	595
130	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. <i>Nature Communications</i> , <b>2012</b> , 3, 631	17.4	498
129	Optically transparent cathode for dye-sensitized solar cells based on graphene nanoplatelets. <i>ACS Nano</i> , <b>2011</b> , 5, 165-72	16.7	476
128	Efficient far red sensitization of nanocrystalline TiO <sub>2</sub> films by an unsymmetrical squaraine dye. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10320-1	16.4	466
127	Molecular cosensitization for efficient panchromatic dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8358-62	16.4	461
126	Highly efficient water splitting by a dual-absorber tandem cell. <i>Nature Photonics</i> , <b>2012</b> , 6, 824-828	33.9	398
125	Increased light harvesting in dye-sensitized solar cells with energy relay dyes. <i>Nature Photonics</i> , <b>2009</b> , 3, 406-411	33.9	398
124	Complex Refractive Index Spectra of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Thin Films Determined by Spectroscopic Ellipsometry and Spectrophotometry. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 66-71	6.4	391
123	New paradigm in molecular engineering of sensitizers for solar cell applications. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5930-4	16.4	365
122	Graphene nanoplatelets outperforming platinum as the electrocatalyst in co-bipyridine-mediated dye-sensitized solar cells. <i>Nano Letters</i> , <b>2011</b> , 11, 5501-6	11.5	340
121	CdSe Quantum Dot-Sensitized Solar Cells Exceeding Efficiency 1% at Full-Sun Intensity. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11600-11608	3.8	328
120	Efficient sensitization of nanocrystalline TiO <sub>2</sub> films by a near-IR-absorbing unsymmetrical zinc phthalocyanine. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 373-6	16.4	318
119	Cyclopentadithiophene bridged donor-acceptor dyes achieve high power conversion efficiencies in dye-sensitized solar cells based on the tris-cobalt bipyridine redox couple. <i>ChemSusChem</i> , <b>2011</b> , 4, 591-4	8.3	307
118	Panchromatic engineering for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 842-857	9.4	294

117	Recent developments in solid-state dye-sensitized solar cells. <i>ChemSusChem</i> , <b>2008</b> , 1, 699-707	8.3	268
116	Anthocyanins and betalains as light-harvesting pigments for dye-sensitized solar cells. <i>Solar Energy</i> , <b>2012</b> , 86, 1563-1575	6.8	266
115	Sb2S3-Based Mesoscopic Solar Cell using an Organic Hole Conductor. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1524-1527	6.4	261
114	Organic-inorganic halide perovskite/crystalline silicon four-terminal tandem solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 1619-29	3.6	257
113	Graphene nanoplatelet cathode for Co(III)/(II) mediated dye-sensitized solar cells. <i>ACS Nano</i> , <b>2011</b> , 5, 9171-8	16.7	254
112	Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells. <i>Chemical Science</i> , <b>2011</b> , 2, 949	9.4	233
111	High open-circuit voltage solid-state dye-sensitized solar cells with organic dye. <i>Nano Letters</i> , <b>2009</b> , 9, 2487-92	11.5	220
110	A light-resistant organic sensitizer for solar-cell applications. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1576-80	16.4	203
109	Dye-sensitized solar cells based on poly (3,4-ethylenedioxythiophene) counter electrode derived from ionic liquids. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1654		197
108	Efficient co-sensitization of nanocrystalline TiO(2) films by organic sensitizers. <i>Chemical Communications</i> , <b>2007</b> , 4680-2	5.8	191
107	Effect of coadsorbent on the photovoltaic performance of zinc phthalocyanine-sensitized solar cells. <i>Langmuir</i> , <b>2008</b> , 24, 5636-40	4	190
106	Cobalt electrolyte/dye interactions in dye-sensitized solar cells: a combined computational and experimental study. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19438-53	16.4	185
105	Molecular Design of Unsymmetrical Squaraine Dyes for High Efficiency Conversion of Low Energy Photons into Electrons Using TiO2 Nanocrystalline Films. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2720-2727	15.6	185
104	An improved perylene sensitizer for solar cell applications. <i>ChemSusChem</i> , <b>2008</b> , 1, 615-8	8.3	185
103	Cyclometallated iridium complexes for conversion of light into electricity and electricity into light. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 2661-2670	2.3	183
102	Raman Spectroscopy of Organic-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 401-6	6.4	182
101	Y[sub 3]Al[sub 5]O[sub 12]:Ce[sub 0.05] Phosphor Coatings on Gallium Nitride for White Light Emitting Diodes. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, H47	3.9	180
100	Di-branched di-anchoring organic dyes for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 1094	35.4	175

99	Examining architectures of photoanode-photovoltaic tandem cells for solar water splitting. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 17-24	2.5	157
98	Carboxyethynyl anchoring ligands: a means to improving the efficiency of phthalocyanine-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 4375-8	16.4	156
97	Structure-function relationships in unsymmetrical zinc phthalocyanines for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 5130-7	4.8	150
96	High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 1193-201	4.8	136
95	A high-efficiency panchromatic squaraine sensitizer for dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6619-21	16.4	131
94	Blue-coloured highly efficient dye-sensitized solar cells by implementing the diketopyrrolopyrrole chromophore. <i>Scientific Reports</i> , <b>2013</b> , 3, 2446	4.9	130
93	Molecular Cosensitization for Efficient Panchromatic Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 8510-8514	3.6	130
92	Unsymmetrical alkoxy zinc phthalocyanine for sensitization of nanocrystalline TiO <sub>2</sub> films. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 1611-1617	6.4	121
91	Efficient platinum-free counter electrodes for dye-sensitized solar cell applications. <i>ChemPhysChem</i> , <b>2010</b> , 11, 2814-9	3.2	118
90	Optically transparent cathode for Co(III/II) mediated dye-sensitized solar cells based on graphene oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 6999-7006	9.5	105
89	Effect of coadsorbent on the photovoltaic performance of squaraine sensitized nanocrystalline solar cells. <i>Nanotechnology</i> , <b>2008</b> , 19, 424005	3.4	103
88	Electron-rich heteroaromatic conjugated bipyridine based ruthenium sensitizer for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2008</b> , 5318-20	5.8	101
87	The Many Faces of Mixed Ion Perovskites: Unraveling and Understanding the Crystallization Process. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2686-2693	20.1	100
86	Organic-Inorganic Halide Perovskites: Perspectives for Silicon-Based Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2014</b> , 4, 1545-1551	3.7	100
85	Flexible dye-sensitized solar cells using ZnO coated TiO <sub>2</sub> nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2005</b> , 171, 269-273	4.7	98
84	Electrophoretically deposited TiO <sub>2</sub> photo-electrodes for use in flexible dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2005</b> , 173, 1-6	4.7	98
83	High efficient donor-acceptor ruthenium complex for dye-sensitized solar cell applications. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 100-102	35.4	97
82	High excitation transfer efficiency from energy relay dyes in dye-sensitized solar cells. <i>Nano Letters</i> , <b>2010</b> , 10, 3077-83	11.5	91

81	The role of bridges in high-efficiency DSCs based on unsymmetrical squaraines. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1819-27	4.8	90
80	Improved performance of a dye-sensitized solar cell using a TiO <sub>2</sub> /ZnO/Eosin Y electrode. <i>Solar Energy Materials and Solar Cells</i> , <b>2003</b> , 79, 495-505	6.4	90
79	Increasing the efficiency of zinc-phthalocyanine based solar cells through modification of the anchoring ligand. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 189-194	35.4	89
78	Panchromatic response in solid-state dye-sensitized solar cells containing phosphorescent energy relay dyes. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9277-80	16.4	89
77	Laser-Scribing Patterning for the Production of Organometallic Halide Perovskite Solar Modules. <i>IEEE Journal of Photovoltaics</i> , <b>2015</b> , 5, 1087-1092	3.7	87
76	Effect of anchoring groups in zinc phthalocyanine on the dye-sensitized solar cell performance and stability. <i>Chemical Science</i> , <b>2011</b> , 2, 1145	9.4	87
75	Highly Efficient Organic Sensitizers for Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16816-16820	3.8	86
74	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. <i>Electrochimica Acta</i> , <b>2014</b> , 128, 349-359	6.7	84
73	Improved performance in dye-sensitized solar cells employing TiO <sub>2</sub> photoelectrodes coated with metal hydroxides. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3215-9	3.4	82
72	Towards high-performance DPP-based sensitizers for DSC applications. <i>Chemical Communications</i> , <b>2012</b> , 48, 10727-9	5.8	73
71	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19980-19991	16.4	72
70	Synthesis of size-controlled CdSe quantum dots and characterization of CdSe/conjugated polymer blends for hybrid solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 179, 135-144	4.7	68
69	Facile preparation of large aspect ratio ellipsoidal anatase TiO <sub>2</sub> nanoparticles and their application to dye-sensitized solar cell. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 909-912	5.1	66
68	Cyclometallated iridium complexes as sensitizers for dye-sensitized solar cells. <i>Chemistry - an Asian Journal</i> , <b>2010</b> , 5, 496-9	4.5	66
67	Evaluation of a ruthenium oxyquinolate architecture for dye-sensitized solar cells. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 1-3	5.1	65
66	A structural study of DPP-based sensitizers for DSC applications. <i>Chemical Communications</i> , <b>2012</b> , 48, 10724-6	5.8	64
65	Silicon-naphthalo/phthalocyanine-hybrid sensitizer for efficient red response in dye-sensitized solar cells. <i>Organic Letters</i> , <b>2013</b> , 15, 784-7	6.2	62
64	Efficient Sensitization of Nanocrystalline TiO <sub>2</sub> Films by a Near-IR-Absorbing Unsymmetrical Zinc Phthalocyanine. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 377-380	3.6	62

63	Molecular Engineering of Phthalocyanine Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17166-17170	3.8	61
62	High Molar Extinction Coefficient Ruthenium Sensitizers for Thin Film Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1998-2003	3.8	57
61	Pt <sub>2</sub> NiO nanophase electrodes for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 283-290	6.4	57
60	Inorganic p-Type Semiconductors: Their Applications and Progress in Dye-Sensitized Solar Cells and Perovskite Solar Cells. <i>Energies</i> , <b>2016</b> , 9, 331	3.1	57
59	Facile synthesis of a bulky BTPA donor group suitable for cobalt electrolyte based dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5535	13	55
58	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6583-6588	16.4	53
57	Incorporating multiple energy relay dyes in liquid dye-sensitized solar cells. <i>ChemPhysChem</i> , <b>2011</b> , 12, 657-61	3.2	50
56	Structural parameters controlling the performance of organized mesoporous TiO <sub>2</sub> films in dye sensitized solar cells. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 656-662	2.7	50
55	Panchromatic cross-substituted squaraines for dye-sensitized solar cell applications. <i>ChemSusChem</i> , <b>2009</b> , 2, 621-4	8.3	49
54	Unsymmetrical extended $\pi$ -conjugated zinc phthalocyanine for sensitization of nanocrystalline TiO <sub>2</sub> films. <i>Journal of Chemical Sciences</i> , <b>2009</b> , 121, 75-82	1.8	49
53	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11428-11433	16.4	48
52	Bis-DonorBis-Acceptor Tribranched Organic Sensitizers for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 6195-6205	3.2	48
51	Phenomenally high molar extinction coefficient sensitizer with "donor-acceptor" ligands for dye-sensitized solar cell applications. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 2267-73	5.1	47
50	Sterically hindered phthalocyanines for dye-sensitized solar cells: influence of the distance between the aromatic core and the anchoring group. <i>ChemPhysChem</i> , <b>2014</b> , 15, 1033-6	3.2	46
49	Carbon/graphene nanocomposite cathodes for improved Co(II/III) mediated dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4982	13	46
48	A Light-Resistant Organic Sensitizer for Solar-Cell Applications. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1604-1608	9.8	44
47	Phosphorescent energy relay dye for improved light harvesting response in liquid dye-sensitized solar cells. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 434	35.4	42
46	A new family of heteroleptic ruthenium(II) polypyridyl complexes for sensitization of nanocrystalline TiO <sub>2</sub> films. <i>Dalton Transactions</i> , <b>2011</b> , 40, 4497-504	4.3	42

45	Diketopyrrolopyrrole-based sensitizers for dye-sensitized solar cell applications: anchor engineering. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13978	13	40
44	Panchromatic symmetrical squaraines: a step forward in the molecular engineering of low cost blue-greenish sensitizers for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 24173-7	3.6	39
43	Heteroleptic ruthenium complex containing substituted triphenylamine hole-transport unit as sensitizer for stable dye-sensitized solar cell. <i>Nano Energy</i> , <b>2012</b> , 1, 6-12	17.1	36
42	A High-Efficiency Panchromatic Squaraine Sensitizer for Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6749-6751	3.6	36
41	High-voltage (1.8 V) tandem solar cell system using a GaAs/Al <sub>x</sub> Ga <sub>(1-x)</sub> As graded solar cell and dye-sensitized solar cells with organic dyes having different absorption spectra. <i>Solar Energy</i> , <b>2011</b> , 85, 1220-1225	6.8	35
40	Effect of heat and light on the performance of dye-sensitized solar cells based on organic sensitizers and nanostructured TiO <sub>2</sub> . <i>Nano Today</i> , <b>2010</b> , 5, 91-98	17.9	34
39	Toward Higher Photovoltage: Effect of Blocking Layer on Cobalt Bipyridine Pyrazole Complexes as Redox Shuttle for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16799-16805	3.8	33
38	Convergent synthesis of near-infrared absorbing, "push-pull", bithiophene-substituted, zinc(II) phthalocyanines and their application in dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 6343-8	4.8	32
37	Dye-sensitized solar cells with Pt <sub>2</sub> NiO and Pt <sub>2</sub> TiO <sub>2</sub> biphasic counter electrodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2007</b> , 189, 301-306	4.7	32
36	Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sub>0.05</sub> phosphor coatings on a flexible substrate for use in white light-emitting diodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2004</b> , 251, 203-207	5.1	30
35	Carboxyethynyl Anchoring Ligands: A Means to Improving the Efficiency of Phthalocyanine-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 4451-4454	3.6	29
34	Establishing Stability in Organic Semiconductor Photocathodes for Solar Hydrogen Production. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7795-7802	16.4	26
33	Functionalized alkyne bridged dendron based chromophores for dye-sensitized solar cell applications. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 1082	35.4	26
32	Carboxy-1,4-phenylenevinylene- and carboxy-2, 6-naphthylene-vinylene unsymmetrical substituted zinc phthalocyanines for dye-sensitized solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2009</b> , 13, 369-375	1.8	25
31	Blue electroluminescence from spiro-configured polyfluorene derivatives with hetero-atoms. <i>Journal of Luminescence</i> , <b>2005</b> , 115, 109-116	3.8	25
30	A simple synthetic route to obtain pure trans-ruthenium(II) complexes for dye-sensitized solar cell applications. <i>ChemSusChem</i> , <b>2013</b> , 6, 2170-80	8.3	24
29	Application of graphene-based nanostructures in dye-sensitized solar cells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2643-2648	1.3	24
28	Towards flexibility: metal free plastic cathodes for dye sensitized solar cells. <i>Chemical Communications</i> , <b>2012</b> , 48, 9714-6	5.8	24



27	Effect of bulky groups in ruthenium heteroleptic sensitizers on dye sensitized solar cell performance. <i>Chemical Science</i> , <b>2012</b> , 3, 1177	9.4	23
26	Highly soluble energy relay dyes for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11306-12	3.6	23
25	Organized Mesoporous TiO <sub>2</sub> Films Stabilized by Phosphorus: Application for Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, H99	3.9	23
24	Successful demonstration of an efficient I <sup>-</sup> /(SeCN) <sub>2</sub> redox mediator for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 469-72	3.6	22
23	Comparison of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sub>0.05</sub> phosphor coating methods for white-light-emitting diode on gallium nitride <b>2001</b> ,		22
22	The Effect of Ar/O <sub>2</sub> Ratio on Electrochromic Response Time of Ni Oxides Grown Using an RF Sputtering System. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, L212-L215	1.4	21
21	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12696-12704	16.4	19
20	Peripherally and axially carboxylic acid substituted subphthalocyanines for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2016-21	4.8	19
19	Nanocrystalline Boron-Doped Diamond as a Corrosion-Resistant Anode for Water Oxidation via Si Photoelectrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29552-29564	9.5	17
18	Influence of salts on ionic diffusion in oligomer electrolytes and its implication in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2008</b> , 194, 148-151	4.7	16
17	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6683-6688	3.6	15
16	Customized Energy Down-Shift Using Iridium Complexes for Enhanced Performance of Polymer Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 991-999	20.1	15
15	Adhesion Improvement of Phosphor Layer by Combining Electrophoretic Deposition and UV Curing. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, H43	3.9	12
14	Pyridyl- and Picolinic Acid Substituted Zinc(II) Phthalocyanines for Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , <b>2017</b> , 82, 1057-1061	2.8	11
13	Nanofibrous TiO <sub>2</sub> improving performance of mesoporous TiO <sub>2</sub> electrode in dye-sensitized solar cell. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	11
12	Panchromatic Response in Solid-State Dye-Sensitized Solar Cells Containing Phosphorescent Energy Relay Dyes. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 9441-9444	3.6	11
11	Full Color Screen by EPD Combined with Photolithography for Flat Panel Displays. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, H27	3.9	11
10	A semiconducting polymer bulk heterojunction photoanode for solar water oxidation. <i>Nature Catalysis</i> , <b>2021</b> , 4, 431-438	36.5	11



9	Panchromatic light harvesting by dye- and quantum dot-sensitized solar cells. <i>Solar Energy</i> , <b>2014</b> , 109, 183-188	6.8	10
8	Multidimensional Anodized Titanium Foam Photoelectrode for Efficient Utilization of Photons in Mesoscopic Solar Cells. <i>Small</i> , <b>2017</b> , 13, 1701458	11	10
7	A molecularly engineered fluorene-substituted Ru-complex for efficient mesoscopic dye-sensitized solar cells. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2011</b> , 2, 035016	1.6	10
6	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12826-12834	3.6	7
5	CdSe Quantum Dots Sensitized TiO <sub>2</sub> Electrodes for Photovoltaic Cells. <i>Journal of the Korean Electrochemical Society</i> , <b>2007</b> , 10, 257-261		7
4	Robust Electron Transport Layers via In Situ Cross-Linking of Perylene Diimide and Fullerene for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6616-6623	6.1	6
3	Benzodithiophene-Based Spacers for Layered and Quasi-Layered Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2021</b> , 14, 3001-3009	8.3	3
2	A hybrid bulk-heterojunction photoanode for direct solar-to-chemical conversion. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3141-3151	35.4	3
1	Substitution of Carbazole Modified Fluorenes as Extension in Ru(II) Complex-Influence on Performance of Dye-Sensitized Solar Cells. <i>Advances in OptoElectronics</i> , <b>2011</b> , 2011, 1-10	0.5	1