

Kevin Sivula

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.

141
papers

19,233
citations

59
h-index

138
g-index

159
ext. papers

21,061
ext. citations

12.4
avg, IF

7.3
L-index

#	Paper	IF	Citations
141	Key factors boosting the performance of planar ZnFe ₂ O ₄ photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27736-27747	13	1
140	Organic Semiconductors as Photoanodes for Solar-driven Photoelectrochemical Fuel Production. <i>Chimia</i> , 2021 , 75, 169-179	1.3	2
139	A semiconducting polymer bulk heterojunction photoanode for solar water oxidation. <i>Nature Catalysis</i> , 2021 , 4, 431-438	36.5	11
138	Spray Synthesis of CuFeO ₂ Photocathodes and In-Operando Assessment of Charge Carrier Recombination. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10883-10890	3.8	6
137	Benzodithiophene-Based Spacers for Layered and Quasi-Layered Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2021 , 14, 3001-3009	8.3	3
136	Defect engineered nanostructured LaFeO ₃ photoanodes for improved activity in solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2888-2898	13	8
135	A hybrid bulk-heterojunction photoanode for direct solar-to-chemical conversion. <i>Energy and Environmental Science</i> , 2021 , 14, 3141-3151	35.4	3
134	A Direct Z-Scheme for the Photocatalytic Hydrogen Production from a Water Ethanol Mixture on CoTiO/TiO Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 449-457	9.5	10
133	Spectroelectrochemical and Chemical Evidence of Surface Passivation at Zinc Ferrite (ZnFe ₂ O ₄) Photoanodes for Solar Water Oxidation. <i>Advanced Functional Materials</i> , 2021 , 31, 2010081	15.6	15
132	Mott-Schottky Analysis of Photoelectrodes: Sanity Checks Are Needed. <i>ACS Energy Letters</i> , 2021 , 6, 2549-2551	25.1	19
131	Identifying Reactive Sites and Surface Traps in Chalcopyrite Photocathodes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23651-23655	16.4	3
130	Identifizierung von reaktiven Zentren und Oberflächenfallen in Chalkopyrit-Photokathoden. <i>Angewandte Chemie</i> , 2021 , 133, 23843	3.6	0
129	Why Seeing Is Not Always Believing: Common Pitfalls in Photocatalysis and Electrocatalysis. <i>ACS Energy Letters</i> , 2021 , 6, 707-709	20.1	12
128	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19980-19991	16.4	72
127	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11428-11433	16.4	48
126	Generalized Synthesis to Produce Transparent Thin Films of Ternary Metal Oxide Photoelectrodes. <i>ChemSusChem</i> , 2020 , 13, 3645-3653	8.3	4
125	Understanding Surface Recombination Processes Using Intensity-Modulated Photovoltage Spectroscopy on Hematite Photoanodes for Solar Water Splitting. <i>Helvetica Chimica Acta</i> , 2020 , 103, e2000064	2	4

124	Hydrogenation of ZnFe ₂ O ₄ Flat Films: Effects of the Pre-Annealing Temperature on the Photoanodes Efficiency for Water Oxidation. <i>Surfaces</i> , 2020 , 3, 93-104	2.9	6
123	Taking lanthanides out of isolation: tuning the optical properties of metal-organic frameworks. <i>Chemical Science</i> , 2020 , 11, 4164-4170	9.4	6
122	CuO photocathodes with band-tail states assisted hole transport for standalone solar water splitting. <i>Nature Communications</i> , 2020 , 11, 318	17.4	70
121	Establishing Stability in Organic Semiconductor Photocathodes for Solar Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7795-7802	16.4	26
120	FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. <i>Progress in Materials Science</i> , 2020 , 110, 100632	42.2	33
119	Influence of Composition on Performance in Metallic Iron-Nickel-Cobalt Ternary Anodes for Alkaline Water Electrolysis. <i>ACS Catalysis</i> , 2020 , 10, 12139-12147	13.1	11
118	MIL-101(Fe)/g-C ₃ N ₄ for enhanced visible-light-driven photocatalysis toward simultaneous reduction of Cr(VI) and oxidation of bisphenol A in aqueous media. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 119033	21.8	131
117	Achieving visible light-driven hydrogen evolution at positive bias with a hybrid copper-iron oxide/TiO ₂ -cobaloxime photocathode. <i>Green Chemistry</i> , 2020 , 22, 3141-3149	10	7
116	Direct photoelectrochemical oxidation of hydroxymethylfurfural on tungsten trioxide photoanodes. <i>RSC Advances</i> , 2020 , 11, 198-202	3.7	4
115	Alternative Oxidation Reactions for Solar-Driven Fuel Production. <i>ACS Catalysis</i> , 2019 , 9, 2007-2017	13.1	59
114	Solution-Processed Ultrathin SnS-Pt Nanoplates for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6918-6926	9.5	36
113	Insights into the interfacial carrier behaviour of copper ferrite (CuFe ₂ O ₄) photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1669-1677	13	42
112	In Situ Electrochemical Oxidation of Cu ₂ S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019 , 31, 7732-7743	9.6	69
111	Robust Electron Transport Layers via In Situ Cross-Linking of Perylene Diimide and Fullerene for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6616-6623	6.1	6
110	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12696-12704	16.4	19
109	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 12826-12834	3.6	7
108	Energy Selects. <i>ACS Energy Letters</i> , 2019 , 4, 2021-2023	20.1	2
107	Porous NiTiO ₃ /TiO ₂ nanostructures for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17053-17059	13	21

106	Multiarm and Substituent Effects on Charge Transport of Organic Hole Transport Materials. <i>Chemistry of Materials</i> , 2019 , 31, 6605-6614	9.6	15
105	Roll-to-Roll Deposition of Semiconducting 2D Nanoflake Films of Transition Metal Dichalcogenides for Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7705-7712	5.6	15
104	Fully Conjugated Donor-Acceptor Block Copolymers for Organic Photovoltaics via Heck-Mizoroki Coupling. <i>ACS Macro Letters</i> , 2019 , 8, 134-139	6.6	18
103	Catalyst-Free, Fast, and Tunable Synthesis for Robust Covalent Polymer Network Semiconducting Thin Films. <i>Advanced Functional Materials</i> , 2018 , 28, 1706303	15.6	6
102	Design and validation of a foldable and photovoltaic wide-field epiretinal prosthesis. <i>Nature Communications</i> , 2018 , 9, 992	17.4	73
101	Chapter 6: Emerging Semiconductor Oxides for Direct Solar Water Splitting. <i>RSC Energy and Environment Series</i> , 2018 , 163-182	0.6	3
100	Photocatalytic hydrogen generation from a visible-light responsive metal-organic framework system: the impact of nickel phosphide nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2476-2487	13	68
99	Melt-processing of small molecule organic photovoltaics bulk heterojunction compatibilization. <i>Green Chemistry</i> , 2018 , 20, 2218-2224	10	7
98	Evaluating spinel ferrites MFe ₂ O ₄ (M = Cu, Mg, Zn) as photoanodes for solar water oxidation: prospects and limitations. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 103-117	5.8	93
97	Nanocrystalline Boron-Doped Diamond as a Corrosion-Resistant Anode for Water Oxidation via Si Photoelectrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29552-29564	9.5	17
96	Potential-sensing electrochemical atomic force microscopy for in operando analysis of water-splitting catalysts and interfaces. <i>Nature Energy</i> , 2018 , 3, 46-52	62.3	111
95	Defect Mitigation of Solution-Processed 2D WSe Nanoflakes for Solar-to-Hydrogen Conversion. <i>Nano Letters</i> , 2018 , 18, 215-222	11.5	50
94	A Step toward Economically Viable Solar Fuel Production. <i>Chem</i> , 2018 , 4, 2490-2492	16.2	1
93	Iron-Rich Natural Mineral Gibeon Meteorite Catalyzed N-formylation of Amines using CO ₂ as the C1 Source. <i>ChemistrySelect</i> , 2018 , 3, 10271-10276	1.8	11
92	Organic Semiconductor Based Devices for Solar Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1802585	21.8	64
91	Conjugation break spacers and flexible linkers as tools to engineer the properties of semiconducting polymers. <i>Polymer Journal</i> , 2018 , 50, 725-736	2.7	16
90	Spinel Structural Disorder Influences Solar-Water-Splitting Performance of ZnFe O Nanorod Photoanodes. <i>Advanced Materials</i> , 2018 , 30, e1801612	24	78
89	CuInGaS ₂ photocathodes treated with SbX ₃ (X = Cl, I): the effect of the halide on solar water splitting performance. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 044003	3	9

88	Hybrid Heterojunctions of Solution-Processed Semiconducting 2D Transition Metal Dichalcogenides. <i>ACS Energy Letters</i> , 2017 , 2, 524-531	20.1	24
87	Heterotetracenes: Flexible Synthesis and in Silico Assessment of the Hole-Transport Properties. <i>Chemistry - A European Journal</i> , 2017 , 23, 8058-8065	4.8	21
86	Engineering the self-assembly of diketopyrrolopyrrole-based molecular semiconductors via an aliphatic linker strategy. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10526-10536	13	7
85	Evaluating Charge Carrier Transport and Surface States in CuFeO ₂ Photocathodes. <i>Chemistry of Materials</i> , 2017 , 29, 4952-4962	9.6	106
84	Layered 2D semiconducting transition metal dichalcogenides for solar energy conversion. <i>Current Opinion in Electrochemistry</i> , 2017 , 2, 97-103	7.2	25
83	Semiconducting alternating multi-block copolymers via a di-functionalized macromonomer approach. <i>Polymer Chemistry</i> , 2017 , 8, 824-827	4.9	6
82	The Many Faces of Mixed Ion Perovskites: Unraveling and Understanding the Crystallization Process. <i>ACS Energy Letters</i> , 2017 , 2, 2686-2693	20.1	100
81	Photogenerated Charge Harvesting and Recombination in Photocathodes of Solvent-Exfoliated WSe ₂ . <i>Chemistry of Materials</i> , 2017 , 29, 6863-6875	9.6	33
80	Morphology stabilization strategies for small-molecule bulk heterojunction photovoltaics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17517-17524	13	14
79	Amorphous Ternary Charge-Cascade Molecules for Bulk Heterojunction Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27825-27831	9.5	18
78	Molecular Strategies for Morphology Control in Semiconducting Polymers for Optoelectronics. <i>Chimia</i> , 2017 , 71, 369-375	1.3	3
77	Advancing Materials and Methods for Photoelectrochemical Energy Conversion. <i>Chimia</i> , 2017 , 71, 471-475	1.3	3
76	Improving charge collection with delafossite photocathodes: a host-guest CuAlO ₂ /CuFeO ₂ approach. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3018-3026	13	68
75	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. <i>Energy and Environmental Science</i> , 2016 , 9, 3448-3455	35.4	26
74	Effect of molecular weight in diketopyrrolopyrrole-based polymers in transistor and photovoltaic applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2245-2253	2.6	7
73	Semiconducting materials for photoelectrochemical energy conversion. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	899
72	Switchable Photoelectrodes: Robust Hierarchically Structured Biphasic Ambipolar Oxide Photoelectrodes for Light-Driven Chemical Regulation and Switchable Logic Applications (Adv. Mater. 42/2016). <i>Advanced Materials</i> , 2016 , 28, 9440-9440	24	1
71	Toward Large-Area Solar Energy Conversion with Semiconducting 2D Transition Metal Dichalcogenides. <i>ACS Energy Letters</i> , 2016 , 1, 315-322	20.1	61

70	A Bottom-Up Approach toward All-Solution-Processed High-Efficiency Cu(In,Ga)S ₂ Photocathodes for Solar Water Splitting. <i>Advanced Energy Materials</i> , 2016 , 6, 1501949	21.8	84
69	Intrinsic Halide Segregation at Nanometer Scale Determines the High Efficiency of Mixed Cation/Mixed Halide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15821-15824	16.4	141
68	Advanced Device Architectures and Tandem Devices 2016 , 493-512		2
67	Robust Hierarchically Structured Biphasic Ambipolar Oxide Photoelectrodes for Light-Driven Chemical Regulation and Switchable Logic Applications. <i>Advanced Materials</i> , 2016 , 28, 9308-9312	24	23
66	The Role of Excitons and Free Charges in the Excited-State Dynamics of Solution-Processed Few-Layer MoS ₂ Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23286-23292	3.8	25
65	Templating Sol-Gel Hematite Films with Sacrificial Copper Oxide: Enhancing Photoanode Performance with Nanostructure and Oxygen Vacancies. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16999-7007	9.5	33
64	Self-assembled 2D WSe ₂ thin films for photoelectrochemical hydrogen production. <i>Nature Communications</i> , 2015 , 6, 7596	17.4	193
63	Toward Economically Feasible Direct Solar-to-Fuel Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 975-6	6.4	27
62	Autodecomposition Approach for the Low-Temperature Mesostructuring of Nanocrystal Semiconductor Electrodes. <i>Chemistry of Materials</i> , 2015 , 27, 6337-6344	9.6	6
61	Direct Light-Driven Water Oxidation by a Ladder-Type Conjugated Polymer Photoanode. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15338-41	16.4	69
60	Enhancing the Thermal Stability of Solution-Processed Small-Molecule Semiconductor Thin Films Using a Flexible Linker Approach. <i>Advanced Materials</i> , 2015 , 27, 5541-6	24	21
59	Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis. <i>Chimia</i> , 2015 , 69, 789-798	1.3	25
58	Surface modification of semiconductor photoelectrodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15655-74	3.6	110
57	Artificial Photosynthesis with Semiconductor-Liquid Junctions. <i>Chimia</i> , 2015 , 69, 30-40	1.3	4
56	Enhancing the Performance of a robust sol-gel-processed p-type delafossite CuFeO ₂ photocathode for solar water reduction. <i>ChemSusChem</i> , 2015 , 8, 1359-67	8.3	189
55	A novel approach for the preparation of textured CuO thin films from electrodeposited CuCl and CuBr. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 717-718, 243-249	4.1	33
54	Enhancing the Charge Separation in Nanocrystalline Cu ₂ ZnSnS ₄ Photocathodes for Photoelectrochemical Application: The Role of Surface Modifications. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3902-8	6.4	37
53	A Bismuth Vanadate/Cuprous Oxide Tandem Cell for Overall Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16959-16966	3.8	206

52	Hematite photoelectrodes for water splitting: evaluation of the role of film thickness by impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16515-23	3.6	142
51	Multiflake Thin Film Electronic Devices of Solution Processed 2D MoS ₂ Enabled by Sonopolymer Assisted Exfoliation and Surface Modification. <i>Chemistry of Materials</i> , 2014 , 26, 5892-5899	9.6	81
50	Controlling conjugated polymer morphology and charge carrier transport with a flexible-linker approach. <i>Chemical Science</i> , 2014 , 5, 4922-4927	9.4	35
49	Defects Give New Life to an Old Material: Electronically Leaky Titania as a Photoanode Protection Layer. <i>ChemCatChem</i> , 2014 , 6, 2796-2797	5.2	17
48	Photoelectrochemical Tandem Cells for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17879-17893	3.8	411
47	Optimization and stabilization of electrodeposited Cu ₂ ZnSnS ₄ photocathodes for solar water reduction. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8018-24	9.5	134
46	Effects of Molecular Weight on Microstructure and Carrier Transport in a Semicrystalline Poly(thieno)thiophene. <i>Macromolecules</i> , 2013 , 46, 9349-9358	5.5	45
45	Metal Oxide Photoelectrodes for Solar Fuel Production, Surface Traps, and Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1624-33	6.4	254
44	Solar-to-Chemical Energy Conversion with Photoelectrochemical Tandem Cells. <i>Chimia</i> , 2013 , 67, 155-611.3	1.3	27
43	Highly efficient water splitting by a dual-absorber tandem cell. <i>Nature Photonics</i> , 2012 , 6, 824-828	33.9	398
42	The Transient Photocurrent and Photovoltage Behavior of a Hematite Photoanode under Working Conditions and the Influence of Surface Treatments. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26707-26720	2.8	253
41	TaOxNy Sputtered Photoanodes For Solar Water Splitting. <i>Energy Procedia</i> , 2012 , 22, 119-126	2.3	11
40	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16870-16875	3.8	124
39	Dynamics of photogenerated holes in surface modified Fe ₂ O ₃ photoanodes for solar water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15640-5	11.5	362
38	Correlating long-lived photogenerated hole populations with photocurrent densities in hematite water oxidation photoanodes. <i>Energy and Environmental Science</i> , 2012 , 5, 6304-6312	35.4	171
37	Facile fabrication of tin-doped hematite photoelectrodes Effect of doping on magnetic properties and performance for light-induced water splitting. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23232		58
36	A Ga ₂ O ₃ underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. <i>Faraday Discussions</i> , 2012 , 155, 223-32; discussion 297-308	3.6	90
35	LaTiO ₂ N/In ₂ O ₃ photoanodes with improved performance for solar water splitting. <i>Chemical Communications</i> , 2012 , 48, 820-2	5.8	62

34	Enhancement in the performance of ultrathin hematite photoanode for water splitting by an oxide underlayer. <i>Advanced Materials</i> , 2012 , 24, 2699-702	24	257
33	Iron resonant photoemission spectroscopy on anodized hematite points to electron hole doping during anodization. <i>ChemPhysChem</i> , 2012 , 13, 2937-44	3.2	17
32	Solar hydrogen production with semiconductor metal oxides: new directions in experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 49-70	3.6	171
31	Nanostructured α -Fe ₂ O ₃ Photoanodes. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2012 , 121-156		8
30	Enhanced light harvesting in mesoporous TiO ₂ /P3HT hybrid solar cells using a porphyrin dye. <i>Chemical Communications</i> , 2011 , 47, 8244-6	5.8	55
29	Evolution of an Oxygen Near-Edge X-ray Absorption Fine Structure Transition in the Upper Hubbard Band in α -Fe ₂ O ₃ upon Electrochemical Oxidation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5619-5625	3.8	56
28	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. <i>Chemical Science</i> , 2011 , 2, 737-743	9.4	675
27	Probing the photoelectrochemical properties of hematite (α -Fe ₂ O ₃) electrodes using hydrogen peroxide as a hole scavenger. <i>Energy and Environmental Science</i> , 2011 , 4, 958-964	35.4	803
26	Highly active oxide photocathode for photoelectrochemical water reduction. <i>Nature Materials</i> , 2011 , 10, 456-61	27	1687
25	Dynamics of photogenerated holes in nanocrystalline α -Fe ₂ O ₃ electrodes for water oxidation probed by transient absorption spectroscopy. <i>Chemical Communications</i> , 2011 , 47, 716-8	5.8	234
24	Photo-assisted electrodeposition of cobalt phosphide (Co ₃ P) catalyst on hematite photoanodes for solar water oxidation. <i>Energy and Environmental Science</i> , 2011 , 4, 1759	35.4	564
23	Activation energies for the rate-limiting step in water photooxidation by nanostructured α -Fe ₂ O ₃ and TiO ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 10134-40	16.4	225
22	Solar water splitting: progress using hematite (α -Fe ₂ O ₃) photoelectrodes. <i>ChemSusChem</i> , 2011 , 4, 432-49	8.3	2071
21	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. <i>Energy and Environmental Science</i> , 2011 , 4, 2512	35.4	243
20	Examining architectures of photoanode-photovoltaic tandem cells for solar water splitting. <i>Journal of Materials Research</i> , 2010 , 25, 17-24	2.5	157
19	Photoelectrochemical water splitting with mesoporous hematite prepared by a solution-based colloidal approach. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7436-44	16.4	790
18	Decoupling feature size and functionality in solution-processed, porous hematite electrodes for solar water splitting. <i>Nano Letters</i> , 2010 , 10, 4155-60	11.5	271
17	Preferential Orientation in Hematite Films for Solar Hydrogen Production via Water Splitting. <i>Chemical Vapor Deposition</i> , 2010 , 16, 291-295		51

16	Controlling Photoactivity in Ultrathin Hematite Films for Solar Water-Splitting. <i>Advanced Functional Materials</i> , 2010 , 20, 1099-1107	15.6	324
15	Light-Induced Water Splitting with Hematite: Improved Nanostructure and Iridium Oxide Catalysis. <i>Angewandte Chemie</i> , 2010 , 122, 6549-6552	3.6	233
14	Light-induced water splitting with hematite: improved nanostructure and iridium oxide catalysis. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6405-8	16.4	814
13	Nanostructured p-type cobalt layered double hydroxide/n-type polymer bulk heterojunction yields an inexpensive photovoltaic cell. <i>Thin Solid Films</i> , 2009 , 517, 5722-5727	2.2	32
12	Regenerative PbS and CdS quantum dot sensitized solar cells with a cobalt complex as hole mediator. <i>Langmuir</i> , 2009 , 25, 7602-8	4	262
11	Influence of Feature Size, Film Thickness, and Silicon Doping on the Performance of Nanostructured Hematite Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 772-782	3.8	548
10	WO ₃ /Fe ₂ O ₃ Photoanodes for Water Splitting: A Host Scaffold, Guest Absorber Approach. <i>Chemistry of Materials</i> , 2009 , 21, 2862-2867	9.6	422
9	High Efficiency Organic Photovoltaics Incorporating a New Family of Soluble Fullerene Derivatives. <i>Chemistry of Materials</i> , 2007 , 19, 2927-2929	9.6	159
8	Influence of Alkyl Substitution Pattern in Thiophene Copolymers on Composite Fullerene Solar Cell Performance. <i>Macromolecules</i> , 2007 , 40, 7425-7428	5.5	93
7	Amphiphilic Diblock Copolymer Compatibilizers and Their Effect on the Morphology and Performance of Polythiophene:Fullerene Solar Cells. <i>Advanced Materials</i> , 2006 , 18, 206-210	24	380
6	Well-Defined Fullerene-Containing Homopolymers and Diblock Copolymers with High Fullerene Content and Their Use for Solution-Phase and Bulk Organization. <i>Macromolecules</i> , 2006 , 39, 70-72	5.5	56
5	Printable polythiophene gas sensor array for low-cost electronic noses. <i>Journal of Applied Physics</i> , 2006 , 100, 014506	2.5	131
4	Enhancing the thermal stability of polythiophene:fullerene solar cells by decreasing effective polymer regioregularity. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13988-9	16.4	206
3	Employing end-functional polythiophene to control the morphology of nanocrystal-polymer composites in hybrid solar cells. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6550-1	16.4	423
2	CHAPTER 4:Tandem Photoelectrochemical Cells for Water Splitting. <i>RSC Energy and Environment Series</i> ,83-108	0.6	10
1	Transparency and Morphology Control of Cu ₂ O Photocathodes via an in Situ Electroconversion. <i>ACS Energy Letters</i> ,1618-1625	20.1	2