Kevin Sivula

List of Publications by Year
in descending order

154 papers	22,924 citations	17405 63 h-index	8138 148 g-index
159 all docs	159 docs citations	159 times ranked	19387 citing authors

#	Article	IF	Citations
1	Solar Water Splitting: Progress Using Hematite (Î±â€Fe₂O₃) Photoelectrodes. ChemSusChem, 2011, 4, 432-449.	3.6	2,334
2	Highly active oxide photocathode for photoelectrochemical water reduction. Nature Materials, 2011, 10, 456-461.	13.3	1,894
3	Semiconducting materials for photoelectrochemical energy conversion. Nature Reviews Materials, 2016, 1, .	23.3	1,212
4	Lightâ€Induced Water Splitting with Hematite: Improved Nanostructure and Iridium Oxide Catalysis. Angewandte Chemie - International Edition, 2010, 49, 6405-6408.	7.2	966
5	Probing the photoelectrochemical properties of hematite (Î±-Fe₂O₃) electrodes using hydrogen peroxide as a hole scavenger. Energy and Environmental Science, 2011, 4, 958-964.	15.6	933
6	Photoelectrochemical Water Splitting with Mesoporous Hematite Prepared by a Solution-Based Colloidal Approach. Journal of the American Chemical Society, 2010, 132, 7436-7444.	6.6	865
7	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. Chemical Science, 2011, 2, 737-743.	3.7	763
8	Photo-assisted electrodeposition of cobaltâ€“phosphate (Coâ€“Pi) catalyst on hematite photoanodes for solar water oxidation. Energy and Environmental Science, 2011, 4, 1759.	15.6	620
9	Influence of Feature Size, Film Thickness, and Silicon Doping on the Performance of Nanostructured Hematite Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2009, 113, 772-782.	1.5	594
10	Photoelectrochemical Tandem Cells for Solar Water Splitting. Journal of Physical Chemistry C, 2013, 117, 17879-17893.	1.5	487
11	WO₃âˆ’Fe₂O₃ Photoanodes for Water Splitting: A Host Scaffold, Guest Absorber Approach. Chemistry of Materials, 2009, 21, 2862-2867.	3.2	455
12	Employing End-Functional Polythiophene To Control the Morphology of Nanocrystalâˆ’Polymer Composites in Hybrid Solar Cells. Journal of the American Chemical Society, 2004, 126, 6550-6551.	6.6	440
13	Highly efficient water splitting by a dual-absorber tandem cell. Nature Photonics, 2012, 6, 824-828.	15.6	437
14	Dynamics of photogenerated holes in surface modified Î±-Fe ₂ O ₃ photoanodes for solar water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15640-15645.	3.3	413
15	Amphiphilic Diblock Copolymer Compatibilizers and Their Effect on the Morphology and Performance of Polythiophene:Fullerene Solar Cells. Advanced Materials, 2006, 18, 206-210.	11.1	401
16	Controlling Photoactivity in Ultrathin Hematite Films for Solar Waterâ€Splitting. Advanced Functional Materials, 2010, 20, 1099-1107.	7.8	357
17	The Transient Photocurrent and Photovoltage Behavior of a Hematite Photoanode under Working Conditions and the Influence of Surface Treatments. Journal of Physical Chemistry C, 2012, 116, 26707-26720.	1.5	315
18	MIL-101(Fe)/g-C3N4 for enhanced visible-light-driven photocatalysis toward simultaneous reduction of Cr(VI) and oxidation of bisphenol A in aqueous media. Applied Catalysis B: Environmental, 2020, 272, 119033.	10.8	293

#	Article	IF	Citations
19	Decoupling Feature Size and Functionality in Solution-Processed, Porous Hematite Electrodes for Solar Water Splitting. Nano Letters, 2010, 10, 4155-4160.	4.5	290
20	Metal Oxide Photoelectrodes for Solar Fuel Production, Surface Traps, and Catalysis. Journal of Physical Chemistry Letters, 2013, 4, 1624-1633.	2.1	288
21	Enhancement in the Performance of Ultrathin Hematite Photoanode for Water Splitting by an Oxide Underlayer. Advanced Materials, 2012, 24, 2699-2702.	11.1	271
22	Regenerative PbS and CdS Quantum Dot Sensitized Solar Cells with a Cobalt Complex as Hole Mediator. Langmuir, 2009, 25, 7602-7608.	1.6	270
23	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. Energy and Environmental Science, 2011, 4, 2512.	15.6	269
24	Dynamics of photogenerated holes in nanocrystalline Î±-Fe₂O₃electrodes for water oxidation probed by transient absorption spectroscopy. Chemical Communications, 2011, 47, 716-718.	2.2	261
25	Activation Energies for the Rate-Limiting Step in Water Photooxidation by Nanostructured Î±-Fe₂O₃ and TiO₂. Journal of the American Chemical Society, 2011, 133, 10134-10140.	6.6	247
26	Self-assembled 2D WSe2 thin films for photoelectrochemical hydrogen production. Nature Communications, 2015, 6, 7596.	5.8	235
27	A Bismuth Vanadateâ€"Cuprous Oxide Tandem Cell for Overall Solar Water Splitting. Journal of Physical Chemistry C, 2014, 118, 16959-16966.	1.5	226
28	Enhancing the Thermal Stability of Polythiophene:Fullerene Solar Cells by Decreasing Effective Polymer Regioregularity. Journal of the American Chemical Society, 2006, 128, 13988-13989.	6.6	225
29	Enhancing the Performance of a Robust Solâ€"Gelâ€Processed pâ€Type Delafossite CuFeO₂ Photocathode for Solar Water Reduction. ChemSusChem, 2015, 8, 1359-1367.	3.6	223
30	Solar hydrogen production with semiconductor metal oxides: new directions in experiment and theory. Physical Chemistry Chemical Physics, 2012, 14, 49-70.	1.3	198
31	Correlating long-lived photogenerated hole populations with photocurrent densities in hematite water oxidation photoanodes. Energy and Environmental Science, 2012, 5, 6304-6312.	15.6	196
32	Intrinsic Halide Segregation at Nanometer Scale Determines the High Efficiency of Mixed Cation/Mixed Halide Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 15821-15824.	6.6	179
33	High Efficiency Organic Photovoltaics Incorporating a New Family of Soluble Fullerene Derivatives. Chemistry of Materials, 2007, 19, 2927-2929.	3.2	167
34	Examining architectures of photoanodeâ€"photovoltaic tandem cells for solar water splitting. Journal of Materials Research, 2010, 25, 17-24.	1.2	166
35	Hematite photoelectrodes for water splitting: evaluation of the role of film thickness by impedance spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 16515.	1.3	162
36	Potential-sensing electrochemical atomic force microscopy for in operando analysis of water-splitting catalysts and interfaces. Nature Energy, 2018, 3, 46-52.	19.8	159

#	Article	IF	Citations
37	The Many Faces of Mixed Ion Perovskites: Unraveling and Understanding the Crystallization Process. ACS Energy Letters, 2017, 2, 2686-2693.	8.8	154
38	Printable polythiophene gas sensor array for low-cost electronic noses. Journal of Applied Physics, 2006, 100, 014506.	1.1	148
39	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 19980-19991.	6.6	145
40	Optimization and Stabilization of Electrodeposited Cu₂ZnSnS₄ Photocathodes for Solar Water Reduction. ACS Applied Materials & Interfaces, 2013, 5, 8018-8024.	4.0	144
41	Cu2O photocathodes with band-tail states assisted hole transport for standalone solar water splitting. Nature Communications, 2020, 11, 318.	5.8	139
42	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2012, 116, 16870-16875.	1.5	137
43	Evaluating Charge Carrier Transport and Surface States in CuFeO₂ Photocathodes. Chemistry of Materials, 2017, 29, 4952-4962.	3.2	133
44	Surface modification of semiconductor photoelectrodes. Physical Chemistry Chemical Physics, 2015, 17, 15655-15674.	1.3	132
45	In Situ Electrochemical Oxidation of Cu₂S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 7732-7743.	3.2	131
46	Design and validation of a foldable and photovoltaic wide-field epiretinal prosthesis. Nature Communications, 2018, 9, 992.	5.8	128
47	Evaluating spinel ferrites MFe₂O₄ (M = Cu, Mg, Zn) as photoanodes for solar water oxidation: prospects and limitations. Sustainable Energy and Fuels, 2018, 2, 103-117.	2.5	119
48	Alternative Oxidation Reactions for Solar-Driven Fuel Production. ACS Catalysis, 2019, 9, 2007-2017.	5.5	115
49	Spinel Structural Disorder Influences Solarâ€Waterâ€Splitting Performance of ZnFe₂O₄ Nanorod Photoanodes. Advanced Materials, 2018, 30, e1801612.	11.1	111
50	Mottâ€“Schottky Analysis of Photoelectrodes: Sanity Checks Are Needed. ACS Energy Letters, 2021, 6, 2549-2551.	8.8	111
51	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 11428-11433.	6.6	107
52	Influence of Alkyl Substitution Pattern in Thiophene Copolymers on Composite Fullerene Solar Cell Performance. Macromolecules, 2007, 40, 7425-7428.	2.2	97
53	A Ga₂O₃underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. Faraday Discussions, 2012, 155, 223-232.	1.6	95
54	Photocatalytic hydrogen generation from a visible-light responsive metalâ€“organic framework system: the impact of nickel phosphide nanoparticles. Journal of Materials Chemistry A, 2018, 6, 2476-2481.	5.2	94

#	Article	IF	Citations
55	Multiflake Thin Film Electronic Devices of Solution Processed 2D MoS₂ Enabled by Sonopolymer Assisted Exfoliation and Surface Modification. Chemistry of Materials, 2014, 26, 5892-5899.	3.2	92
56	A Bottomâ€Up Approach toward Allâ€Solutionâ€Processed Highâ€Efficiency Cu(In,Ga)S₂ Photocathodes for Solar Water Splitting. Advanced Energy Materials, 2016, 6, 1501949.	10.2	88
57	Organic Semiconductor Based Devices for Solar Water Splitting. Advanced Energy Materials, 2018, 8, 1802585.	10.2	88
58	Direct Light-Driven Water Oxidation by a Ladder-Type Conjugated Polymer Photoanode. Journal of the American Chemical Society, 2015, 137, 15338-15341.	6.6	87
59	Improving charge collection with delafossite photocathodes: a hostâ€"guest CuAlO₂/CuFeO₂ approach. Journal of Materials Chemistry A, 2016, 4, 3018-3026.	5.2	86
60	Toward Large-Area Solar Energy Conversion with Semiconducting 2D Transition Metal Dichalcogenides. ACS Energy Letters, 2016, 1, 315-322.	8.8	74
61	Defect Mitigation of Solution-Processed 2D WSe₂ Nanoflakes for Solar-to-Hydrogen Conversion. Nano Letters, 2018, 18, 215-222.	4.5	70
62	Facile fabrication of tin-doped hematite photoelectrodes â€" effect of doping on magnetic properties and performance for light-induced water splitting. Journal of Materials Chemistry, 2012, 22, 23232.	6.7	65
63	Insights into the interfacial carrier behaviour of copper ferrite (CuFe₂O₄) photoanodes for solar water oxidation. Journal of Materials Chemistry A, 2019, 7, 1669-1677.	5.2	65
64	LaTiO₂N/In₂O₃photoanodes with improved performance for solar water splitting. Chemical Communications, 2012, 48, 820-822.	2.2	64
65	Evolution of an Oxygen Near-Edge X-ray Absorption Fine Structure Transition in the Upper Hubbard Band in Î±-Fe₂O₃ upon Electrochemical Oxidation. Journal of Physical Chemistry C, 2011, 115, 5619-5625.	1.5	62
66	Well-Defined Fullerene-Containing Homopolymers and Diblock Copolymers with High Fullerene Content and Their Use for Solution-Phase and Bulk Organization. Macromolecules, 2006, 39, 70-72.	2.2	60
67	Effects of Molecular Weight on Microstructure and Carrier Transport in a Semicrystalline Poly(thieno)thiophene. Macromolecules, 2013, 46, 9349-9358.	2.2	59
68	Enhanced light harvesting in mesoporous TiO2/P3HT hybrid solar cells using a porphyrin dye. Chemical Communications, 2012, 47, 8244-6.	2.2	57
69	Solution-Processed Ultrathin SnS₂â€"Pt Nanoplates for Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 6918-6926.	4.0	57
70	Preferential Orientation in Hematite Films for Solar Hydrogen Production via Water Splitting. Chemical Vapor Deposition, 2010, 16, 291-295.	1.4	55
71	A semiconducting polymer bulk heterojunction photoanode for solar water oxidation. Nature Catalysis, 2021, 4, 431-438.	16.1	48
72	FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. Progress in Materials Science, 2020, 110, 100632.	16.0	47

#	Article	IF	Citations
73	Photogenerated Charge Harvesting and Recombination in Photocathodes of Solvent-Exfoliated WSe₂. Chemistry of Materials, 2017, 29, 6863-6875.	3.2	45
74	Establishing Stability in Organic Semiconductor Photocathodes for Solar Hydrogen Production. Journal of the American Chemical Society, 2020, 142, 7795-7802.	6.6	45
75	Enhancing the Charge Separation in Nanocrystalline Cu₂ZnSnS₄ Photocathodes for Photoelectrochemical Application: The Role of Surface Modifications. Journal of Physical Chemistry Letters, 2014, 5, 3902-3908.	2.1	43
76	Templating Solâ€“Gel Hematite Films with Sacrificial Copper Oxide: Enhancing Photoanode Performance with Nanostructure and Oxygen Vacancies. ACS Applied Materials & Interfaces, 2015, 7, 16999-17007.	4.0	41
77	Controlling conjugated polymer morphology and charge carrier transport with a flexible-linker approach. Chemical Science, 2014, 5, 4922-4927.	3.7	38
78	A novel approach for the preparation of textured CuO thin films from electrodeposited CuCl and CuBr. Journal of Electroanalytical Chemistry, 2014, 717-718, 243-249.	1.9	37
79	A Direct Z-Scheme for the Photocatalytic Hydrogen Production from a Water Ethanol Mixture on CoTiO₃/TiO₂ Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 449-457.	4.0	37
80	Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis. Chimia, 2015, 69, 789.	0.3	35
81	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. Energy and Environmental Science, 2016, 9, 3448-3455.	15.6	35
82	Nanostructured p-type cobalt layered double hydroxide/n-type polymer bulk heterojunction yields an inexpensive photovoltaic cell. Thin Solid Films, 2009, 517, 5722-5727.	0.8	34
83	The Role of Excitons and Free Charges in the Excited-State Dynamics of Solution-Processed Few-Layer MoS₂ Nanoflakes. Journal of Physical Chemistry C, 2016, 120, 23286-23292.	1.5	34
84	Layered 2D semiconducting transition metal dichalcogenides for solar energy conversion. Current Opinion in Electrochemistry, 2017, 2, 97-103.	2.5	33
85	Porous NiTiO₃/TiO₂nanostructures for photocatatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 17053-17059.	5.2	33
86	Covalent Organic Framework Nanoplates Enable Solution-Processed Crystalline Nanofilms for Photoelectrochemical Hydrogen Evolution. Journal of the American Chemical Society, 2022, 144, 10291-10300.	6.6	33
87	Toward Economically Feasible Direct Solar-to-Fuel Energy Conversion. Journal of Physical Chemistry Letters, 2015, 6, 975-976.	2.1	31
88	Hybrid Heterojunctions of Solution-Processed Semiconducting 2D Transition Metal Dichalcogenides. ACS Energy Letters, 2017, 2, 524-531.	8.8	31
89	Solar-to-Chemical Energy Conversion with Photoelectrochemical Tandem Cells. Chimia, 2013, 67, 155.	0.3	30
90	Enhancing the Thermal Stability of Solutionâ€Processed Smallâ€Molecule Semiconductor Thin Films Using a Flexible Linker Approach. Advanced Materials, 2015, 27, 5541-5546.	11.1	30

#	Article	IF	Citations
91	Robust Hierarchically Structured Biphasic Ambipolar Oxide Photoelectrodes for Lightâ€Driven Chemical Regulation and Switchable Logic Applications. Advanced Materials, 2016, 28, 9308-9312.	11.1	30
92	<i>Why Seeing Is Not Always Believing</i>: Common Pitfalls in Photocatalysis and Electrocatalysis. ACS Energy Letters, 2021, 6, 707-709.	8.8	28
93	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 12696-12704.	7.2	27
94	Heterotetracenes: Flexible Synthesis and in Silico Assessment of the Holeâ€Transport Properties. Chemistry - A European Journal, 2017, 23, 8058-8065.	1.7	26
95	Spectroelectrochemical and Chemical Evidence of Surface Passivation at Zinc Ferrite (ZnFe₂O₄) Photoanodes for Solar Water Oxidation. Advanced Functional Materials, 2021, 31, 2010081.	7.8	26
96	Conjugation break spacers and flexible linkers as tools to engineer the properties of semiconducting polymers. Polymer Journal, 2018, 50, 725-736.	1.3	25
97	Roll-to-Roll Deposition of Semiconducting 2D Nanoflake Films of Transition Metal Dichalcogenides for Optoelectronic Applications. ACS Applied Nano Materials, 2019, 2, 7705-7712.	2.4	25
98	Fully Conjugated Donorâ€“Acceptor Block Copolymers for Organic Photovoltaics via Heckâ€“Mizoroki Coupling. ACS Macro Letters, 2019, 8, 134-139.	2.3	25
99	Nanocrystalline Boron-Doped Diamond as a Corrosion-Resistant Anode for Water Oxidation via Si Photoelectrodes. ACS Applied Materials & Interfaces, 2018, 10, 29552-29564.	4.0	23
100	Amorphous Ternary Charge-Cascade Molecules for Bulk Heterojunction Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 27825-27831.	4.0	22
101	Multiarm and Substituent Effects on Charge Transport of Organic Hole Transport Materials. Chemistry of Materials, 2019, 31, 6605-6614.	3.2	21
102	Defects Give New Life to an Old Material: Electronically Leaky Titania as a Photoanode Protection Layer. ChemCatChem, 2014, 6, 2796-2797.	1.8	20
103	Influence of Composition on Performance in Metallic Ironâ€“Nickelâ€“Cobalt Ternary Anodes for Alkaline Water Electrolysis. ACS Catalysis, 2020, 10, 12139-12147.	5.5	20
104	A hybrid bulk-heterojunction photoanode for direct solar-to-chemical conversion. Energy and Environmental Science, 2021, 14, 3141-3151.	15.6	20
105	High Performance Semiconducting Nanosheets <i>via</i> a Scalable Powder-Based Electrochemical Exfoliation Technique. ACS Nano, 2022, 16, 5719-5730.	7.3	20
106	Iron Resonant Photoemission Spectroscopy on Anodized Hematite Points to Electron Hole Doping during Anodization. ChemPhysChem, 2012, 13, 2937-2944.	1.0	19
107	Transparency and Morphology Control of Cu₂O Photocathodes via an <i>in Situ</i> Electroconversion. ACS Energy Letters, 2022, 7, 1618-1625.	8.8	18
108	Ironâ€Rich Natural Mineral Gibeon Meteorite Catalyzed <i>N</i>â€formylation of Amines using CO₂ as the C1 Source. ChemistrySelect, 2018, 3, 10271-10276.	0.7	17

#	Article	IF	Citations
109	Morphology stabilization strategies for small-molecule bulk heterojunction photovoltaics. Journal of Materials Chemistry A, 2017, 5, 17517-17524.	5.2	16
110	Are Organic Semiconductors Viable for Robust, High-Efficiency Artificial Photosynthesis?. ACS Energy Letters, 2020, 5, 1970-1973.	8.8	15
111	Direct photoelectrochemical oxidation of hydroxymethylfurfural on tungsten trioxide photoanodes. RSC Advances, 2021, 11, 198-202.	1.7	15
112	Defect engineered nanostructured LaFeO₃ photoanodes for improved activity in solar water oxidation. Journal of Materials Chemistry A, 2021, 9, 2888-2898.	5.2	13
113	CHAPTER 4. Tandem Photoelectrochemical Cells for Water Splitting. RSC Energy and Environment Series, 0, , 83-108.	0.2	12
114	CuInGaS₂photocathodes treated with SbX₃(Xâ€‰â€‰=â€‰â€‰Cl, I): the effect of the halide on solar water splitting performance. Journal Physics D: Applied Physics, 2017, 50, 044003.	1.3	12
115	Taking lanthanides out of isolation: tuning the optical properties of metalâ€“organic frameworks. Chemical Science, 2020, 11, 4164-4170.	3.7	12
116	Spray Synthesis of CuFeO₂ Photocathodes and <i>In-Operando</i> Assessment of Charge Carrier Recombination. Journal of Physical Chemistry C, 2021, 125, 10883-10890.	1.5	12
117	Multiple Effects Induced by Mo⁶⁺ Doping in BiVO₄ Photoanodes. Solar Rrl, 2022, 6, .	3.1	12
118	TaOxNy Sputtered Photoanodes For Solar Water Splitting. Energy Procedia, 2012, 22, 119-126.	1.8	11
119	Robust Electron Transport Layers via In Situ Cross-Linking of Perylene Diimide and Fullerene for Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 6616-6623.	2.5	11
120	Identifying Reactive Sites and Surface Traps in Chalcopyrite Photocathodes. Angewandte Chemie - International Edition, 2021, 60, 23651-23655.	7.2	11
121	Nanostructured Î±-Fe2O3 Photoanodes. Kluwer International Series in Electronic Materials: Science and Technology, 2012, , 121-156.	0.3	11
122	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. Angewandte Chemie, 2019, 131, 12826-12834.	1.6	10
123	Generalized Synthesis to Produce Transparent Thin Films of Ternary Metal Oxide Photoelectrodes. ChemSusChem, 2020, 13, 3645-3653.	3.6	10
124	Melt-processing of small molecule organic photovoltaics <i>via</i> bulk heterojunction compatibilization. Green Chemistry, 2018, 20, 2218-2224.	4.6	9
125	Hydrogenation of ZnFe2O4 Flat Films: Effects of the Pre-Annealing Temperature on the Photoanodes Efficiency for Water Oxidation. Surfaces, 2020, 3, 93-104.	1.0	9
126	Achieving visible light-driven hydrogen evolution at positive bias with a hybrid copperâ€“iron oxide|TiO2-cobaloxime photocathode. Green Chemistry, 2020, 22, 3141-3149.	4.6	9

#	Article	IF	Citations
127	Engineering the self-assembly of diketopyrrolopyrrole-based molecular semiconductors via an aliphatic linker strategy. Journal of Materials Chemistry A, 2017, 5, 10526-10536.	5.2	8
128	Understanding Surface Recombination Processes Using Intensityâ€Modulated Photovoltage Spectroscopy on Hematite Photoanodes for Solar Water Splitting. Helvetica Chimica Acta, 2020, 103, e2000064.	1.0	8
129	Organic Semiconductors as Photoanodes for Solar-driven Photoelectrochemical Fuel Production. Chimia, 2021, 75, 169.	0.3	8
130	Benzodithiopheneâ€Based Spacers for Layered and Quasiâ€Layered Lead Halide Perovskite Solar Cells. ChemSusChem, 2021, 14, 3001-3009.	3.6	8
131	Effect of molecular weight in diketopyrrolopyrrole-based polymers in transistor and photovoltaic applications. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2245-2253.	2.4	7
132	Catalystâ€Free, Fast, and Tunable Synthesis for Robust Covalent Polymer Network Semiconducting Thin Films. Advanced Functional Materials, 2018, 28, 1706303.	7.8	7
133	Improving Charge Carrier Mobility Estimations When Using Space-Charge-Limited Current Measurements. ACS Energy Letters, 2022, 7, 2102-2104.	8.8	7
134	Autodecomposition Approach for the Low-Temperature Mesostructuring of Nanocrystal Semiconductor Electrodes. Chemistry of Materials, 2015, 27, 6337-6344.	3.2	6
135	Semiconducting alternating multi-block copolymers via a di-functionalized macromonomer approach. Polymer Chemistry, 2017, 8, 824-827.	1.9	6
136	Key factors boosting the performance of planar ZnFe₂O₄ photoanodes for solar water oxidation. Journal of Materials Chemistry A, 2021, 9, 27736-27747.	5.2	6
137	Tuning Napththalenediimide Cations for Incorporation into Ruddlesdenâ€"Popper-Type Hybrid Perovskites. Chemistry of Materials, 0, , .	3.2	6
138	Artificial Photosynthesis with Semiconductorâ€"Liquid Junctions. Chimia, 2015, 69, 30.	0.3	5
139	Bulk Heterojunction Organic Semiconductor Photoanodes: Tuning Energy Levels to Optimize Electron Injection. ACS Applied Materials & Interfaces, 2022, 14, 8191-8198.	4.0	5
140	Advanced Device Architectures and Tandem Devices. , 2016, , 493-512.		3
141	Molecular Strategies for Morphology Control in Semiconducting Polymers for Optoelectronics. Chimia, 2017, 71, 369-375.	0.3	3
142	Chapter 6. Emerging Semiconductor Oxides for Direct Solar Water Splitting. RSC Energy and Environment Series, 2018, , 163-182.	0.2	3
143	Advancing operational stability and performance of organic photoanodes for solar water oxidation. Trends in Chemistry, 2022, 4, 93-95.	4.4	3
144	Energy Selects. ACS Energy Letters, 2019, 4, 2021-2023.	8.8	2

#	ARTICLE	IF	CITATIONS
145	Identifizierung von reaktiven Zentren und OberflÃ¤chenfallen in Chalkopyritâ€Photokathoden. Angewandte Chemie, 2021, 133, 23843-23847.	1.6	2
146	Controlling photo-activity of solution-processed hematite electrodes for solar water splitting. , 2010, , .		1
147	Switchable Photoelectrodes: Robust Hierarchically Structured Biphasic Ambipolar Oxide Photoelectrodes for Lightâ€Driven Chemical Regulation and Switchable Logic Applications (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Ov	11.1	1
148	A Step toward Economically Viable Solar Fuel Production. CheM, 2018, 4, 2490-2492.	5.8	1
149	Effects of surface wettability on (001)-WO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e753" altimg="si81.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math> and (100)-WSe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e761" altimg="si84.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:ms	3.1	1
150	Advancing Materials and Methods for Photoelectrochemical Energy Conversion. Chimia, 2017, 71, 471-474.	0.3	0
151	Organic Semiconductors for Photoelectrochemical Applications. , 0, , .		0
152	Materials for Robust, Inexpensive and High Performance Photoelectrochemical Fuel Production. , 0, , .		0
153	Operando Potential-Sensing at the Semiconductor-Liquid Junctions: Tracking the Surface Energetics and Interfacial Kinetics during Photoelectrosynthetic Reactions. , 0, , .		0
154	Derivative voltammetry: a simple tool to probe reaction selectivity in photoelectrochemical cells. Sustainable Energy and Fuels, 0, , .	2.5	0