

Florian Le Formal

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.

44
papers

8,072
citations

31
h-index

47
g-index

47
ext. papers

8,754
ext. citations

12.1
avg, IF

6.2
L-index

#	Paper	IF	Citations
44	Solar water splitting: progress using hematite (Fe ₂ O ₃) photoelectrodes. <i>ChemSusChem</i> , 2011 , 4, 432-49	8.3	2071
43	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
42	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. <i>Chemical Science</i> , 2011 , 2, 737-743	9.4	675
41	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
40	Influence of plasmonic Au nanoparticles on the photoactivity of Fe ₂ O ₃ electrodes for water splitting. <i>Nano Letters</i> , 2011 , 11, 35-43	11.5	392
39	Back electron-hole recombination in hematite photoanodes for water splitting. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2564-74	16.4	329
38	Controlling Photoactivity in Ultrathin Hematite Films for Solar Water-Splitting. <i>Advanced Functional Materials</i> , 2010 , 20, 1099-1107	15.6	324
37	Dynamics of photogenerated holes in undoped BiVO ₄ photoanodes for solar water oxidation. <i>Chemical Science</i> , 2014 , 5, 2964-2973	9.4	253
36	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	23.8	253
35	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
34	Rate law analysis of water oxidation on a hematite surface. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6629-37	16.4	208
33	Ultrafast charge carrier recombination and trapping in hematite photoanodes under applied bias. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9854-7	16.4	204
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	Examining architectures of photoanode-photovoltaic tandem cells for solar water splitting. <i>Journal of Materials Research</i> , 2010 , 25, 17-24	2.5	157
30	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
29	Photoinduced Absorption Spectroscopy of CoPi on BiVO ₄ : The Function of CoPi during Water Oxidation. <i>Advanced Functional Materials</i> , 2016 , 26, 4951-4960	15.6	135
28	Evaluating Charge Carrier Transport and Surface States in CuFeO ₂ Photocathodes. <i>Chemistry of Materials</i> , 2017 , 29, 4952-4962	9.6	106

27	Efficient suppression of back electron/hole recombination in cobalt phosphate surface-modified undoped bismuth vanadate photoanodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20649-20657	13	101
26	Evaluating spinel ferrites MFe_2O_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
25	A Ga_2O_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
24	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
23	Spinel Structural Disorder Influences Solar-Water-Splitting Performance of $ZnFeO$ Nanorod Photoanodes. <i>Advanced Materials</i> , 2018 , 30, e1801612	24	78
22	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO_2 Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017 , 7, 4896-4903	13.1	76
21	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11537-11543	16.4	76
20	Solid-State Dye-Sensitized Solar Cells using Ordered TiO_2 Nanorods on Transparent Conductive Oxide as Photoanodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3266-3273	3.8	68
19	Enhanced-Light-Harvesting Amphiphilic Ruthenium Dye for Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 1821-1826	15.6	67
18	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. <i>Nature Communications</i> , 2017 , 8, 14280	17.4	66
17	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO_2 (anatase) and phosphate olivines ($LiMnPO_4$; $LiFePO_4$) for electrochemical Li-storage. <i>Journal of Power Sources</i> , 2010 , 195, 5360-5369	8.9	64
16	Rate Law Analysis of Water Oxidation and Hole Scavenging on a $BiVO_4$ Photoanode. <i>ACS Energy Letters</i> , 2016 , 1, 618-623	20.1	54
15	Insights into the interfacial carrier behaviour of copper ferrite ($CuFe_2O_4$) photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1669-1677	13	42
14	Hematite Photoanodes for Solar Water Splitting: A Detailed Spectroelectrochemical Analysis on the pH-Dependent Performance. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6825-6833	6.1	37
13	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
12	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. <i>Energy and Environmental Science</i> , 2016 , 9, 3448-3455	35.4	26
11	Photocurrents from photosystem II in a metal oxide hybrid system: Electron transfer pathways. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016 , 1857, 1497-1505	4.6	26
10	Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis. <i>Chimia</i> , 2015 , 69, 789-798	1.3	25

9	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
8	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
7	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
6	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
5	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
4	Adsorbate-localized states at water-covered (100) SrTiO ₃ surfaces. <i>Applied Physics Letters</i> , 2011 , 98, 012106	3.4	8
3	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
2	Artificial Photosynthesis with Semiconductor-Liquid Junctions. <i>Chimia</i> , 2015 , 69, 30-40	1.3	4
1	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