

# Florian Le Formal

## List of Publications by Year in descending order

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47  
papers

9,377  
citations

126708

33  
h-index

233125

45  
g-index

47  
all docs

47  
docs citations

47  
times ranked

9339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spray Synthesis of $\text{CuFeO}_2$ Photocathodes and <i>In-Operando</i> Assessment of Charge Carrier Recombination. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10883-10890.	1.5	12
2	Influence of Composition on Performance in Metallic Iron-Nickel-Cobalt Ternary Anodes for Alkaline Water Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 12139-12147.	5.5	20
3	Establishing Stability in Organic Semiconductor Photocathodes for Solar Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2020, 142, 7795-7802.	6.6	45
4	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.	2.5	59
5	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.	7.2	27
6	Insights into the interfacial carrier behaviour of copper ferrite ( $\text{CuFe}_2\text{O}_4$ ) photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1669-1677.	5.2	65
7	Evaluating spinel ferrites $\text{MFe}_2\text{O}_4$ (M = Cu, Mg, Zn) as photoanodes for solar water oxidation: prospects and limitations. <i>Sustainable Energy and Fuels</i> , 2018, 2, 103-117.	2.5	119
8	Spinel Structural Disorder Influences Solar Water Splitting Performance of $\text{ZnFe}_2\text{O}_4$ Nanorod Photoanodes. <i>Advanced Materials</i> , 2018, 30, e1801612.	11.1	111
9	Nanocrystalline Boron-Doped Diamond as a Corrosion-Resistant Anode for Water Oxidation via Si Photoelectrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29552-29564.	4.0	23
10	$\text{CuInGaS}_2$ photocathodes treated with $\text{SbX}_3$ (X = Cl, I): the effect of the halide on solar water splitting performance. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 044003.	1.3	12
11	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. <i>Nature Communications</i> , 2017, 8, 14280.	5.8	83
12	Water Oxidation Kinetics of Accumulated Holes on the Surface of a $\text{TiO}_2$ Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017, 7, 4896-4903.	5.5	105
13	Evaluating Charge Carrier Transport and Surface States in $\text{CuFeO}_2$ Photocathodes. <i>Chemistry of Materials</i> , 2017, 29, 4952-4962.	3.2	133
14	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2017, 139, 11537-11543.	6.6	125
15	Formation of Efficient Water Oxidation Electrocatalyst on Gibeon Meteorite and Stainless Steel Electrodes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
16	Spinel Ferrites $\text{MFe}_2\text{O}_4$ (M = Cu, Mg, Zn) As Emerging Photoanodes for Water Oxidation: An in-Depth Analysis of the Photoelectrochemical Properties. <i>ECS Meeting Abstracts</i> , 2017, MA2017-01, 1523-1523.	0.0	1
17	Photoinduced Absorption Spectroscopy of CoPi on $\text{BiVO}_4$ : The Function of CoPi during Water Oxidation. <i>Advanced Functional Materials</i> , 2016, 26, 4951-4960.	7.8	169
18	Robust Hierarchically Structured Biphasic Ambipolar Oxide Photoelectrodes for Light-Driven Chemical Regulation and Switchable Logic Applications. <i>Advanced Materials</i> , 2016, 28, 9308-9312.	11.1	30

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19	Rate Law Analysis of Water Oxidation and Hole Scavenging on a BiVO <sub>4</sub> Photoanode. ACS Energy Letters, 2016, 1, 618-623.	8.8	76
20	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. Energy and Environmental Science, 2016, 9, 3448-3455.	15.6	35
21	Switchable Photoelectrodes: Robust Hierarchically Structured Biphasic Ambipolar Oxide Photoelectrodes for Light-Driven Chemical Regulation and Switchable Logic Applications (Adv. Mater.) Tj ETQq1 10.10784314 rgBT /C	10.7	14
22	A Bottom-Up Approach toward All-Solution-Processed High-Efficiency Cu(In,Ga)S <sub>2</sub> Photocathodes for Solar Water Splitting. Advanced Energy Materials, 2016, 6, 1501949.	10.2	88
23	Photocurrents from photosystem II in a metal oxide hybrid system: Electron transfer pathways. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1497-1505.	0.5	34
24	Challenges towards Economic Fuel Generation from Renewable Electricity: The Need for Efficient Electro-Catalysis. Chimia, 2015, 69, 789.	0.3	35
25	Artificial Photosynthesis with Semiconductor-Liquid Junctions. Chimia, 2015, 69, 30.	0.3	5
26	Rate Law Analysis of Water Oxidation on a Hematite Surface. Journal of the American Chemical Society, 2015, 137, 6629-6637.	6.6	273
27	Efficient suppression of back electron/hole recombination in cobalt phosphate surface-modified undoped bismuth vanadate photoanodes. Journal of Materials Chemistry A, 2015, 3, 20649-20657.	5.2	117
28	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
29	Dynamics of photogenerated holes in undoped BiVO <sub>4</sub> photoanodes for solar water oxidation. Chemical Science, 2014, 5, 2964-2973.	3.7	317
30	Ultrafast Charge Carrier Recombination and Trapping in Hematite Photoanodes under Applied Bias. Journal of the American Chemical Society, 2014, 136, 9854-9857.	6.6	238
31	Back Electron-Hole Recombination in Hematite Photoanodes for Water Splitting. Journal of the American Chemical Society, 2014, 136, 2564-2574.	6.6	393
32	Solid-State Dye-Sensitized Solar Cells using Ordered TiO <sub>2</sub> Nanorods on Transparent Conductive Oxide as Photoanodes. Journal of Physical Chemistry C, 2012, 116, 3266-3273.	1.5	75
33	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
34	A Ga <sub>2</sub> O <sub>3</sub> underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. Faraday Discussions, 2012, 155, 223-232.	1.6	95
35	Solar hydrogen production with semiconductor metal oxides: new directions in experiment and theory. Physical Chemistry Chemical Physics, 2012, 14, 49-70.	1.3	198
36	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

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37	Influence of Plasmonic Au Nanoparticles on the Photoactivity of Fe <sub>2</sub> O <sub>3</sub> Electrodes for Water Splitting. Nano Letters, 2011, 11, 35-43.	4.5	428
38	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. Chemical Science, 2011, 2, 737-743.	3.7	763
39	Adsorbate-localized states at water-covered (100) SrTiO <sub>3</sub> surfaces. Applied Physics Letters, 2011, 98, 012106.	1.5	8
40	Solar Water Splitting: Progress Using Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Photoelectrodes. ChemSusChem, 2011, 4, 432-449.	3.6	2,334
41	Controlling Photoactivity in Ultrathin Hematite Films for Solar Water Splitting. Advanced Functional Materials, 2010, 20, 1099-1107.	7.8	357
42	Enhanced Light Harvesting Amphiphilic Ruthenium Dye for Efficient Solid State Dye Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 1821-1826.	7.8	68
43	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO <sub>2</sub> (anatase) and phosphate olivines (LiMnPO <sub>4</sub> ; LiFePO <sub>4</sub> ) for electrochemical Li-storage. Journal of Power Sources, 2010, 195, 5360-5369.	4.0	68
44	Examining architectures of photoanode photovoltaic tandem cells for solar water splitting. Journal of Materials Research, 2010, 25, 17-24.	1.2	166
45	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
46	WO <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> Photoanodes for Water Splitting: A Host Scaffold, Guest Absorber Approach. Chemistry of Materials, 2009, 21, 2862-2867.	3.2	455
47	Operando Potential-Sensing at the Semiconductor-Liquid Junctions: Tracking the Surface Energetics and Interfacial Kinetics during Photoelectrosynthetic Reactions. , 0, , .		0