

# Laia Franc s Forcada

## List of Publications by Year in descending order

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65  
papers

3,461  
citations

147566

31  
h-index

182168

51  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4660  
citing authors

#	ARTICLE	IF	CITATIONS
1	UVâ€“Vis operando spectroelectrochemistry for (photo)electrocatalysis: Principles and guidelines. <i>Current Opinion in Electrochemistry</i> , 2022, 35, 101098.	2.5	13
2	Charge accumulation kinetics in multi-redox molecular catalysts immobilised on TiO <sub>2</sub> . <i>Chemical Science</i> , 2021, 12, 946-959.	3.7	12
3	Light-Driven Hydrogen Evolution Assisted by Covalent Organic Frameworks. <i>Catalysts</i> , 2021, 11, 754.	1.6	14
4	The effect of nanoparticulate PdO co-catalysts on the faradaic and light conversion efficiency of WO <sub>3</sub> photoanodes for water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1285-1291.	1.3	6
5	Water oxidation kinetics of nanoporous BiVO <sub>4</sub> photoanodes functionalised with nickel/iron oxyhydroxide electrocatalysts. <i>Chemical Science</i> , 2021, 12, 7442-7452.	3.7	32
6	Multihole water oxidation catalysis on haematite photoanodes revealed by operando spectroelectrochemistry and DFT. <i>Nature Chemistry</i> , 2020, 12, 82-89.	6.6	189
7	Separating bulk and surface processes in NiO <sub>x</sub> electrocatalysts for water oxidation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5024-5030.	2.5	26
8	Tracking Charge Transfer to Residual Metal Clusters in Conjugated Polymers for Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 14574-14587.	6.6	118
9	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7285-7290.	2.1	34
10	Reply to: Questioning the rate law in the analysis of water oxidation catalysis on haematite photoanodes. <i>Nature Chemistry</i> , 2020, 12, 1099-1101.	6.6	9
11	Determining the role of oxygen vacancies in the photoelectrocatalytic performance of WO <sub>3</sub> for water oxidation. <i>Chemical Science</i> , 2020, 11, 2907-2914.	3.7	126
12	Charge Separation, Band-Bending, and Recombination in WO <sub>3</sub> Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5395-5401.	2.1	44
13	Porous boron nitride for combined CO <sub>2</sub> capture and photoreduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23931-23940.	5.2	47
14	Impact of Oxygen Vacancy Occupancy on Charge Carrier Dynamics in BiVO <sub>4</sub> Photoanodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 18791-18798.	6.6	147
15	Spectroelectrochemical study of water oxidation on nickel and iron oxyhydroxide electrocatalysts. <i>Nature Communications</i> , 2019, 10, 5208.	5.8	118
16	WO <sub>3</sub> /BiVO <sub>4</sub> : impact of charge separation at the timescale of water oxidation. <i>Chemical Science</i> , 2019, 10, 2643-2652.	3.7	59
17	Suppression of Recombination Losses in Polymer:Nonfullerene Acceptor Organic Solar Cells due to Aggregation Dependence of Acceptor Electron Affinity. <i>Advanced Energy Materials</i> , 2019, 9, 1901254.	10.2	54
18	Effect of oxygen deficiency on the excited state kinetics of WO <sub>3</sub> and implications for photocatalysis. <i>Chemical Science</i> , 2019, 10, 5667-5677.	3.7	97

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19	Toward Improved Environmental Stability of Polymer:Fullerene and Polymer:Nonfullerene Organic Solar Cells: A Common Energetic Origin of Light- and Oxygen-Induced Degradation. ACS Energy Letters, 2019, 4, 846-852.	8.8	71
20	Unraveling Charge Transfer in CoFe Prussian Blue Modified BiVO <sub>4</sub> Photoanodes. ACS Energy Letters, 2019, 4, 337-342.	8.8	61
21	Chapter 5. Rate Law Analysis of Water Splitting Photoelectrodes. RSC Energy and Environment Series, 2018, , 128-162.	0.2	8
22	Water Oxidation and Electron Extraction Kinetics in Nanostructured Tungsten Trioxide Photoanodes. Journal of the American Chemical Society, 2018, 140, 16168-16177.	6.6	105
23	The Effect of Residual Palladium Catalyst Contamination on the Photocatalytic Hydrogen Evolution Activity of Conjugated Polymers. Advanced Energy Materials, 2018, 8, 1802181.	10.2	138
24	Tuning Thermally Treated Graphitic Carbon Nitride for H <sub>2</sub> Evolution and CO <sub>2</sub> Photoreduction: The Effects of Material Properties and Mid-Gap States. ACS Applied Energy Materials, 2018, 1, 6524-6534.	2.5	33
25	Rational design of a neutral pH functional and stable organic photocathode. Chemical Communications, 2018, 54, 5732-5735.	2.2	24
26	Behavior of Ru <sup>II</sup> Water Oxidation Catalysts in Low Oxidation States. Chemistry - A European Journal, 2018, 24, 12838-12847.	1.7	27
27	Backbone Immobilization of the Bis(bipyridyl)pyrazolate Diruthenium Catalyst for Electrochemical Water Oxidation. ACS Catalysis, 2017, 7, 2116-2125.	5.5	22
28	Mononuclear ruthenium compounds bearing N-donor and N-heterocyclic carbene ligands: structure and oxidative catalysis. Dalton Transactions, 2017, 46, 2829-2843.	1.6	6
29	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. Nature Communications, 2017, 8, 14280.	5.8	83
30	Optimizing the Activity of Nanoneedle Structured WO <sub>3</sub> Photoanodes for Solar Water Splitting: Direct Synthesis via Chemical Vapor Deposition. Journal of Physical Chemistry C, 2017, 121, 5983-5993.	1.5	71
31	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO <sub>2</sub> Photoanode: A Rate Law Analysis. ACS Catalysis, 2017, 7, 4896-4903.	5.5	105
32	Kinetic Analysis of an Efficient Molecular Light-Driven Water Oxidation System. ACS Catalysis, 2017, 7, 5142-5150.	5.5	35
33	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. Journal of the American Chemical Society, 2017, 139, 11537-11543.	6.6	125
34	Ru <sup>II</sup> -bis(pyridine)pyrazolate (bpp)-Based Water Oxidation Catalysts Anchored on TiO <sub>2</sub> : The Importance of the Nature and Position of the Anchoring Group. Chemistry - A European Journal, 2016, 22, 5261-5268.	1.7	22
35	Synthesis and Isomeric Analysis of Ru <sup>II</sup> Complexes Bearing Pentadentate Scaffolds. Inorganic Chemistry, 2016, 55, 11216-11229.	1.9	17
36	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

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37	Structural and Spectroscopic Characterization of Reaction Intermediates Involved in a Dinuclear Coâ€“Hbpp Water Oxidation Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 15291-15294.	6.6	49
38	Water oxidation catalysis with ligand substituted Ruâ€“bpp type complexes. <i>Catalysis Science and Technology</i> , 2016, 6, 5088-5101.	2.1	23
39	Efficient Lightâ€“Driven Water Oxidation Catalysis by Dinuclear Ruthenium Complexes. <i>ChemSusChem</i> , 2015, 8, 3688-3696.	3.6	37
40	Highly Efficient Binuclear Ruthenium Catalyst for Water Oxidation. <i>ChemSusChem</i> , 2015, 8, 1697-1702.	3.6	40
41	Powerful Bis-facially Pyrazolate-Bridged Dinuclear Ruthenium Epoxidation Catalyst. <i>Inorganic Chemistry</i> , 2015, 54, 6782-6791.	1.9	11
42	Behavior of the Ru-bda Water Oxidation Catalyst Covalently Anchored on Glassy Carbon Electrodes. <i>ACS Catalysis</i> , 2015, 5, 3422-3429.	5.5	78
43	Molecular artificial photosynthesis. <i>Chemical Society Reviews</i> , 2014, 43, 7501-7519.	18.7	769
44	Characterization and performance of electrostatically adsorbed Ruâ€“Hbpp water oxidation catalysts. <i>Catalysis Science and Technology</i> , 2014, 4, 190-199.	2.1	9
45	Synthesis, Characterization, and Linkage Isomerism in Mononuclear Ruthenium Complexes Containing the New Pyrazolate-Based Ligand Hpbl. <i>Inorganic Chemistry</i> , 2014, 53, 8025-8035.	1.9	8
46	Dinuclear Ruthenium Complexes Containing the Hpbl Ligand: Synthesis, Characterization, Linkage Isomerism, and Epoxidation Catalysis. <i>Inorganic Chemistry</i> , 2014, 53, 10394-10402.	1.9	10
47	Structure and Electronic Configurations of the Intermediates of Water Oxidation in a Highly Active and Robust Molecular Ruthenium Catalyst. <i>Biophysical Journal</i> , 2013, 104, 531a.	0.2	0
48	Synthesis, Structure, and Reactivity of New Tetranuclear Ru-Hbpp-Based Water-Oxidation Catalysts. <i>Inorganic Chemistry</i> , 2011, 50, 2771-2781.	1.9	61
49	A Ruâ€“Hbppâ€“Based Waterâ€“Oxidation Catalyst Anchored on Rutile TiO <sub>2</sub> . <i>ChemSusChem</i> , 2009, 2, 321-329.	3.6	40
50	Ru Complexes That Can Catalytically Oxidize Water to Molecular Dioxygen. <i>Inorganic Chemistry</i> , 2008, 47, 1824-1834.	1.9	139
51	Investigating the Influence of Nanostructuring on Photoanode Performance. , 0, , .		0
52	Spectroelectrochemical Study of the Catalytic Species on the Ni(Fe)OOH and FeOOH Electrocatalysts. , 0, , .		0
53	Charge Carrier Dynamics in Nanostructured Tungsten Trioxide for Solar Driven Water Oxidation. , 0, , .		0
54	Porous Boron Oxynitride for Combined CO <sub>2</sub> Capture and Photoreduction. , 0, , .		0

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55	Using Transient Spectroscopic Techniques to Investigate the Effect of Catalyst Overlayers and Morphology on the Water Oxidation Performance of Bismuth Vanadate. , 0, , .		0
56	Spectroscopic Analysis of NiOx Catalysts for Water Oxidation. , 0, , .		0
57	Investigating the Enhanced Performance of WO3 Photoanodes from the Addition of Pd Co-catalysts. , 0, , .		0
58	Alcohol oxidation using $\gamma$ -Fe2O3 and BiVO4: mechanistic and kinetic insights. , 0, , .		0
59	Using Transient Spectroscopic Techniques to Investigate the Effect of Catalyst Overlayers and Morphology on the Water Oxidation Performance of Bismuth Vanadate. , 0, , .		0
60	Spectroscopic Analysis of NiOx Catalysts for Water Oxidation. , 0, , .		0
61	Porous Boron Oxynitride for Combined CO2 Capture and Photoreduction. , 0, , .		0
62	Charge Carrier Dynamics in Nanostructured Tungsten Trioxide for Solar Driven Water Oxidation. , 0, , .		0
63	Spectroelectrochemical Study of the Catalytic Species on the Ni(Fe)OOH and FeOOH Electrocatalysts. , 0, , .		0
64	Investigating the Influence of Nanostructuring on Photoanode Performance. , 0, , .		0
65	Investigating the Enhanced Performance of WO3 Photoanodes from the Addition of Pd Co-catalysts. , 0, , .		0