Ernest Pastor

List of Publications by Year
in descending order

31	3,333	236925 25	454955 30
papers	citations	h-index	g-index

34	34	34	4598
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structures of the intermediates of Kokâ€™s photosynthetic water oxidation clock. Nature, 2018, 563, 421-425.	27.8	386
2	Structure of photosystem II and substrate binding at room temperature. Nature, 2016, 540, 453-457.	27.8	323
3	Dye-sensitised semiconductors modified with molecular catalysts for light-driven H₂ production. Chemical Society Reviews, 2016, 45, 9-23.	38.1	298
4	Rate Law Analysis of Water Oxidation on a Hematite Surface. Journal of the American Chemical Society, 2015, 137, 6629-6637.	13.7	273
5	Multihole water oxidation catalysis on haematite photoanodes revealed by operando spectroelectrochemistry and DFT. Nature Chemistry, 2020, 12, 82-89.	13.6	189
6	Mechanistic Evidence for Ligand-Centered Electrocatalytic Oxygen Reduction with the Conductive MOF Ni₃(hexaiminotriphenylene)₂. ACS Catalysis, 2017, 7, 7726-7731.	11.2	164
7	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. Nature Methods, 2017, 14, 443-449.	19.0	150
8	Impact of Oxygen Vacancy Occupancy on Charge Carrier Dynamics in BiVO₄ Photoanodes. Journal of the American Chemical Society, 2019, 141, 18791-18798.	13.7	147
9	Improving the Photocatalytic Reduction of CO₂ to CO through Immobilisation of a Molecular Re Catalyst on TiO₂. Chemistry - A European Journal, 2015, 21, 3746-3754.	3.3	141
10	Electronic defects in metal oxide photocatalysts. Nature Reviews Materials, 2022, 7, 503-521.	48.7	129
11	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. Journal of the American Chemical Society, 2017, 139, 11537-11543.	13.7	125
12	Spectroelectrochemical study of water oxidation on nickel and iron oxyhydroxide electrocatalysts. Nature Communications, 2019, 10, 5208.	12.8	118
13	Evaluation of Surface State Mediated Charge Recombination in Anatase and Rutile TiO₂. Journal of Physical Chemistry Letters, 2016, 7, 3742-3746.	4.6	107
14	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO₂ Photoanode: A Rate Law Analysis. ACS Catalysis, 2017, 7, 4896-4903.	11.2	105
15	Effect of oxygen deficiency on the excited state kinetics of WO₃ and implications for photocatalysis. Chemical Science, 2019, 10, 5667-5677.	7.4	97
16	In situ observation of picosecond polaron self-localisation in Î±-Fe2O3 photoelectrochemical cells. Nature Communications, 2019, 10, 3962.	12.8	93
17	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. Nature Communications, 2017, 8, 14280.	12.8	83
18	Rate Law Analysis of Water Oxidation and Hole Scavenging on a BiVO₄ Photoanode. ACS Energy Letters, 2016, 1, 618-623.	17.4	76

#	Article	IF	Citations
19	Interfacial charge separation in Cu₂O/RuO_x as a visible light driven CO₂ reduction catalyst. Physical Chemistry Chemical Physics, 2014, 16, 5922-5926.	2.8	55
20	Unravelling the pH-dependence of a molecular photocatalytic system for hydrogen production. Chemical Science, 2015, 6, 4855-4859.	7.4	50
21	Stimulated X-Ray Emission Spectroscopy in Transition Metal Complexes. Physical Review Letters, 2018, 120, 133203.	7.8	48
22	Charge Separation, Band-Bending, and Recombination in WO₃ Photoanodes. Journal of Physical Chemistry Letters, 2019, 10, 5395-5401.	4.6	44
23	Kinetic Analysis of an Efficient Molecular Light-Driven Water Oxidation System. ACS Catalysis, 2017, 7, 5142-5150.	11.2	35
24	The binding energy and dynamics of charge-transfer states in organic photovoltaics with low driving force for charge separation. Journal of Chemical Physics, 2019, 150, 104704.	3.0	32
25	Water oxidation kinetics of nanoporous BiVO₄ photoanodes functionalised with nickel/iron oxyhydroxide electrocatalysts. Chemical Science, 2021, 12, 7442-7452.	7.4	32
26	UVâ€“Vis operando spectroelectrochemistry for (photo)electrocatalysis: Principles and guidelines. Current Opinion in Electrochemistry, 2022, 35, 101098.	4.8	13
27	Chapter 5. Rate Law Analysis of Water Splitting Photoelectrodes. RSC Energy and Environment Series, 2018, , 128-162.	0.5	8
28	Synthetic approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 242-281.	3.2	5
29	Nonthermal breaking of magnetic order via photogenerated spin defects in the spin-orbit coupled insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	3.2	4
30	Ultrafast Electron Localisation and Delocalisation in Photoelectrochemical Cells. Towards Control of Excited-State Transport. , 0, , .		0
31	Ultrafast Electron Localisation and Delocalisation in Photoelectrochemical Cells. Towards Control of Excited-State Transport. , 0, , .		0