

# Ioannis Spanos

## List of Publications by Year in descending order

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27  
papers

1,037  
citations

567281

15  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1569  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Selective Electro-Oxidation of Glycerol to Dihydroxyacetone on Platinum in the Presence of Bismuth. ACS Catalysis, 2012, 2, 759-764.	11.2	259
2	Comparative degradation study of carbon supported proton exchange membrane fuel cell electrocatalysts – The influence of the platinum to carbon ratio on the degradation rate. Journal of Power Sources, 2014, 261, 14-22.	7.8	163
3	Standardized Benchmarking of Water Splitting Catalysts in a Combined Electrochemical Flow Cell/Inductively Coupled Plasma–Optical Emission Spectrometry (ICP-OES) Setup. ACS Catalysis, 2017, 7, 3768-3778.	11.2	73
4	Facile Protocol for Alkaline Electrolyte Purification and Its Influence on a Ni–Co Oxide Catalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2019, 9, 8165-8170.	11.2	59
5	On the influence of the Pt to carbon ratio on the degradation of high surface area carbon supported PEM fuel cell electrocatalysts. Electrochemistry Communications, 2013, 34, 153-156.	4.7	57
6	Role of Nanoscale Inhomogeneities in Co <sub>2</sub> FeO <sub>4</sub> Catalysts during the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2022, 144, 12007-12019.	13.7	52
7	The Effect of Iron Impurities on Transition Metal Catalysts for the Oxygen Evolution Reaction in Alkaline Environment: Activity Mediators or Active Sites?. Catalysis Letters, 2021, 151, 1843-1856.	2.6	46
8	Activity and Stability of Oxides During Oxygen Evolution Reaction – From Mechanistic Controversies Toward Relevant Electrocatalytic Descriptors. Frontiers in Energy Research, 2021, 8, .	2.3	45
9	2D Metal Organic Framework–Graphitic Carbon Nanocomposites as Precursors for High-Performance O <sub>2</sub> Evolution Electrocatalysts. Advanced Energy Materials, 2018, 8, 1802404.	19.5	43
10	Preparation of Solid Solution and Layered IrO <sub>x</sub> –Ni(OH) <sub>2</sub> Oxygen Evolution Catalysts: Toward Optimizing Iridium Efficiency for OER. ACS Catalysis, 2020, 10, 14640-14648.	11.2	40
11	Investigating the activity enhancement on Pt <sub>x</sub> Co <sub>1-x</sub> alloys induced by a combined strain and ligand effect. Journal of Power Sources, 2014, 245, 908-914.	7.8	27
12	Effect of Base on the Facile Hydrothermal Preparation of Highly Active IrO <sub>x</sub> Oxygen Evolution Catalysts. ACS Applied Energy Materials, 2020, 3, 800-809.	5.1	25
13	How to minimise destabilising effect of gas bubbles on water splitting electrocatalysts?. Current Opinion in Electrochemistry, 2021, 30, 100797.	4.8	24
14	From single crystal model catalysts to systematic studies of supported nanoparticles. Surface Science, 2015, 631, 278-284.	1.9	23
15	Dynamic carbon surface chemistry: Revealing the role of carbon in electrolytic water oxidation. Journal of Energy Chemistry, 2020, 47, 155-159.	12.9	16
16	Poly(ionic liquid) binders as ionic conductors and polymer electrolyte interfaces for enhanced electrochemical performance of water splitting electrodes. Sustainable Energy and Fuels, 2018, 2, 1446-1451.	4.9	15
17	Al <sub>2</sub> Pt for Oxygen Evolution in Water Splitting: A Strategy for Creating Multifunctionality in Electrocatalysis. Angewandte Chemie - International Edition, 2020, 59, 16770-16776.	13.8	15
18	Structural disordering of de-alloyed Pt bimetallic nanocatalysts: the effect on oxygen reduction reaction activity and stability. Physical Chemistry Chemical Physics, 2015, 17, 28044-28053.	2.8	14

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19	Expanding the frontiers of hydrogen evolution electrocatalysis—searching for the origins of electrocatalytic activity in the anomalies of the conventional model. <i>Electrochimica Acta</i> , 2021, 388, 138583.	5.2	8
20	Pt <sub>x</sub> Co <sub>1-x</sub> alloy NPs prepared by colloidal tool-box synthesis: The effect of de-alloying on the oxygen reduction reaction activity. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9143-9148.	7.1	7
21	3D Printing of Functional Metal and Dielectric Composite Meta-Atoms. <i>Small</i> , 2022, 18, e2105368.	10.0	7
22	Electrocatalysis Beyond 2020: How to Tune the Preexponential Frequency Factor. <i>ChemElectroChem</i> , 2022, 9, .	3.4	5
23	Perspective on experimental evaluation of adsorption energies at solid/liquid interfaces. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 33-42.	2.5	4
24	Electrochemical evaluation of the de-/re-activation of oxygen evolving Ir oxide. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14579-14591.	2.8	4
25	MAXNET Energy — Focusing Research in Chemical Energy Conversion on the Electrocatalytic Oxygen Evolution. <i>Green</i> , 2015, 5, .	0.4	3
26	Atomically dispersed vanadium oxides on multiwalled carbon nanotubes via atomic layer deposition: A multiparameter optimization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, .	2.1	3
27	Al 2 Pt f1/4r die Sauerstoffentwicklungsreaktion bei der Wasserspaltung: eine Strategie zur Erzeugung von Multifunktionalität in der Elektrokatalyse. <i>Angewandte Chemie</i> , 2020, 132, 16913.	2.0	0