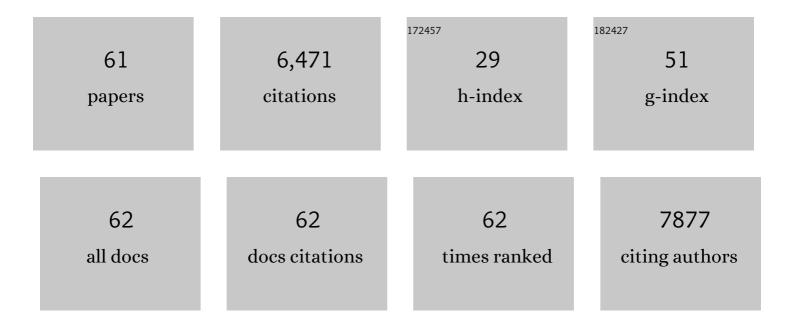
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electrochemical Surface Area Quantification, CO ₂ Reduction Performance, and Stability Studies of Unsupported Three-Dimensional Au Aerogels versus Carbon-Supported Au Nanoparticles. ACS Materials Au, 2022, 2, 278-292.	6.0	18
2	Timeâ€Resolved Potentialâ€Induced Changes in Fe/N/C atalysts Studied by In Situ Modulation Excitation Xâ€Ray Absorption Spectroscopy. Advanced Energy Materials, 2022, 12, .	19.5	33
3	Potential Pitfalls in the <i>Operando</i> XAS Study of Oxygen Evolution Electrocatalysts. ACS Energy Letters, 2022, 7, 1735-1740.	17.4	21
4	Green chemistry and first-principles theory enhance catalysis: synthesis and 6-fold catalytic activity increase of sub-5 nm Pd and Pt@Pd nanocubes. Nanoscale, 2022, 14, 10155-10168.	5.6	4
5	Effect of Low and Sub-Freezing Temperature on the PEFC Performance of Unsupported Pt-Ni Aerogel Cathode Catalyst Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1461-1461.	0.0	1
6	Electrochemical Surface Area Quantification, CO ₂ Reduction Performance and Stability Studies of Au and Au-Cu Aerogels. ECS Meeting Abstracts, 2022, MA2022-01, 2087-2087.	0.0	0
7	Interplay between Surface-Adsorbed CO and Bulk Pd-Hydride at CO ₂ Electroreduction Conditions. ECS Meeting Abstracts, 2022, MA2022-01, 2095-2095.	0.0	0
8	Oxygen Evolution Reaction on Ir-Oxide Based Materials Studied By Modulation Excitation X-Ray Absorption Spectroscopy. ECS Meeting Abstracts, 2022, MA2022-01, 2075-2075.	0.0	0
9	CO ₂ Electroreduction on Unsupported PdPt Aerogels: Effects of Alloying and Surface Composition on Product Selectivity. ACS Applied Energy Materials, 2022, 5, 8460-8471.	5.1	16
10	Effect of Catalyst Aggregate Size on the Mass Transport Properties of Non-Noble Metal Catalyst Layers in PEMFC Cathodes. ECS Meeting Abstracts, 2022, MA2022-01, 1460-1460.	0.0	0
11	Effect of Cobalt Speciation and the Graphitization of the Carbon Matrix on the CO ₂ Electroreduction Activity of Co/N-Doped Carbon Materials. ACS Applied Materials & Interfaces, 2021, 13, 15122-15131.	8.0	13
12	Potentialâ€Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ Xâ€ray Emission Spectroscopy. Angewandte Chemie, 2021, 133, 11813-11818.	2.0	5
13	Potentialâ€Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ Xâ€ray Emission Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 11707-11712.	13.8	36
14	An Online Gas Chromatography Cell Setup for Accurate CO ₂ -Electroreduction Product Quantification. Journal of the Electrochemical Society, 2021, 168, 064504.	2.9	12
15	⁵⁷ Fe-Enrichment effect on the composition and performance of Fe-based O ₂ -reduction electrocatalysts. Physical Chemistry Chemical Physics, 2021, 23, 9147-9157.	2.8	10
16	Electrochemical Surface Area Quantification, CO2 Reduction Performance and Stability Studies of Au and Au-Cu Aerogels. ECS Meeting Abstracts, 2021, MA2021-02, 830-830.	0.0	0
17	Agglomerate Size Effect on the PEMFC Performance of a Non-Noble Metal Oxygen Reduction Catalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1142-1142.	0.0	0
18	Electrochemical CO2 Reduction to CO in Forward-Bias Bipolar Membrane Co-Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-02, 818-818.	0.0	0

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19	X-Ray Absorption Spectroscopy Studies of Ir-Oxide Based Oxygen Evolution Catalysts Revisited. ECS Meeting Abstracts, 2021, MA2021-02, 1932-1932.	0.0	1
20	Low Temperature PEFC Performance of Unsupported Pt-Ni Aerogel Cathode Catalyst Layers. ECS Meeting Abstracts, 2021, MA2021-02, 1299-1299.	0.0	1
21	CO2 Electroreduction on Unsupported Pdpt Aerogels: Effects of Alloying and Surface Composition. ECS Meeting Abstracts, 2021, MA2021-02, 828-828.	0.0	Ο
22	Disclosing Pt-Bimetallic Alloy Nanoparticle Surface Lattice Distortion with Electrochemical Probes. ACS Energy Letters, 2020, 5, 162-169.	17.4	35
23	Co-electrolysis of CO2 and H2O: From electrode reactions to cell-level development. Current Opinion in Electrochemistry, 2020, 23, 89-95.	4.8	32
24	On the Oxidation State of Cu ₂ O upon Electrochemical CO ₂ Reduction: An XPS Study. ChemPhysChem, 2019, 20, 3120-3127.	2.1	40
25	<i>Operando</i> X-ray characterization of high surface area iridium oxides to decouple their activity losses for the oxygen evolution reaction. Energy and Environmental Science, 2019, 12, 3038-3052.	30.8	90
26	Fe-Based O ₂ -Reduction Catalysts Synthesized Using Na ₂ CO ₃ as a Pore-Inducing Agent. ACS Applied Energy Materials, 2019, 2, 1469-1479.	5.1	16
27	Structure Sensitivity in Hydrogenation Reactions on Pt/C in Aqueousâ€phase. ChemCatChem, 2019, 11, 575-582.	3.7	47
28	Unsupported Pt ₃ Ni Aerogels as Corrosion Resistant PEFC Anode Catalysts under Gross Fuel Starvation Conditions. Journal of the Electrochemical Society, 2018, 165, F3001-F3006.	2.9	19
29	Tomographic Analysis and Modeling of Polymer Electrolyte Fuel Cell Unsupported Catalyst Layers. Journal of the Electrochemical Society, 2018, 165, F7-F16.	2.9	15
30	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. Nature Materials, 2018, 17, 827-833.	27.5	344
31	Combining SAXS and XAS To Study the <i>Operando</i> Degradation of Carbon-Supported Pt-Nanoparticle Fuel Cell Catalysts. ACS Catalysis, 2018, 8, 7000-7015.	11.2	58
32	Effect of Acid Washing on the Oxygen Reduction Reaction Activity of Pt-Cu Aerogel Catalysts. Electrochimica Acta, 2017, 233, 210-217.	5.2	24
33	Numerical Partitioning Model for the Koutecký-Levich Analysis of Electrochemical Flow Cells with a Combined Channel/Wall-Jet Geometry. Journal of the Electrochemical Society, 2017, 164, E3448-E3456.	2.9	7
34	State-of-the-art Nanofabrication in Catalysis. Chimia, 2017, 71, 160-169.	0.6	7
35	Unsupported Ptâ€Ni Aerogels with Enhanced High Current Performance and Durability in Fuel Cell Cathodes. Angewandte Chemie, 2017, 129, 10847-10850.	2.0	15
36	Unsupported Ptâ€Ni Aerogels with Enhanced High Current Performance and Durability in Fuel Cell Cathodes. Angewandte Chemie - International Edition, 2017, 56, 10707-10710.	13.8	65

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37	Nanostructuring Noble Metals as Unsupported Electrocatalysts for Polymer Electrolyte Fuel Cells. Advanced Energy Materials, 2017, 7, 1700548.	19.5	76
38	Durability of Unsupported Pt-Ni Aerogels in PEFC Cathodes. Journal of the Electrochemical Society, 2017, 164, F1136-F1141.	2.9	23
39	Pt-Ni Aerogels as Unsupported Electrocatalysts for the Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2016, 163, F998-F1003.	2.9	74
40	Interfacial effects on the catalysis of the hydrogen evolution, oxygen evolution and CO2-reduction reactions for (co-)electrolyzer development. Nano Energy, 2016, 29, 4-28.	16.0	104
41	Aqueous phase electrocatalysis and thermal catalysis for the hydrogenation of phenol at mild conditions. Applied Catalysis B: Environmental, 2016, 182, 236-246.	20.2	103
42	Electrochemical COâ,, Reduction – A Critical View on Fundamentals, Materials and Applications. Chimia, 2015, 69, 769.	0.6	130
43	Reactivity of the Ionic Liquid Pyr ₁₄ TFSI with Superoxide Radicals Generated from KO ₂ or by Contact of O ₂ with Li ₇ Ti ₅ O ₁₂ . Journal of the Electrochemical Society, 2015, 162, A905-A914.	2.9	34
44	Bulk-Palladium and Palladium-on-Gold Electrocatalysts for the Oxidation of Hydrogen in Alkaline Electrolyte. Journal of the Electrochemical Society, 2015, 162, F178-F189.	2.9	80
45	(Invited) Hydrogen Oxidation and Evolution Reaction (HOR/HER) on Pt Electrodes in Acid vs. Alkaline Electrolytes: Mechanism, Activity and Particle Size Effects. ECS Transactions, 2014, 64, 1069-1080.	0.5	76
46	Kinetics of the Hydrogen Oxidation/Evolution Reaction on Polycrystalline Platinum in Alkaline Electrolyte Reaction Order with Respect to Hydrogen Pressure. Journal of the Electrochemical Society, 2014, 161, F1448-F1457.	2.9	213
47	New insights into the electrochemical hydrogen oxidation and evolution reaction mechanism. Energy and Environmental Science, 2014, 7, 2255-2260.	30.8	1,220
48	Nanosized Carbon‣upported Manganese Oxide Phases as Lithium–Oxygen Battery Cathode Catalysts. ChemCatChem, 2013, 5, 3358-3373.	3.7	20
49	Oxygen reduction activities compared in rotating-disk electrode and proton exchange membrane fuel cells for highly active FeNC catalysts. Electrochimica Acta, 2013, 87, 619-628.	5.2	114
50	Comparing Hydrogen Oxidation and Evolution Reaction Kinetics on Polycrystalline Platinum in 0.1 M and 1 M KOH. ECS Transactions, 2013, 50, 2163-2174.	0.5	55
51	Stability of Electrolyte Solutions for Non-Aqueous Li-O2 Cells and Effect of Impurities On Cell Cycling Behavior. ECS Meeting Abstracts, 2013, , .	0.0	0
52	Binuclear rhenium(i) complexes for the photocatalytic reduction of CO2. Dalton Transactions, 2012, 41, 5026.	3.3	80
53	Structure of the catalytic sites in Fe/N/C-catalysts for O2-reduction in PEM fuel cells. Physical Chemistry Chemical Physics, 2012, 14, 11673.	2.8	622
54	Using Rotating Ring Disc Electrode Voltammetry to Quantify the Superoxide Radical Stability of Aprotic Li–Air Battery Electrolytes. Journal of Physical Chemistry C, 2012, 116, 19084-19094.	3.1	160

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55	Unveiling N-Protonation and Anion-Binding Effects on Fe/N/C Catalysts for O ₂ Reduction in Proton-Exchange-Membrane Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 16087-16097.	3.1	300
56	Iron-based cathode catalyst with enhanced power density in polymer electrolyte membrane fuel cells. Nature Communications, 2011, 2, 416.	12.8	1,262
57	Enhancing the Performance of Non-noble Metal Catalysts for the Reduction of O2 in PEM Fuel Cells: is the Adsorption of Iron the Limiting Factor for Increasing the Site Density of the Catalysts?. ECS Transactions, 2009, 16, 431-441.	0.5	0
58	Electrochemical Evidence of Two Types of Active Sites for Oxygen Reduction in Fe-based Catalysts. ECS Transactions, 2009, 25, 117-128.	0.5	20
59	Cross-Laboratory Experimental Study of Non-Noble-Metal Electrocatalysts for the Oxygen Reduction Reaction. ACS Applied Materials & Amp; Interfaces, 2009, 1, 1623-1639.	8.0	655
60	Metal-Precursor Adsorption Effects on Fe-Based Catalysts for Oxygen Reduction in PEM Fuel Cells. Journal of the Electrochemical Society, 2009, 156, B593.	2.9	11
61	Step-by-Step Synthesis of Non-Noble Metal Electrocatalysts for O2Reduction under Proton Exchange Membrane Fuel Cell Conditions. Journal of Physical Chemistry C, 2007, 111, 19033-19042.	3.1	54