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List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Catalysts by pyrolysis: Direct observation of transformations during re-pyrolysis of transition metal-nitrogen-carbon materials leading to state-of-the-art platinum group metal-free electrocatalyst. Materials Today, 2022, 53, 58-70.	8.3	23
2	Mitigation of Carbon Crossover in CO ₂ Electrolysis by Use of Bipolar Membranes. Journal of the Electrochemical Society, 2022, 169, 034508.	1.3	14
3	Engineering catalytic dephosphorylation reaction for endotoxin inactivation. Nano Today, 2022, 44, 101456.	6.2	14
4	Steering Cu-Based CO ₂ RR Electrocatalysts' Selectivity: Effect of Hydroxyapatite Acid/Base Moieties in Promoting Formate Production. ACS Energy Letters, 2022, 7, 2304-2310.	8.8	17
5	(Keynote) Mechanistic Understanding of the Activity of Atomically Dispersed Transition Metal-Nitrogen-Carbon Catalysts in Oxygen, Carbon Dioxide or Nitrogen Electro-Reduction. ECS Meeting Abstracts, 2022, MA2022-01, 2077-2077.	0.0	0
6	Unravelling the Influence of Oxygen on the Degradation Mechanisms of Fe-N-C Oxygen Reduction Reaction Catalysts. ECS Meeting Abstracts, 2022, MA2022-01, 2070-2070.	0.0	0
7	Fe–N–C Electrocatalysts' Durability: Effects of Single Atoms' Mobility and Clustering. ACS Catalysis, 2021, 11, 484-494.	5.5	53
8	Impact of catalyst layer morphology on the operation of high temperature PEM fuel cells. Journal of Power Sources Advances, 2021, 7, 100042.	2.6	29
9	Ni(OH)2-free NiCu as a hydrogen evolution and oxidation electrocatalyst. Electrochemistry Communications, 2021, 125, 106999.	2.3	9
10	Catalytic Hybrid Electrocatalytic/Biocatalytic Cascades for Carbon Dioxide Reduction and Valorization. ACS Catalysis, 2021, 11, 5172-5188.	5.5	31
11	Transition Metal Chalcogenides as a Versatile and Tunable Platform for Catalytic CO ₂ and N ₂ Electroreduction. ACS Materials Au, 2021, 1, 6-36.	2.6	55
12	Pyrolysis of Metal Organic Frameworks (MOF): Transformations Leading to Formation of Transition Metal-Nitrogen-Carbon Catalysts. ECS Meeting Abstracts, 2021, MA2021-01, 476-476.	0.0	2
13	Impact of ionomer structuration on the performance of bio-inspired noble-metal-free fuel cell anodes. Chem Catalysis, 2021, 1, 88-105.	2.9	14
14	Aluminum-air batteries: A review of alloys, electrolytes and design. Journal of Power Sources, 2021, 498, 229762.	4.0	74
15	Fabrication of platinum group metal-free catalyst layer with enhanced mass transport characteristics via an electrospraying technique. Materials Today Energy, 2021, 20, 100641.	2.5	9
16	Catalysts by pyrolysis: Direct observation of chemical and morphological transformations leading to transition metal-nitrogen-carbon materials. Materials Today, 2021, 47, 53-68.	8.3	30
17	Metal Oxide Clusters on Nitrogen-Doped Carbon are Highly Selective for CO ₂ Electroreduction to CO. ACS Catalysis, 2021, 11, 10028-10042.	5.5	37
18	Imaging Heterogeneous Electrocatalyst Stability and Decoupling Degradation Mechanisms in Operating Hydrogen Fuel Cells. ACS Energy Letters, 2021, 6, 2742-2749.	8.8	26

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19	Graphene-based catalyst for CO2 reduction: The critical role of solvents in materials design. Journal of Catalysis, 2021, 404, 512-517.	3.1	6
20	Robust Palladium Hydride (PdH/C) Catalyst for Electrocatalytic Formate Formation with Limited of CO Poisoning. ECS Meeting Abstracts, 2021, MA2021-02, 822-822.	0.0	0
21	CO2 Electroreduction on Mono- and Bi-Metallic M-N-C Catalysts. ECS Meeting Abstracts, 2021, MA2021-02, 831-831.	0.0	0
22	Platinum Nanoflowers: A New Class of Nanostructured Electrocatalysts for the Oxygen Reduction Reaction. ECS Meeting Abstracts, 2021, MA2021-02, 1278-1278.	0.0	1
23	Iron-Nitrogen-Carbon Catalysts for Proton Exchange Membrane Fuel Cells. Joule, 2020, 4, 33-44.	11.7	264
24	Integrating nanostructured Pt-based electrocatalysts in proton exchange membrane fuel cells. Journal of Power Sources, 2020, 478, 228516.	4.0	44
25	Facile All-Optical Method for In Situ Detection of Low Amounts of Ammonia. IScience, 2020, 23, 101757.	1.9	12
26	Cathode Catalysts Based on Cobalt- and Nitrogen-Doped Nanocarbon Composites for Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2020, 3, 5375-5384.	2.5	61
27	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Ptâ€based Electrocatalysts – Part I: Highâ€loading Pt/C and Pt Extended Surface. ChemPhysChem, 2020, 21, 468-468.	1.0	2
28	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Ptâ€based Electrocatalysts – Part I: Highâ€loading Pt/C and Pt Extended Surface. ChemPhysChem, 2020, 21, 469-475.	1.0	19
29	Metal–Nitrogen–Carbon Electrocatalysts for CO ₂ Reduction towards Syngas Generation. ChemSusChem, 2020, 13, 1688-1698.	3.6	36
30	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Ptâ€based Electrocatalysts – Part II: Effect of Platinum Dispersion. ChemPhysChem, 2020, 21, 1331-1339.	1.0	4
31	Understanding Pyrolysis: Operandoand in Situcharacterization of Morphology and Composition Changes during Synthesis of M-N-C Electrocatalysts. ECS Meeting Abstracts, 2020, MA2020-02, 2156-2156.	0.0	1
32	Advanced Nanostructures for Proton Exchange Membrane Fuel Cells: From Liquid Electrolyte to Membrane Electrode Assembly. ECS Meeting Abstracts, 2020, MA2020-01, 1613-1613.	0.0	0
33	Hybrid Copper Macrocycle/Nickel-Nitrogen Doped Graphite for Aqueous Electrochemical Carbon Dioxide Reduction. ECS Meeting Abstracts, 2020, MA2020-02, 3223-3223.	0.0	0
34	Electrocatalysts Based on Cobalt- and Nitrogen-Doped Nanocarbon Composites for Oxygen Reduction Reaction and Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2396-2396.	0.0	0
35	Investigating the Nature of the Active Sites for the CO ₂ Reduction Reaction on Carbon-Based Electrocatalysts. ACS Catalysis, 2019, 9, 7668-7678.	5.5	58
36	Activity and Durability of Platinum-Based Electrocatalysts with Tin Oxide–Coated Carbon Aerogel Materials as Catalyst Supports. Electrocatalysis, 2019, 10, 156-172.	1.5	12

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37	Morphological Attributes Govern Carbon Dioxide Reduction on N-Doped Carbon Electrodes. Joule, 2019, 3, 1719-1733.	11.7	132
38	Understanding the Role of Interfaces for Water Management in Platinum Group Metal-Free Electrodes in Polymer Electrolyte Fuel Cells. ACS Applied Energy Materials, 2019, 2, 3542-3553.	2.5	31
39	Small-angle scattering by supported nanoparticles: exact results and useful approximations. Journal of Applied Crystallography, 2019, 52, 507-519.	1.9	7
40	Kinetic Isotopic Effect Studies of Iron–Nitrogen–Carbon Electrocatalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2019, 123, 11476-11483.	1.5	12
41	Disentangling the Degradation Pathways of Highly Defective PtNi/C Nanostructures – An Operando Wide and Small Angle X-ray Scattering Study. ACS Catalysis, 2019, 9, 160-167.	5.5	22
42	Pentavalent Metal Doped TiO2 As Corrosion-Resistant Electrocatalyst Supports in Polymer Electrolyte Membrane Fuel Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
43	Understanding Pyrolysis of PGM-Free Electrocatalysts with X-Ray Computed Tomography. ECS Meeting Abstracts, 2019, , .	0.0	0
44	In Situ Characterization of Fe-N-C Electrocatalysts Synthesis By XPS and XRD. ECS Meeting Abstracts, 2019, , .	0.0	0
45	Kinetic Isotope Effect of the Oxygen Reduction Reaction on Carbon-Supported Platinum Electrocatalysts. ECS Meeting Abstracts, 2019, , .	0.0	0
46	Insights Onto the Active Sites and Reactivity of Metal-Doped Carbonaceous Electrocatalysts for the CO2 Reduction Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
47	Role of Protons on Activity and Selectivity of Fe-N-C Electroctatalysts for Oxygen Reduction Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
48	Iron-Nitrogen-Carbon (Fe-N-C) Active Sites Imaging By Scanning Transmission Electron Microscopy (STEM). ECS Meeting Abstracts, 2019, , .	0.0	0
49	Design of Pd-Pb Catalysts for Glycerol and Ethylene Glycol Electrooxidation in Alkaline Medium. Electrocatalysis, 2018, 9, 480-485.	1.5	20
50	A Review on Recent Developments and Prospects for the Oxygen Reduction Reaction on Hollow Ptâ€alloy Nanoparticles. ChemPhysChem, 2018, 19, 1552-1567.	1.0	64
51	Inhibition of Surface Chemical Moieties by Tris(hydroxymethyl)aminomethane: A Key to Understanding Oxygen Reduction on Iron–Nitrogen–Carbon Catalysts. ACS Applied Energy Materials, 2018, 1, 1942-1949.	2.5	18
52	Porous Hollow PtNi/C Electrocatalysts: Carbon Support Considerations To Meet Performance and Stability Requirements. ACS Catalysis, 2018, 8, 893-903.	5.5	67
53	Utilization of graphitized and fluorinated carbon as platinum nanoparticles supports for application in proton exchange membrane fuel cell cathodes. Journal of Power Sources, 2018, 404, 28-38.	4.0	16
54	Tin dioxide coated carbon materials as an alternative catalyst support for PEMFCs: Impacts of the intrinsic carbon properties and the synthesis parameters on the coating characteristics. Microporous and Mesoporous Materials, 2018, 271, 1-15.	2.2	13

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#	Article	IF	CITATIONS
55	Implementing PGM-free electrocatalysts in high-temperature polymer electrolyte membrane fuel cells. Electrochemistry Communications, 2018, 93, 91-94.	2.3	24
56	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. Nature Materials, 2018, 17, 827-833.	13.3	344
57	Activity and Durability of Platinum-Based Electrocatalysts Supported on Bare or Fluorinated Nanostructured Carbon Substrates. Journal of the Electrochemical Society, 2018, 165, F3346-F3358.	1.3	27
58	Effect of Atomic Vacancies on the Structure and the Electrocatalytic Activity of Ptâ€rich/C Nanoparticles: A Combined Experimental and Density Functional Theory Study. ChemCatChem, 2017, 9, 2324-2338.	1.8	23
59	Atomic-Scale Snapshots of the Formation and Growth of Hollow PtNi/C Nanocatalysts. Nano Letters, 2017, 17, 2447-2453.	4.5	40
60	Implementing Structural Disorder as a Promising Direction for Improving the Stability of PtNi/C Nanoparticles. ACS Catalysis, 2017, 7, 3072-3081.	5.5	61
61	(Invited) Porous Hollow PtNi/C Nanoparticles and Their Many Facets. ECS Transactions, 2017, 80, 731-741.	0.3	2
62	Elucidating the Mechanisms Driving the Aging of Porous Hollow PtNi/C Nanoparticles by Means of CO _{ads} Stripping. ACS Applied Materials & Interfaces, 2017, 9, 25298-25307.	4.0	19
63	Beyond Strain and Ligand Effects: Microstrain-Induced Enhancement of the Oxygen Reduction Reaction Kinetics on Various PtNi/C Nanostructures. ACS Catalysis, 2017, 7, 398-408.	5.5	140
64	Structure–Activity Relationships for the Oxygen Reduction Reaction in Porous Hollow PtNi/C Nanoparticles. ChemElectroChem, 2016, 3, 1591-1600.	1.7	16
65	Highly active and selective nickel molybdenum catalysts for direct hydrazine fuel cell. Electrochimica Acta, 2016, 215, 420-426.	2.6	59
66	Defects do Catalysis: CO Monolayer Oxidation and Oxygen Reduction Reaction on Hollow PtNi/C Nanoparticles. ACS Catalysis, 2016, 6, 4673-4684.	5.5	107
67	Highly-active Pd–Cu electrocatalysts for oxidation of ubiquitous oxygenated fuels. Applied Catalysis B: Environmental, 2016, 191, 76-85.	10.8	61
68	Influence of the Temperature for the Ethanol Oxidation Reaction (EOR) on Pt/C, Ptâ€Rh/C and Ptâ€Rh‧nO ₂ /C. Fuel Cells, 2015, 15, 352-360.	1.5	28
69	Tuning the Performance and the Stability of Porous Hollow PtNi/C Nanostructures for the Oxygen Reduction Reaction. ACS Catalysis, 2015, 5, 5333-5341.	5.5	125
70	Palladium Supported on 3D Graphene as an Active Catalyst for Alcohols Electrooxidation. Journal of the Electrochemical Society, 2015, 162, F1305-F1309.	1.3	41
71	Electrooxidation of Ethanol at Room Temperature on Carbon-Supported Pt and Rh-Containing Catalysts: A DEMS Study. Journal of the Electrochemical Society, 2014, 161, F918-F924.	1.3	26