Michaela Burke Stevens

List of Publications by Year
in descending order

30 papers	1,879 citations	430874 18 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	2925 citing authors

#	Article	IF	Citations
1	Engineering metalâ€“metal oxide surfaces for high-performance oxygen reduction on Agâ€“Mn electrocatalysts. Energy and Environmental Science, 2022, 15, 1611-1629.	30.8	22
2	Acid anion electrolyte effects on platinum for oxygen and hydrogen electrocatalysis. Communications Chemistry, 2022, 5, .	4.5	48
3	First-Row Transition Metal Antimonates for the Oxygen Reduction Reaction. ACS Nano, 2022, 16, 6334-6348.	14.6	23
4	Methodsâ€"A Practical Approach to the Reversible Hydrogen Electrode Scale. Journal of the Electrochemical Society, 2022, 169, 066505.	2.9	11
5	Acid Anion Electrolyte Effects on Platinum for Oxygen and Hydrogen Electrocatalysis. ECS Meeting Abstracts, 2022, MA2022-01, 2056-2056.	0.0	0
6	Isolating the Electrocatalytic Activity of a Confined NiFe Motif within Zirconium Phosphate. Advanced Energy Materials, 2021, 11, 2003545.	19.5	21
7	Understanding Degradation Mechanisms in SrIrO₃ Oxygen Evolution Electrocatalysts: Chemical and Structural Microscopy at the Nanoscale. Advanced Functional Materials, 2021, 31, 2101542.	14.9	16
8	Probing the Effects of Acid Electrolyte Anions on Electrocatalyst Activity and Selectivity for the Oxygen Reduction Reaction. ChemElectroChem, 2021, 8, 2467-2478.	3.4	25
9	Tuning the electronic structure of Ag-Pd alloys to enhance performance for alkaline oxygen reduction. Nature Communications, 2021, 12, 620.	12.8	107
10	Microenvironment Effects on Electrocatalytic Oxygen Reduction: The Role of Acid Electrolyte Anions. ECS Meeting Abstracts, 2021, MA2021-02, 1422-1422.	0.0	0
11	Understanding the Origin of Highly Selective CO₂ Electroreduction to CO on Ni,Nâ€doped Carbon Catalysts. Angewandte Chemie, 2020, 132, 4072-4079.	2.0	48
12	Understanding the Origin of Highly Selective CO₂ Electroreduction to CO on Ni,Nâ€doped Carbon Catalysts. Angewandte Chemie - International Edition, 2020, 59, 4043-4050.	13.8	148
13	Nanosized Zirconium Porphyrinic Metalâ€“Organic Frameworks that Catalyze the Oxygen Reduction Reaction in Acid. Small Methods, 2020, 4, 2000085.	8.6	18
14	Identifying and Tuning the In Situ Oxygen-Rich Surface of Molybdenum Nitride Electrocatalysts for Oxygen Reduction. ACS Applied Energy Materials, 2020, 3, 12433-12446.	5.1	17
15	Nitride or Oxynitride? Elucidating the Compositionâ€“Activity Relationships in Molybdenum Nitride Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 2946-2960.	6.7	57
16	In Situ X-Ray Absorption Spectroscopy Disentangles the Roles of Copper and Silver in a Bimetallic Catalyst for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 1819-1827.	6.7	30
17	Enhanced Oxygen Reduction Activity on Silver-Palladium Alloyed Thin Film Electrocatalysts in Alkaline Media. ECS Meeting Abstracts, 2020, MA2020-02, 2397-2397.	0.0	0
18	Use of in Situ Synchrotron Techniques to Probe the Oxidized Surface of Molybdenum Nitride Oxygen Reduction Electrocatalysis. ECS Meeting Abstracts, 2020, MA2020-02, 3157-3157.	0.0	0

#	Article	IF	Citations
19	Transmission Electron Microscopy (TEM) Studies on Nickel and Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts. Microscopy and Microanalysis, 2019, 25, 2072-2073.	0.4	1
20	Effects of Metal Electrode Support on the Catalytic Activity of Fe(oxy)hydroxide for the Oxygen Evolution Reaction in Alkaline Media. ChemPhysChem, 2019, 20, 3089-3095.	2.1	39
21	Ternary Ni-Co-Fe oxyhydroxide oxygen evolution catalysts: Intrinsic activity trends, electrical conductivity, and electronic band structure. Nano Research, 2019, 12, 2288-2295.	10.4	134
22	Earth-Abundant Oxygen Electrocatalysts for Alkaline Anion-Exchange-Membrane Water Electrolysis: Effects of Catalyst Conductivity and Comparison with Performance in Three-Electrode Cells. ACS Catalysis, 2019, 9, 7-15.	11.2	189
23	Degradation and Stabilization of Porphyrin-Based Metal Organic Framework Electrocatalysts for the Oxygen Reduction Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
24	Characterization of Surface Changes on Molybdenum Nitride Thin Films during the Oxygen Reduction Reaction Using Operando Grazing Incidence X-Ray Absorption Spectroscopy. ECS Meeting Abstracts, 2019, , .	0.0	0
25	Transition-Metal-Incorporated Aluminum Oxide Thin Films: Toward Electronic Structure Design in Amorphous Mixed-Metal Oxides. Journal of Physical Chemistry C, 2018, 122, 13691-13704.	3.1	8
26	Operando Xâ€Ray Absorption Spectroscopy Shows Iron Oxidation Is Concurrent with Oxygen Evolution in Cobaltâ€"Iron (Oxy)hydroxide Electrocatalysts. Angewandte Chemie, 2018, 130, 13022-13026.	2.0	28
27	Operando Xâ€Ray Absorption Spectroscopy Shows Iron Oxidation Is Concurrent with Oxygen Evolution in Cobaltâ€"Iron (Oxy)hydroxide Electrocatalysts. Angewandte Chemie - International Edition, 2018, 57, 12840-12844.	13.8	131
28	Influence of Electrolyte Cations on Ni(Fe)OOH Catalyzed Oxygen Evolution Reaction. Chemistry of Materials, 2017, 29, 4761-4767.	6.7	105
29	Morphology Dynamics of Single-Layered Ni(OH)₂/NiOOH Nanosheets and Subsequent Fe Incorporation Studied by <i>in Situ</i> Electrochemical Atomic Force Microscopy. Nano Letters, 2017, 17, 6922-6926.	9.1	121
30	Reactive Fe-Sites in Ni/Fe (Oxy)hydroxide Are Responsible for Exceptional Oxygen Electrocatalysis Activity. Journal of the American Chemical Society, 2017, 139, 11361-11364.	13.7	532