Ali Seifitokaldani

List of Publications by Year
in descending order

42	7,881	172457	265206
papers	citations	29 h-index	42 g-index

43	43	43	6842
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Promoted self-construction of Î²-NiOOH in amorphous high entropy electrocatalysts for the oxygen evolution reaction. Applied Catalysis B: Environmental, 2022, 301, 120764.	20.2	103
2	Technoeconomic and Life-Cycle Assessment for Electrocatalytic Production of Furandicarboxylic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 4206-4217.	6.7	13
3	CO₂ Electrolysis via Surface-Engineering Electrografted Pyridines on Silver Catalysts. ACS Catalysis, 2022, 12, 7862-7876.	11.2	21
4	Experimental methods in chemical engineering: Density functional theory. Canadian Journal of Chemical Engineering, 2021, 99, 1885-1911.	1.7	19
5	Electrochemical CO₂reduction to ethanol: from mechanistic understanding to catalyst design. Journal of Materials Chemistry A, 2021, 9, 12474-12494.	10.3	36
6	Boride-derived oxygen-evolution catalysts. Nature Communications, 2021, 12, 6089.	12.8	51
7	Catalyst synthesis under CO2 electroreduction favours faceting and promotes renewable fuels electrosynthesis. Nature Catalysis, 2020, 3, 98-106.	34.4	325
8	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. Nature Communications, 2020, 11, 103.	12.8	181
9	High-Valent Nickel Promoted by Atomically Embedded Copper for Efficient Water Oxidation. ACS Catalysis, 2020, 10, 9725-9734.	11.2	100
10	Fundamentals of Electrochemical CO₂ Reduction on Single-Metal-Atom Catalysts. ACS Catalysis, 2020, 10, 10068-10095.	11.2	161
11	Accelerated discovery of CO2 electrocatalysts using active machine learning. Nature, 2020, 581, 178-183.	27.8	807
12	CO ₂ electrolysis to multicarbon products at activities greater than 1 A cm ^{â^'2}. Science, 2020, 367, 661-666.	12.6	860
13	Electrochemical Reactors for CO2 Conversion. Catalysts, 2020, 10, 473.	3.5	72
14	In Situ Spectroscopic Methods for Electrocatalytic CO2 Reduction. Catalysts, 2020, 10, 481.	3.5	35
15	Metalâ€“organic framework derived copper catalysts for CO₂ to ethylene conversion. Journal of Materials Chemistry A, 2020, 8, 11117-11123.	10.3	82
16	DFT Analysis of Ethanol Electro-Oxidation on Fe(110) and Fe3C(110) and its Correlation with the Stress Corrosion Cracking of Carbon Steel. Journal of the Electrochemical Society, 2020, 167, 111503.	2.9	2
17	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	24.0	106
18	Enhanced Electrochemical Reduction of CO₂ Catalyzed by Cobalt and Iron Amino Porphyrin Complexes. ACS Applied Energy Materials, 2019, 2, 1330-1335.	5.1	71

#	Article	IF	Citations
19	Electrochemical CO₂ Reduction into Chemical Feedstocks: From Mechanistic Electrocatalysis Models to System Design. Advanced Materials, 2019, 31, e1807166.	21.0	769
20	Electroâ€Optic Modulation in Hybrid Metal Halide Perovskites. Advanced Materials, 2019, 31, e1808336.	21.0	42
21	Efficient upgrading of CO to C3 fuel using asymmetric C-C coupling active sites. Nature Communications, 2019, 10, 5186.	12.8	127
22	Hydronium-Induced Switching between CO₂ Electroreduction Pathways. Journal of the American Chemical Society, 2018, 140, 3833-3837.	13.7	144
23	ELSI: A unified software interface for Kohnâ€“Sham electronic structure solvers. Computer Physics Communications, 2018, 222, 267-285.	7.5	78
24	A Surface Reconstruction Route to High Productivity and Selectivity in CO₂ Electroreduction toward C₂₊ Hydrocarbons. Advanced Materials, 2018, 30, e1804867.	21.0	200
25	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO2. Nature Communications, 2018, 9, 3828.	12.8	279
26	Activated Electronâ€Transport Layers for Infrared Quantum Dot Optoelectronics. Advanced Materials, 2018, 30, e1801720.	21.0	57
27	CO ₂ electroreduction to ethylene via hydroxide-mediated copper catalysis at an abrupt interface. Science, 2018, 360, 783-787.	12.6	1,638
28	Metalâ€“Organic Frameworks Mediate Cu Coordination for Selective CO₂ Electroreduction. Journal of the American Chemical Society, 2018, 140, 11378-11386.	13.7	326
29	2D Metal Oxyhalideâ€Derived Catalysts for Efficient CO₂ Electroreduction. Advanced Materials, 2018, 30, e1802858.	21.0	200
30	Steering post-Câ€“C coupling selectivity enables high efficiency electroreduction of carbon dioxide to multi-carbon alcohols. Nature Catalysis, 2018, 1, 421-428.	34.4	537
31	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. Nano Letters, 2018, 18, 4417-4423.	9.1	57
32	Combined high alkalinity and pressurization enable efficient CO₂ electroreduction to CO. Energy and Environmental Science, 2018, 11, 2531-2539.	30.8	214
33	On the limitation of density functional theory (DFT) for the treatment of the anharmonicity in FCC metals. Solid State Communications, 2016, 247, 78-81.	1.9	2
34	Important Variation in Vibrational Properties of LiFePO4 and FePO4 Induced by Magnetism. Scientific Reports, 2016, 6, 33033.	3.3	8
35	Thermophysical properties of titanium and vanadium nitrides: Thermodynamically self-consistent approach coupled with density functional theory. Journal of Alloys and Compounds, 2016, 662, 240-251.	5.5	21
36	An ab initio method for the prediction of the lattice thermal transport properties of oxide systems: Case study of Li2O and K2O. Journal of Applied Physics, 2015, 118, .	2.5	19

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37	Stability and catalytic activity of titanium oxy-nitride catalyst prepared by in-situ urea-based solâ€“gel method for the oxygen reduction reaction (ORR) in acid medium. International Journal of Hydrogen Energy, 2015, 40, 10427-10438.	7.1	22
38	Thermodynamically self-consistent method to predict thermophysical properties of ionic oxides. Computational Materials Science, 2015, 108, 17-26.	3.0	20
39	Electrochemically Stable Titanium Oxy-Nitride Support for Platinum Electro-Catalyst for PEM Fuel Cell Applications. Electrochimica Acta, 2015, 167, 237-245.	5.2	24
40	Electrochemical and physicochemical properties of titanium Oxy-nitride electrocatalyst prepared by sol-gel methods for the oxygen reduction reaction purposes. Journal of Solid State Electrochemistry, 2015, 19, 3097-3109.	2.5	5
41	Density Functional Theory (DFT) Computation of the Oxygen Reduction Reaction (ORR) on Titanium Nitride (TiN) Surface. Electrochimica Acta, 2014, 141, 25-32.	5.2	42
42	Oxygen Reduction Reaction (ORR) on a Mixed Titanium and Tantalum Oxy-nitride Catalyst Prepared by the Urea-based Sol-gel Method. Journal of New Materials for Electrochemical Systems, 2014, 17, 055-065.	0.6	5