

Ali Seifitokaldani

List of Publications by Year in descending order

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42
papers

7,881
citations

172457

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265206

42
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43
all docs

43
docs citations

43
times ranked

6842
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ electroreduction to ethylene via hydroxide-mediated copper catalysis at an abrupt interface. <i>Science</i> , 2018, 360, 783-787.	12.6	1,638
2	CO ₂ electrolysis to multicarbon products at activities greater than 1 A cm ⁻² . <i>Science</i> , 2020, 367, 661-666.	12.6	860
3	Accelerated discovery of CO ₂ electrocatalysts using active machine learning. <i>Nature</i> , 2020, 581, 178-183.	27.8	807
4	Electrochemical CO ₂ Reduction into Chemical Feedstocks: From Mechanistic Electrocatalysis Models to System Design. <i>Advanced Materials</i> , 2019, 31, e1807166.	21.0	769
5	Steering post-C-C coupling selectivity enables high efficiency electroreduction of carbon dioxide to multi-carbon alcohols. <i>Nature Catalysis</i> , 2018, 1, 421-428.	34.4	537
6	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 11378-11386.	13.7	326
7	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. <i>Nature Catalysis</i> , 2020, 3, 98-106.	34.4	325
8	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO ₂ . <i>Nature Communications</i> , 2018, 9, 3828.	12.8	279
9	Combined high alkalinity and pressurization enable efficient CO ₂ electroreduction to CO. <i>Energy and Environmental Science</i> , 2018, 11, 2531-2539.	30.8	214
10	A Surface Reconstruction Route to High Productivity and Selectivity in CO ₂ Electroreduction toward C ₂₊ Hydrocarbons. <i>Advanced Materials</i> , 2018, 30, e1804867.	21.0	200
11	2D Metal Oxyhalide-Derived Catalysts for Efficient CO ₂ Electroreduction. <i>Advanced Materials</i> , 2018, 30, e1802858.	21.0	200
12	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020, 11, 103.	12.8	181
13	Fundamentals of Electrochemical CO ₂ Reduction on Single-Metal-Atom Catalysts. <i>ACS Catalysis</i> , 2020, 10, 10068-10095.	11.2	161
14	Hydronium-Induced Switching between CO ₂ Electroreduction Pathways. <i>Journal of the American Chemical Society</i> , 2018, 140, 3833-3837.	13.7	144
15	Efficient upgrading of CO to C ₃ fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019, 10, 5186.	12.8	127
16	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019, 3, 1703-1718.	24.0	106
17	Promoted self-construction of $\hat{\Gamma}^2$ -NiOOH in amorphous high entropy electrocatalysts for the oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120764.	20.2	103
18	High-Valent Nickel Promoted by Atomically Embedded Copper for Efficient Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 9725-9734.	11.2	100

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19	Metal-organic framework derived copper catalysts for CO ₂ to ethylene conversion. Journal of Materials Chemistry A, 2020, 8, 11117-11123.	10.3	82
20	ELSI: A unified software interface for Kohn-Sham electronic structure solvers. Computer Physics Communications, 2018, 222, 267-285.	7.5	78
21	Electrochemical Reactors for CO ₂ Conversion. Catalysts, 2020, 10, 473.	3.5	72
22	Enhanced Electrochemical Reduction of CO ₂ Catalyzed by Cobalt and Iron Amino Porphyrin Complexes. ACS Applied Energy Materials, 2019, 2, 1330-1335.	5.1	71
23	Activated Electron-Transport Layers for Infrared Quantum Dot Optoelectronics. Advanced Materials, 2018, 30, e1801720.	21.0	57
24	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. Nano Letters, 2018, 18, 4417-4423.	9.1	57
25	Boride-derived oxygen-evolution catalysts. Nature Communications, 2021, 12, 6089.	12.8	51
26	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
27	Electro-Optic Modulation in Hybrid Metal Halide Perovskites. Advanced Materials, 2019, 31, e1808336.	21.0	42
28	Electrochemical CO ₂ reduction to ethanol: from mechanistic understanding to catalyst design. Journal of Materials Chemistry A, 2021, 9, 12474-12494.	10.3	36
29	In Situ Spectroscopic Methods for Electrocatalytic CO ₂ Reduction. Catalysts, 2020, 10, 481.	3.5	35
30	Electrochemically Stable Titanium Oxy-Nitride Support for Platinum Electro-Catalyst for PEM Fuel Cell Applications. Electrochimica Acta, 2015, 167, 237-245.	5.2	24
31	Stability and catalytic activity of titanium oxy-nitride catalyst prepared by in-situ urea-based sol-gel method for the oxygen reduction reaction (ORR) in acid medium. International Journal of Hydrogen Energy, 2015, 40, 10427-10438.	7.1	22
32	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
33	CO ₂ Electrolysis via Surface-Engineering Electrografted Pyridines on Silver Catalysts. ACS Catalysis, 2022, 12, 7862-7876.	11.2	21
34	Thermodynamically self-consistent method to predict thermophysical properties of ionic oxides. Computational Materials Science, 2015, 108, 17-26.	3.0	20
35	An <i>ab initio</i> method for the prediction of the lattice thermal transport properties of oxide systems: Case study of Li ₂ O and K ₂ O. Journal of Applied Physics, 2015, 118, .	2.5	19
36	Experimental methods in chemical engineering: Density functional theory. Canadian Journal of Chemical Engineering, 2021, 99, 1885-1911.	1.7	19

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37	Technoeconomic and Life-Cycle Assessment for Electrocatalytic Production of Furandicarboxylic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 4206-4217.	6.7	13
38	Important Variation in Vibrational Properties of LiFePO ₄ and FePO ₄ Induced by Magnetism. Scientific Reports, 2016, 6, 33033.	3.3	8
39	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
40	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
41	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
42	DFT Analysis of Ethanol Electro-Oxidation on Fe(110) and Fe ₃ C(110) and its Correlation with the Stress Corrosion Cracking of Carbon Steel. Journal of the Electrochemical Society, 2020, 167, 111503.	2.9	2