Jin Suntivich

List of Publications by Year in Descending Order

55 papers	12,586 citations	28 h-index	65 g-index
65 ext. papers	14,441 ext. citations	11.1 avg, IF	6.51 L-index

#	Paper	IF	Citations
55	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. *Chemical Reviews*, **2022**,	68.1	25
54	Effect of substrate-induced lattice strain on the electrochemical properties of pulsed laser deposited nickel oxide thin film. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 280, 115711	3.1	0
53	Iron and nitrogen-doped double gyroid mesoporous carbons for oxygen reduction in acidic environments. *JPhys Energy*, **2021**, 3, 015001	4.9	0
52	Cu(I) Reducibility Controls Ethylene vs Ethanol Selectivity on (100)-Textured Copper during Pulsed CO Reduction. *ACS Applied Materials & Interfaces*, **2021**, 13, 14050-14055	9.5	5
51	Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. *Chemistry of Materials*, **2021**, 33, 4006-4013	9.6	5
50	Effect of Electrolyte Composition and Concentration on Pulsed Potential Electrochemical CO2 Reduction. *ChemElectroChem*, **2021**, 8, 681-688	4.3	7
49	Amorphization mechanism of SrIrO electrocatalyst: How oxygen redox initiates ionic diffusion and structural reorganization. *Science Advances*, **2021**, 7,	14.3	50
48	Pulse check: Potential opportunities in pulsed electrochemical CO2 reduction. *Joule*, **2021**, 5, 1987-2026	27.8	11
47	Selective Electrochemical CO2 Reduction during Pulsed Potential Stems from Dynamic Interface. *ACS Catalysis*, **2020**, 10, 8632-8639	13.1	24
46	Enthalpy and entropy of oxygen electroadsorption on RuO(110) in alkaline media. *Journal of Chemical Physics*, **2020**, 152, 094704	3.9	4
45	Solute Incorporation at Oxide□Oxide Interfaces Explains How Ternary Mixed-Metal Oxide Nanocrystals Support Element-Specific Anisotropic Growth. *Advanced Functional Materials*, **2020**, 30, 1909054	15.6	1
44	Temperature Effect of CO2 Reduction Electrocatalysis on Copper: Potential Dependency of Activation Energy. *Journal of Electrochemical Energy Conversion and Storage*, **2020**, 17,	2	5
43	Materials Combining Asymmetric Pore Structures with Well-Defined Mesoporosity for Energy Storage and Conversion. *ACS Nano*, **2020**,	16.7	7
42	Tertiary Hierarchical Complexity in Assemblies of Sulfur-Bridged Metal Chiral Clusters. *Journal of the American Chemical Society*, **2020**, 142, 14495-14503	16.4	10
41	Phase-Sensitive Second-Harmonic Generation of Electrochemical Interfaces. *Journal of Physical Chemistry Letters*, **2020**, 11, 8216-8221	6.4	4
40	SrCrN: A New Electride with a Partially Filled -Shell Transition Metal. *Journal of the American Chemical Society*, **2019**, 141, 10595-10598	16.4	19
39	Influence of 3d transition-metal substitution on the oxygen reduction reaction electrocatalysis of ternary nitrides in acid. *Nano Research*, **2019**, 12, 2307-2312	10	12

38	Cr2O3 Nanoparticle Decorated Carbon Nanofibers Derived from Solid Leather Wastes for High Performance Lithium-Sulfur Battery Separator Coating. *Journal of the Electrochemical Society*, **2019**, 166, A1671-A1676	3.9	10
37	New frontiers for the materials genome initiative. *Npj Computational Materials*, **2019**, 5,	10.9	171
36	Chlorine evolution reaction electrocatalysis on RuO(110) and IrO(110) grown using molecular-beam epitaxy. *Journal of Chemical Physics*, **2019**, 150, 041726	3.9	27
35	Assessment of Soft Ligand Removal Strategies: Alkylation as a Promising Alternative to High-Temperature Treatments for Colloidal Nanoparticle Surfaces **2019**, 1, 177-184		13
34	In Situ Stimulated Raman Spectroscopy Reveals the Phosphate Network in the Amorphous Cobalt Oxide Catalyst and Its Role in the Catalyst Formation. *Journal of Physical Chemistry C*, **2019**, 123, 29284-29290	3.8	9
33	Searching for materials with high refractive index and wide band gap: A first-principles high-throughput study. *Physical Review Materials*, **2019**, 3,	3.2	20
32	High index contrast photonic platforms for on-chip Raman spectroscopy. *Optics Express*, **2019**, 27, 23067-23079	3.8	24
31	Predicting the Electrochemical Synthesis of 2D Materials from First Principles. *Journal of Physical Chemistry C*, **2019**, 123, 3180-3187	3.8	18
30	Influence of Strain on the Surface Oxygen Interaction and the Oxygen Evolution Reaction of SrIrO3. *Journal of Physical Chemistry C*, **2018**, 122, 4359-4364	3.8	30
29	Measurements of Oxygen Electroadsorption Energies and Oxygen Evolution Reaction on RuO(110): A Discussion of the Sabatier Principle and Its Role in Electrocatalysis. *Journal of the American Chemical Society*, **2018**, 140, 17597-17605	16.4	97
28	Tailoring manganese oxide with atomic precision to increase surface site availability for oxygen reduction catalysis. *Nature Communications*, **2018**, 9, 4034	17.4	30
27	Controlled Selectivity of CO Reduction on Copper by Pulsing the Electrochemical Potential. *ChemSusChem*, **2018**, 11, 1781-1786	8.3	43
26	Influence of Surface Adsorption on the Oxygen Evolution Reaction on IrO(110). *Journal of the American Chemical Society*, **2017**, 139, 3473-3479	16.4	191
25	Mesoporous titanium and niobium nitrides as conductive and stable electrocatalyst supports in acid environments. *Chemical Communications*, **2017**, 53, 7250-7253	5.8	28
24	Influence of Aliovalent Substitutions on Oxygen Reduction on Tantalum Oxynitrides. *Journal of the Electrochemical Society*, **2017**, 164, F645-F650	3.9	3
23	TiO2 Nanophotonic Sensors for Efficient Integrated Evanescent Raman Spectroscopy. *ACS Photonics*, **2016**, 3, 1662-1669	6.3	41
22	High-Mobility Bismuth-based Transparent p-Type Oxide from High-Throughput Material Screening. *Chemistry of Materials*, **2016**, 28, 30-34	9.6	95
21	Oxygen evolution reaction electrocatalysis on SrIrO3 grown using molecular beam epitaxy. *Journal of Materials Chemistry A*, **2016**, 4, 6831-6836	13	52

20	Increased activity in hydrogen evolution electrocatalysis for partial anionic substitution in cobalt oxysulfide nanoparticles. *Journal of Materials Chemistry A*, **2016**, 4, 2842-2848	13	24
19	Toward the rational design of non-precious transition metal oxides for oxygen electrocatalysis. *Energy and Environmental Science*, **2015**, 8, 1404-1427	35.4	1273
18	Low-loss titanium dioxide waveguides and resonators using a dielectric lift-off fabrication process. *Optics Express*, **2015**, 23, 11160-9	3.3	47
17	Oxygen Reduction Activity and Stability Trends of Bimetallic Pt0.5M0.5 Nanoparticle in Acid. *Journal of Physical Chemistry C*, **2015**, 119, 3971-3978	3.8	33
16	Low-Loss Titanium Dioxide Waveguides for Integrated Evanescent Raman Spectroscopy **2015**,		1
15	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O K-edge X-ray Absorption Spectroscopy. *Journal of Physical Chemistry C*, **2014**, 118, 1856-1863	3.8	244
14	Visible Light Photo-oxidation in Au Nanoparticle Sensitized SrTiO3:Nb Photoanode. *Journal of Physical Chemistry C*, **2013**, 117, 15532-15539	3.8	21
13	The Influence of the Cation on the Oxygen Reduction and Evolution Activities of Oxide Surfaces in Alkaline Electrolyte. *Electrocatalysis*, **2013**, 4, 49-55	2.7	94
12	Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. *Energy and Environmental Science*, **2013**, 6, 1582	35.4	127
11	Surface composition tuning of Au-Pt bimetallic nanoparticles for enhanced carbon monoxide and methanol electro-oxidation. *Journal of the American Chemical Society*, **2013**, 135, 7985-91	16.4	240
10	Influence of Oxygen Evolution during Water Oxidation on the Surface of Perovskite Oxide Catalysts. *Journal of Physical Chemistry Letters*, **2012**, 3, 3264-3270	6.4	444
9	Synthesis and Activities of Rutile IrO2 and RuO2 Nanoparticles for Oxygen Evolution in Acid and Alkaline Solutions. *Journal of Physical Chemistry Letters*, **2012**, 3, 399-404	6.4	2336
8	Graphene-Based Non-Noble-Metal Catalysts for Oxygen Reduction Reaction in Acid. *Chemistry of Materials*, **2011**, 23, 3421-3428	9.6	402
7	Fe-N-modified multi-walled carbon nanotubes for oxygen reduction reaction in acid. *Physical Chemistry Chemical Physics*, **2011**, 13, 21437-45	3.6	69
6	A perovskite oxide optimized for oxygen evolution catalysis from molecular orbital principles. *Science*, **2011**, 334, 1383-5	33.3	3392
5	Design principles for oxygen-reduction activity on perovskite oxide catalysts for fuel cells and metal-air batteries. *Nature Chemistry*, **2011**, 3, 546-50	17.6	1940
4	Role of Surface Steps of Pt Nanoparticles on the Electrochemical Activity for Oxygen Reduction. *Journal of Physical Chemistry Letters*, **2010**, 1, 1316-1320	6.4	115
3	Oxygen reduction reactivity of cobalt(II) hangman porphyrins. *Chemical Science*, **2010**, 1, 411	9.4	198

2	Electrocatalytic Measurement Methodology of Oxide Catalysts Using a Thin-Film Rotating Disk Electrode. *Journal of the Electrochemical Society*, **2010**, 157, B1263	3.9	304
1	Hydrodynamic characterization of surfactant encapsulated carbon nanotubes using an analytical ultracentrifuge. *ACS Nano*, **2008**, 2, 2291-300	16.7	102