

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A perovskite oxide optimized for oxygen evolution catalysis from molecular orbital principles. <i>Science</i> , <b>2011</b> , 334, 1383-5	33.3	3392
54	Synthesis and Activities of Rutile IrO <sub>2</sub> and RuO <sub>2</sub> Nanoparticles for Oxygen Evolution in Acid and Alkaline Solutions. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 399-404	6.4	2336
53	Design principles for oxygen-reduction activity on perovskite oxide catalysts for fuel cells and metal-air batteries. <i>Nature Chemistry</i> , <b>2011</b> , 3, 546-50	17.6	1940
52	Toward the rational design of non-precious transition metal oxides for oxygen electrocatalysis. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1404-1427	35.4	1273
51	Influence of Oxygen Evolution during Water Oxidation on the Surface of Perovskite Oxide Catalysts. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3264-3270	6.4	444
50	Graphene-Based Non-Noble-Metal Catalysts for Oxygen Reduction Reaction in Acid. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3421-3428	9.6	402
49	Electrocatalytic Measurement Methodology of Oxide Catalysts Using a Thin-Film Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, B1263	3.9	304
48	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O K-edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1856-1863	3.8	244
47	Surface composition tuning of Au-Pt bimetallic nanoparticles for enhanced carbon monoxide and methanol electro-oxidation. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7985-91	16.4	240
46	Oxygen reduction reactivity of cobalt(II) heme porphyrins. <i>Chemical Science</i> , <b>2010</b> , 1, 411	9.4	198
45	Influence of Surface Adsorption on the Oxygen Evolution Reaction on IrO(110). <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3473-3479	16.4	191
44	New frontiers for the materials genome initiative. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	171
43	Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1582	35.4	127
42	Role of Surface Steps of Pt Nanoparticles on the Electrochemical Activity for Oxygen Reduction. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1316-1320	6.4	115
41	Hydrodynamic characterization of surfactant encapsulated carbon nanotubes using an analytical ultracentrifuge. <i>ACS Nano</i> , <b>2008</b> , 2, 2291-300	16.7	102
40	Measurements of Oxygen Electroadsorption Energies and Oxygen Evolution Reaction on RuO(110): A Discussion of the Sabatier Principle and Its Role in Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17597-17605	16.4	97
39	High-Mobility Bismuth-based Transparent p-Type Oxide from High-Throughput Material Screening. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 30-34	9.6	95

38	The Influence of the Cation on the Oxygen Reduction and Evolution Activities of Oxide Surfaces in Alkaline Electrolyte. <i>Electrocatalysis</i> , <b>2013</b> , 4, 49-55	2.7	94
37	Fe-N-modified multi-walled carbon nanotubes for oxygen reduction reaction in acid. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 21437-45	3.6	69
36	Oxygen evolution reaction electrocatalysis on SrIrO <sub>3</sub> grown using molecular beam epitaxy. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6831-6836	13	52
35	Amorphization mechanism of SrIrO electrocatalyst: How oxygen redox initiates ionic diffusion and structural reorganization. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	50
34	Low-loss titanium dioxide waveguides and resonators using a dielectric lift-off fabrication process. <i>Optics Express</i> , <b>2015</b> , 23, 11160-9	3.3	47
33	Controlled Selectivity of CO Reduction on Copper by Pulsing the Electrochemical Potential. <i>ChemSusChem</i> , <b>2018</b> , 11, 1781-1786	8.3	43
32	TiO <sub>2</sub> Nanophotonic Sensors for Efficient Integrated Evanescent Raman Spectroscopy. <i>ACS Photonics</i> , <b>2016</b> , 3, 1662-1669	6.3	41
31	Oxygen Reduction Activity and Stability Trends of Bimetallic Pt <sub>0.5</sub> M <sub>0.5</sub> Nanoparticle in Acid. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3971-3978	3.8	33
30	Influence of Strain on the Surface Oxygen Interaction and the Oxygen Evolution Reaction of SrIrO <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 4359-4364	3.8	30
29	Tailoring manganese oxide with atomic precision to increase surface site availability for oxygen reduction catalysis. <i>Nature Communications</i> , <b>2018</b> , 9, 4034	17.4	30
28	Mesoporous titanium and niobium nitrides as conductive and stable electrocatalyst supports in acid environments. <i>Chemical Communications</i> , <b>2017</b> , 53, 7250-7253	5.8	28
27	Chlorine evolution reaction electrocatalysis on RuO(110) and IrO(110) grown using molecular-beam epitaxy. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 041726	3.9	27
26	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	25
25	Selective Electrochemical CO <sub>2</sub> Reduction during Pulsed Potential Stems from Dynamic Interface. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8632-8639	13.1	24
24	Increased activity in hydrogen evolution electrocatalysis for partial anionic substitution in cobalt oxysulfide nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2842-2848	13	24
23	High index contrast photonic platforms for on-chip Raman spectroscopy. <i>Optics Express</i> , <b>2019</b> , 27, 23067-23079	3.3	24
22	Visible Light Photo-oxidation in Au Nanoparticle Sensitized SrTiO <sub>3</sub> :Nb Photoanode. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15532-15539	3.8	21
21	Searching for materials with high refractive index and wide band gap: A first-principles high-throughput study. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	20

20	SrCrN: A New Electride with a Partially Filled -Shell Transition Metal. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10595-10598	16.4	19
19	Predicting the Electrochemical Synthesis of 2D Materials from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3180-3187	3.8	18
18	Assessment of Soft Ligand Removal Strategies: Alkylation as a Promising Alternative to High-Temperature Treatments for Colloidal Nanoparticle Surfaces <b>2019</b> , 1, 177-184		13
17	Influence of 3d transition-metal substitution on the oxygen reduction reaction electrocatalysis of ternary nitrides in acid. <i>Nano Research</i> , <b>2019</b> , 12, 2307-2312	10	12
16	Pulse check: Potential opportunities in pulsed electrochemical CO <sub>2</sub> reduction. <i>Joule</i> , <b>2021</b> , 5, 1987-2026	27.8	11
15	Cr <sub>2</sub> O <sub>3</sub> Nanoparticle Decorated Carbon Nanofibers Derived from Solid Leather Wastes for High Performance Lithium-Sulfur Battery Separator Coating. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1671-A1676	3.9	10
14	Tertiary Hierarchical Complexity in Assemblies of Sulfur-Bridged Metal Chiral Clusters. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 14495-14503	16.4	10
13	In Situ Stimulated Raman Spectroscopy Reveals the Phosphate Network in the Amorphous Cobalt Oxide Catalyst and Its Role in the Catalyst Formation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 29284-29290	3.8	9
12	Materials Combining Asymmetric Pore Structures with Well-Defined Mesoporosity for Energy Storage and Conversion. <i>ACS Nano</i> , <b>2020</b> ,	16.7	7
11	Effect of Electrolyte Composition and Concentration on Pulsed Potential Electrochemical CO <sub>2</sub> Reduction. <i>ChemElectroChem</i> , <b>2021</b> , 8, 681-688	4.3	7
10	Temperature Effect of CO <sub>2</sub> Reduction Electrocatalysis on Copper: Potential Dependency of Activation Energy. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2020</b> , 17,	2	5
9	Cu(I) Reducibility Controls Ethylene vs Ethanol Selectivity on (100)-Textured Copper during Pulsed CO Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14050-14055	9.5	5
8	Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4006-4013	9.6	5
7	Enthalpy and entropy of oxygen electroadsorption on RuO(110) in alkaline media. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 094704	3.9	4
6	Phase-Sensitive Second-Harmonic Generation of Electrochemical Interfaces. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8216-8221	6.4	4
5	Influence of Aliovalent Substitutions on Oxygen Reduction on Tantalum Oxynitrides. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, F645-F650	3.9	3
4	Solute Incorporation at Oxide/Oxide Interfaces Explains How Ternary Mixed-Metal Oxide Nanocrystals Support Element-Specific Anisotropic Growth. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909054	15.6	1
3	Low-Loss Titanium Dioxide Waveguides for Integrated Evanescent Raman Spectroscopy <b>2015</b> ,		1

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| 2 | Iron and nitrogen-doped double gyroid mesoporous carbons for oxygen reduction in acidic environments. <i>JPhys Energy</i> , <b>2021</b> , 3, 015001  | 4.9 | o |
| 1 | Effect of substrate-induced lattice strain on the electrochemical properties of pulsed laser deposited nickel oxide thin film. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2022</b> , 280, 115711 | 3.1 | o |