

Kelsey A Stoerzinger

List of Publications by Year in descending order

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76
papers

9,333
citations

81743

39
h-index

71532

76
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82
all docs

82
docs citations

82
times ranked

10392
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward the rational design of non-precious transition metal oxides for oxygen electrocatalysis. <i>Energy and Environmental Science</i> , 2015, 8, 1404-1427.	15.6	1,628
2	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. <i>Nature Chemistry</i> , 2017, 9, 457-465.	6.6	1,409
3	Influence of Oxygen Evolution during Water Oxidation on the Surface of Perovskite Oxide Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3264-3270.	2.1	562
4	Orientation-Dependent Oxygen Evolution Activities of Rutile IrO_2 and RuO_2 . <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1636-1641.	2.1	466
5	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. <i>Energy and Environmental Science</i> , 2017, 10, 2190-2200.	15.6	401
6	Recent Insights into Manganese Oxides in Catalyzing Oxygen Reduction Kinetics. <i>ACS Catalysis</i> , 2015, 5, 6021-6031.	5.5	369
7	Structural Changes of Cobalt-Based Perovskites upon Water Oxidation Investigated by EXAFS. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8628-8635.	1.5	292
8	pH dependence of OER activity of oxides: Current and future perspectives. <i>Catalysis Today</i> , 2016, 262, 2-10.	2.2	288
9	Towards identifying the active sites on $\text{RuO}_2(110)$ in catalyzing oxygen evolution. <i>Energy and Environmental Science</i> , 2017, 10, 2626-2637.	15.6	278
10	Orientation-Dependent Oxygen Evolution on RuO_2 without Lattice Exchange. <i>ACS Energy Letters</i> , 2017, 2, 876-881.	8.8	251
11	$\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ Decorated with $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$: A Bifunctional Surface for Oxygen Electrocatalysis with Enhanced Stability and Activity. <i>Journal of the American Chemical Society</i> , 2014, 136, 5229-5232.	6.6	196
12	Tuning perovskite oxides by strain: Electronic structure, properties, and functions in (electro)catalysis and ferroelectricity. <i>Materials Today</i> , 2019, 31, 100-118.	8.3	169
13	Role of Strain and Conductivity in Oxygen Electrocatalysis on LaCoO_3 Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 487-492.	2.1	152
14	The Role of Ru Redox in pH-Dependent Oxygen Evolution on Rutile Ruthenium Dioxide Surfaces. <i>Chem</i> , 2017, 2, 668-675.	5.8	151
15	Nanoscale structural oscillations in perovskite oxides induced by oxygen evolution. <i>Nature Materials</i> , 2017, 16, 121-126.	13.3	149
16	Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. <i>Energy and Environmental Science</i> , 2013, 6, 1582.	15.6	146
17	Trends in Activity and Dissolution on RuO_2 under Oxygen Evolution Conditions: Particles versus Well-Defined Extended Surfaces. <i>ACS Energy Letters</i> , 2018, 3, 2045-2051.	8.8	144
18	Redox Processes of Manganese Oxide in Catalyzing Oxygen Evolution and Reduction: An <i>in Situ</i> Soft X-ray Absorption Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17682-17692.	1.5	138

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19	Tuning Bifunctional Oxygen Electrocatalysts by Changing the A-site Rare-Earth Element in Perovskite Nickelates. <i>Advanced Functional Materials</i> , 2018, 28, 1803712.	7.8	122
20	Highly Active Epitaxial $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Surfaces for the Oxygen Reduction Reaction: Role of Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1435-1440.	2.1	107
21	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8445-8454.	1.5	106
22	Insights into Electrochemical Reactions from Ambient Pressure Photoelectron Spectroscopy. <i>Accounts of Chemical Research</i> , 2015, 48, 2976-2983.	7.6	95
23	Tuning proton-coupled electron transfer by crystal orientation for efficient water oxidization on double perovskite oxides. <i>Nature Communications</i> , 2020, 11, 4299.	5.8	93
24	Reactivity of Perovskites with Water: Role of Hydroxylation in Wetting and Implications for Oxygen Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18504-18512.	1.5	88
25	Rotating Ring-Disk Electrode Study of Oxygen Evolution at a Perovskite Surface: Correlating Activity to Manganese Concentration. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27746-27756.	1.5	85
26	Water Reactivity on the LaCoO_3 (001) Surface: An Ambient Pressure X-ray Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19733-19741.	1.5	84
27	In Situ Spectroscopy and Mechanistic Insights into CO Oxidation on Transition-Metal-Substituted Ceria Nanoparticles. <i>ACS Catalysis</i> , 2017, 7, 6843-6857.	5.5	78
28	Tuning the Electronic Structure of LaNiO_3 through Alloying with Strontium to Enhance Oxygen Evolution Activity. <i>Advanced Science</i> , 2019, 6, 1901073.	5.6	76
29	Thickness-Dependent Photoelectrochemical Water Splitting on Ultrathin LaFeO_3 Films Grown on Nb:SrTiO_3 . <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 977-985.	2.1	75
30	Nanoparticle SERS substrates with 3D Raman-active volumes. <i>Chemical Science</i> , 2011, 2, 1435.	3.7	68
31	Aqueous phase catalytic and electrocatalytic hydrogenation of phenol and benzaldehyde over platinum group metals. <i>Journal of Catalysis</i> , 2020, 382, 372-384.	3.1	68
32	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO_3 Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12941-12947.	4.0	67
33	Influence of LaFeO_3 Surface Termination on Water Reactivity. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1038-1043.	2.1	60
34	Soft-template-carbonization route to highly textured mesoporous carbon-TiO ₂ inverse opals for efficient photocatalytic and photoelectrochemical applications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9023-9030.	1.3	56
35	Probing LaMO_3 Metal and Oxygen Partial Density of States Using X-ray Emission, Absorption, and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2063-2072.	1.5	56
36	Probing the Surface of Platinum during the Hydrogen Evolution Reaction in Alkaline Electrolyte. <i>Journal of Physical Chemistry B</i> , 2018, 122, 864-870.	1.2	50

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37	Dynamic Lattice Oxygen Participation on Perovskite LaNiO_3 during Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15386-15390.	1.5	49
38	Surface Orientation Dependent Water Dissociation on Rutile Ruthenium Dioxide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17802-17811.	1.5	44
39	The effect of oxygen vacancies on water wettability of transition metal based SrTiO_3 and rare-earth based Lu_2O_3 . <i>RSC Advances</i> , 2016, 6, 109234-109240.	1.7	40
40	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 290-296.	7.2	40
41	Decreasing the Hydroxylation Affinity of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Perovskites To Promote Oxygen Reduction Electrocatalysis. <i>Chemistry of Materials</i> , 2017, 29, 9990-9997.	3.2	37
42	Screening Nanopyramid Assemblies to Optimize Surface Enhanced Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1046-1050.	2.1	34
43	Hole-induced electronic and optical transitions in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1046-1050.	0.9	33
44	Understanding the Electronic Structure Evolution of Epitaxial $\text{LaNi}_{1-x}\text{Fe}_x\text{O}_3$ Thin Films for Water Oxidation. <i>Nano Letters</i> , 2021, 21, 8324-8331.	4.5	31
45	Near-Ambient Pressure XPS of High-Temperature Surface Chemistry in $\text{Sr}_2\text{Co}_2\text{O}_5$ Thin Films. <i>Topics in Catalysis</i> , 2016, 59, 574-582.	1.3	29
46	Stabilizing the Meniscus for Operando Characterization of Platinum During the Electrolyte-Consuming Alkaline Oxygen Evolution Reaction. <i>Topics in Catalysis</i> , 2018, 61, 2152-2160.	1.3	28
47	Linking surface chemistry to photovoltage in Sr-substituted LaFeO_3 for water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22170-22178.	5.2	27
48	Speciation and Electronic Structure of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ During Oxygen Electrolysis. <i>Topics in Catalysis</i> , 2018, 61, 2161-2174.	1.3	25
49	Correlation of nanoscale behaviour of forces and macroscale surface wettability. <i>Nanoscale</i> , 2016, 8, 15597-15603.	2.8	23
50	Visible Light Photo-oxidation in Au Nanoparticle Sensitized SrTiO_3 :Nb Photoanode. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15532-15539.	1.5	22
51	Rate enhancement by Cu in $\text{Ni}_x\text{Cu}_{1-x}/\text{ZrO}_2$ bimetallic catalysts for hydrodeoxygenation of stearic acid. <i>Catalysis Science and Technology</i> , 2019, 9, 2620-2629.	2.1	22
52	Reversibility of Ferri-/Ferrocyanide Redox during Operando Soft X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18903-18910.	1.5	20
53	The Effect of Surface Reconstruction on the Oxygen Reduction Reaction Properties of LaMnO_3 . <i>Journal of Physical Chemistry C</i> , 2019, 123, 11621-11627.	1.5	19
54	Band alignment and electrocatalytic activity at the $\text{La}_{0.88}\text{Sr}_{0.12}\text{FeO}_3/\text{SrTiO}_3(001)$ heterojunction. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	18

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55	Optimizing Oxygen Reduction Catalyst Morphologies from First Principles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16804-16810.	1.5	16
56	Understanding the Role of Surface Heterogeneities in Electrosynthesis Reactions. <i>IScience</i> , 2020, 23, 101814.	1.9	16
57	Impact of Sr Incorporation on Cr Oxidation and Water Dissociation in $\text{La}_{1-x}\text{Sr}_x\text{CrO}_3$. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701363.	1.9	13
58	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. <i>Angewandte Chemie</i> , 2021, 133, 294-300.	1.6	12
59	Epitaxial oxide thin films for oxygen electrocatalysis: A tutorial review. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 010801.	0.9	12
60	Impact of Ti Incorporation on Hydroxylation and Wetting of Fe_3O_4 . <i>Journal of Physical Chemistry C</i> , 2017, 121, 19288-19295.	1.5	10
61	Probing adsorbates on $\text{La}_{1-x}\text{Sr}_x\text{NiO}_3$ surfaces under humid conditions: implications for the oxygen evolution reaction. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 274003.	1.3	9
62	Effect of capping layers on the near-surface region of SrVO_3 films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	9
63	Breaking OER and CER scaling relations via strain and its relaxation in RuO_2 (101). <i>Materials Today Energy</i> , 2022, 28, 101087.	2.5	9
64	Chemical and electronic structure analysis of a SrTiO_3 (001)/p-Ge (001) hydrogen evolution photocathode. <i>MRS Communications</i> , 2018, 8, 446-452.	0.8	8
65	Structure, Magnetism, and the Interaction of Water with Ti-Doped Fe_3O_4 Surfaces. <i>Langmuir</i> , 2019, 35, 13872-13879.	1.6	6
66	Influence of strain on SrFeO_3 oxidation, reduction, and water dissociation: Insights from ambient pressure X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2020, 527, 146919.	3.1	6
67	Contribution of the Subsurface to Electrocatalytic Activity in Atomically Precise $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Heterostructures. <i>Small</i> , 2021, 17, e2103632.	5.2	4
68	Understanding Surface Reactivity of Amorphous Transition-Metal-Incorporated Aluminum Oxide Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27048-27054.	1.5	3
69	X-ray and electron spectroscopy of (photo)electrocatalysts: Understanding activity through electronic structure and adsorbate coverage. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	3
70	The Influence of Transitional Metal Dopants on Reducing Chlorine Evolution during the Electrolysis of Raw Seawater. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11911.	1.3	3
71	Understanding methanol dissociative adsorption and oxidation on amorphous oxide films. <i>Faraday Discussions</i> , 2022, 236, 58-70.	1.6	2
72	Probing the Solid/Gas and Solid/Liquid Interface of Electrocatalysts with Ambient-Pressure X-ray Photoelectron Spectroscopy. <i>Synchrotron Radiation News</i> , 2020, 33, 13-16.	0.2	1

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73	(Invited) Probing the Electronic Structure of Oxide Electrocatalysts and the Formation of Reaction Intermediates. ECS Meeting Abstracts, 2021, MA2021-01, 1972-1972.	0.0	0
74	Speciation and Electronic Structure of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ during Oxygen Evolution. ECS Meeting Abstracts, 2018, .	0.0	0
75	(Invited) Electrocatalytic Reduction of Nitrate: Insight from Manipulating Adsorbate Affinity. ECS Meeting Abstracts, 2022, MA2022-01, 1797-1797.	0.0	0
76	(Digital Presentation) Role of Electronic Structure on Nitrate Reduction to Ammonium: A Periodic Journey. ECS Meeting Abstracts, 2022, MA2022-01, 1801-1801.	0.0	0