Kelsey A Stoerzinger

List of Publications by Year
in descending order

76 papers	9,333 citations	81900 39 h-index	71685 76 g-index
82 all docs	82 docs citations	82 times ranked	10392 citing authors

#	Article	IF	Citations
1	Effect of capping layers on the near-surface region of SrVO3 films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	9
2	Epitaxial oxide thin films for oxygen electrocatalysis: A tutorial review. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 010801.	2.1	12
3	Understanding methanol dissociative adsorption and oxidation on amorphous oxide films. Faraday Discussions, 2022, 236, 58-70.	3.2	2
4	(Invited) Electrocatalytic Reduction of Nitrate: Insight from Manipulating Adsorbate Affinity. ECS Meeting Abstracts, 2022, MA2022-01, 1797-1797.	0.0	0
5	(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
6	Breaking OER and CER scaling relations via strain and its relaxation in RuO2 (101). Materials Today Energy, 2022, 28, 101087.	4.7	9
7	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. Angewandte Chemie, 2021, 133, 294-300.	2.0	12
8	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. Angewandte Chemie - International Edition, 2021, 60, 290-296.	13.8	40
9	Probing adsorbates on La1âˆ'x Sr x NiO3âˆ'Î´ surfaces under humid conditions: implications for the oxygen evolution reaction. Journal Physics D: Applied Physics, 2021, 54, 274003.	2.8	9
10	(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
11	X-ray and electron spectroscopy of (photo)electrocatalysts: Understanding activity through electronic structure and adsorbate coverage. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	3
12	Understanding the Electronic Structure Evolution of Epitaxial LaNi_{1â€"<i>x</i>}Fe_{<i>x</i>}O₃ Thin Films for Water Oxidation. Nano Letters, 2021, 21, 8324-8331.	9.1	31
13	Contribution of the Subâ€Surface to Electrocatalytic Activity in Atomically Precise La_{0.7}Sr_{0.3}MnO₃ Heterostructures. Small, 2021, 17, e2103632.	10.0	4
14	The Influence of Transitional Metal Dopants on Reducing Chlorine Evolution during the Electrolysis of Raw Seawater. Applied Sciences (Switzerland), 2021, 11, 11911.	2.5	3
15	Probing the Solid/Gas and Solid/Liquid Interface of Electrocatalysts with Ambient-Pressure X-ray Photoelectron Spectroscopy. Synchrotron Radiation News, 2020, 33, 13-16.	0.8	1
16	Tuning proton-coupled electron transfer by crystal orientation for efficient water oxidization on double perovskite oxides. Nature Communications, 2020, 11, 4299.	12.8	93
17	Understanding the Role of Surface Heterogeneities in Electrosynthesis Reactions. IScience, 2020, 23, 101814.	4.1	16
18	Dynamic Lattice Oxygen Participation on Perovskite LaNiO₃ during Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2020, 124, 15386-15390.	3.1	49

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19	Influence of strain on SrFeO3-Î´ oxidation, reduction, and water dissociation: Insights from ambient pressure X-ray photoelectron spectroscopy. Applied Surface Science, 2020, 527, 146919.	6.1	6
20	Aqueous phase catalytic and electrocatalytic hydrogenation of phenol and benzaldehyde over platinum group metals. Journal of Catalysis, 2020, 382, 372-384.	6.2	68
21	Tuning the Electronic Structure of LaNiO₃ through Alloying with Strontium to Enhance Oxygen Evolution Activity. Advanced Science, 2019, 6, 1901073.	11.2	76
22	Structure, Magnetism, and the Interaction of Water with Ti-Doped Fe3O4 Surfaces. Langmuir, 2019, 35, 13872-13879.	3.5	6
23	Understanding Surface Reactivity of Amorphous Transition-Metal-Incorporated Aluminum Oxide Thin Films. Journal of Physical Chemistry C, 2019, 123, 27048-27054.	3.1	3
24	Tuning perovskite oxides by strain: Electronic structure, properties, and functions in (electro)catalysis and ferroelectricity. Materials Today, 2019, 31, 100-118.	14.2	169
25	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO₃ Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 12941-12947.	8.0	67
26	Rate enhancement by Cu in Ni_xCu_{1â^'x}/ZrO₂ bimetallic catalysts for hydrodeoxygenation of stearic acid. Catalysis Science and Technology, 2019, 9, 2620-2629.	4.1	22
27	The Effect of Surface Reconstruction on the Oxygen Reduction Reaction Properties of LaMnO₃. Journal of Physical Chemistry C, 2019, 123, 11621-11627.	3.1	19
28	Hole-induced electronic and optical transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></r mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>Fe</mml:mi><mml:msub><mml:mi	2.4	33
29	Chemical and electronic structure analysis of a SrTiO3 (001)/p-Ge (001) hydrogen evolution photocathode. MRS Communications, 2018, 8, 446-452.	1.8	8
30	Impact of Srâ€Incorporation on Cr Oxidation and Water Dissociation in La_{(1â€"}<i>_x</i>₎Sr<i>_x</i>CrO₃. Advanced Materials Interfaces, 2018, 5, 1701363.	3.7	13
31	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.1	106
32	Probing the Surface of Platinum during the Hydrogen Evolution Reaction in Alkaline Electrolyte. Journal of Physical Chemistry B, 2018, 122, 864-870.	2.6	50
33	Stabilizing the Meniscus for Operando Characterization of Platinum During the Electrolyte-Consuming Alkaline Oxygen Evolution Reaction. Topics in Catalysis, 2018, 61, 2152-2160.	2.8	28
34	Speciation and Electronic Structure of La1â^'xSrxCoO3â^'Î´ During Oxygen Electrolysis. Topics in Catalysis, 2018, 61, 2161-2174.	2.8	25
35	Band alignment and electrocatalytic activity at the <i>p</i>-<i>n</i> La0.88Sr0.12FeO3/SrTiO3(001) heterojunction. Applied Physics Letters, 2018, 112, .	3.3	18
36	Trends in Activity and Dissolution on RuO₂ under Oxygen Evolution Conditions: Particles versus Well-Defined Extended Surfaces. ACS Energy Letters, 2018, 3, 2045-2051.	17.4	144

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37	Tuning Bifunctional Oxygen Electrocatalysts by Changing the Aâ€Site Rareâ€Earth Element in Perovskite Nickelates. Advanced Functional Materials, 2018, 28, 1803712.	14.9	122
38	Surface Orientation Dependent Water Dissociation on Rutile Ruthenium Dioxide. Journal of Physical Chemistry C, 2018, 122, 17802-17811.	3.1	44
39	Linking surface chemistry to photovoltage in Sr-substituted LaFeO₃ for water oxidation. Journal of Materials Chemistry A, 2018, 6, 22170-22178.	10.3	27
40	Speciation and Electronic Structure of La1 -XSrxCoO3 -Î” during Oxygen Evolution. ECS Meeting Abstracts, 2018, , .	0.0	0
41	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. Nature Chemistry, 2017, 9, 457-465.	13.6	1,409
42	Influence of LaFeO₃ Surface Termination on Water Reactivity. Journal of Physical Chemistry Letters, 2017, 8, 1038-1043.	4.6	60
43	Orientation-Dependent Oxygen Evolution on RuO₂ without Lattice Exchange. ACS Energy Letters, 2017, 2, 876-881.	17.4	251
44	Impact of Ti Incorporation on Hydroxylation and Wetting of Fe₃O₄. Journal of Physical Chemistry C, 2017, 121, 19288-19295.	3.1	10
45	In Situ Spectroscopy and Mechanistic Insights into CO Oxidation on Transition-Metal-Substituted Ceria Nanoparticles. ACS Catalysis, 2017, 7, 6843-6857.	11.2	78
46	The Role of Ru Redox in pH-Dependent Oxygen Evolution on Rutile Ruthenium Dioxide Surfaces. CheM, 2017, 2, 668-675.	11.7	151
47	Redox Processes of Manganese Oxide in Catalyzing Oxygen Evolution and Reduction: An <i>in Situ</i> Soft X-ray Absorption Spectroscopy Study. Journal of Physical Chemistry C, 2017, 121, 17682-17692.	3.1	138
48	Towards identifying the active sites on RuO₂(110) in catalyzing oxygen evolution. Energy and Environmental Science, 2017, 10, 2626-2637.	30.8	278
49	Decreasing the Hydroxylation Affinity of La_{1â€“<i>x</i>}Sr_{<i>x</i>}MnO₃ Perovskites To Promote Oxygen Reduction Electrocatalysis. Chemistry of Materials, 2017, 29, 9990-9997.	6.7	37
50	Nanoscale structural oscillations in perovskite oxides induced by oxygen evolution. Nature Materials, 2017, 16, 121-126.	27.5	149
51	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. Energy and Environmental Science, 2017, 10, 2190-2200.	30.8	401
52	Correlation of nanoscale behaviour of forces and macroscale surface wettability. Nanoscale, 2016, 8, 15597-15603.	5.6	23
53	Rotating Ringâ€“Disk Electrode Study of Oxygen Evolution at a Perovskite Surface: Correlating Activity to Manganese Concentration. Journal of Physical Chemistry C, 2016, 120, 27746-27756.	3.1	85
54	The effect of oxygen vacancies on water wettability of transition metal based SrTiO₃ and rare-earth based Lu₂O₃. RSC Advances, 2016, 6, 109234-109240.	3.6	40

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55	Near-Ambient Pressure XPS of High-Temperature Surface Chemistry in Sr2Co2O5 Thin Films. Topics in Catalysis, 2016, 59, 574-582.	2.8	29
56	pH dependence of OER activity of oxides: Current and future perspectives. Catalysis Today, 2016, 262, 2-10.	4.4	288
57	Probing LaMO₃ Metal and Oxygen Partial Density of States Using X-ray Emission, Absorption, and Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 2063-2072.	3.1	56
58	Role of Strain and Conductivity in Oxygen Electrocatalysis on LaCoO₃ Thin Films. Journal of Physical Chemistry Letters, 2015, 6, 487-492.	4.6	152
59	Reactivity of Perovskites with Water: Role of Hydroxylation in Wetting and Implications for Oxygen Electrocatalysis. Journal of Physical Chemistry C, 2015, 119, 18504-18512.	3.1	88
60	Reversibility of Ferri-/Ferrocyanide Redox during Operando Soft X-ray Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 18903-18910.	3.1	20
61	Optimizing Oxygen Reduction Catalyst Morphologies from First Principles. Journal of Physical Chemistry C, 2015, 119, 16804-16810.	3.1	16
62	Toward the rational design of non-precious transition metal oxides for oxygen electrocatalysis. Energy and Environmental Science, 2015, 8, 1404-1427.	30.8	1,628
63	Thickness-Dependent Photoelectrochemical Water Splitting on Ultrathin LaFeO₃ Films Grown on Nb:SrTiO₃. Journal of Physical Chemistry Letters, 2015, 6, 977-985.	4.6	75
64	Highly Active Epitaxial La_(1â€“<i>x</i>)Sr_{<i>x</i>}MnO₃ Surfaces for the Oxygen Reduction Reaction: Role of Charge Transfer. Journal of Physical Chemistry Letters, 2015, 6, 1435-1440.	4.6	107
65	Insights into Electrochemical Reactions from Ambient Pressure Photoelectron Spectroscopy. Accounts of Chemical Research, 2015, 48, 2976-2983.	15.6	95
66	Recent Insights into Manganese Oxides in Catalyzing Oxygen Reduction Kinetics. ACS Catalysis, 2015, 5, 6021-6031.	11.2	369
67	Soft-template-carbonization route to highly textured mesoporous carbonâ€“TiO₂ inverse opals for efficient photocatalytic and photoelectrochemical applications. Physical Chemistry Chemical Physics, 2014, 16, 9023-9030.	2.8	56
68	Orientation-Dependent Oxygen Evolution Activities of Rutile IrO₂ and RuO₂. Journal of Physical Chemistry Letters, 2014, 5, 1636-1641.	4.6	466
69	La_{0.8}Sr_{0.2}MnO_{3âˆ'Î´} Decorated with Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3âˆ'Î´}: A Bifunctional Surface for Oxygen Electrocatalysis with Enhanced Stability and Activity. Journal of the American Chemical Society, 2014, 136, 5229-5232.	13.7	196
70	Water Reactivity on the LaCoO₃ (001) Surface: An Ambient Pressure X-ray Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2014, 118, 19733-19741.	3.1	84
71	Visible Light Photo-oxidation in Au Nanoparticle Sensitized SrTiO₃:Nb Photoanode. Journal of Physical Chemistry C, 2013, 117, 15532-15539.	3.1	22
72	Structural Changes of Cobalt-Based Perovskites upon Water Oxidation Investigated by EXAFS. Journal of Physical Chemistry C, 2013, 117, 8628-8635.	3.1	292

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73	Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. Energy and Environmental Science, 2013, 6, 1582.	30.8	146
74	Influence of Oxygen Evolution during Water Oxidation on the Surface of Perovskite Oxide Catalysts. Journal of Physical Chemistry Letters, 2012, 3, 3264-3270.	4.6	562
75	Nanoparticle SERS substrates with 3D Raman-active volumes. Chemical Science, 2011, 2, 1435.	7.4	68
76	Screening Nanopyramid Assemblies to Optimize Surface Enhanced Raman Scattering. Journal of Physical Chemistry Letters, 2010, 1, 1046-1050.	4.6	34