

Adam Holewinski

List of Publications by Year in descending order

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29
papers

1,913
citations

430874

18
h-index

477307

29
g-index

34
all docs

34
docs citations

34
times ranked

3106
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance Ag-Co alloy catalysts for electrochemical oxygen reduction. <i>Nature Chemistry</i> , 2014, 6, 828-834.	13.6	383
2	Elementary Mechanisms in Electrocatalysis: Revisiting the ORR Tafel Slope. <i>Journal of the Electrochemical Society</i> , 2012, 159, H864-H870.	2.9	300
3	Controlling Carbon Surface Chemistry by Alloying: A Carbon Tolerant Reforming Catalyst. <i>Journal of the American Chemical Society</i> , 2006, 128, 11354-11355.	13.7	172
4	Linking CO ₂ Sorption Performance to Polymer Morphology in Aminopolymer/Silica Composites through Neutron Scattering. <i>Journal of the American Chemical Society</i> , 2015, 137, 11749-11759.	13.7	131
5	Electrochemical Routes for the Valorization of Biomass-Derived Feedstocks: From Chemistry to Application. <i>ACS Energy Letters</i> , 0, , 1205-1270.	17.4	130
6	Predictive Structure-Reactivity Models for Rapid Screening of Pt-Based Multimetallic Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012, 2, 12-16.	11.2	127
7	Elucidating Acidic Electro-Oxidation Pathways of Furfural on Platinum. <i>ACS Catalysis</i> , 2019, 9, 10305-10316.	11.2	85
8	Electronic Structure Engineering in Heterogeneous Catalysis: Identifying Novel Alloy Catalysts Based on Rapid Screening for Materials with Desired Electronic Properties. <i>Topics in Catalysis</i> , 2012, 55, 376-390.	2.8	80
9	Identifying optimal active sites for heterogeneous catalysis by metal alloys based on molecular descriptors and electronic structure engineering. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 312-319.	7.8	54
10	Prospects of Platinum-Based Nanostructures for the Electrocatalytic Reduction of Oxygen. <i>ACS Catalysis</i> , 2018, 8, 9388-9398.	11.2	52
11	Selective Interactions between Free-Atom-like <i>d</i> -States in Single-Atom Alloy Catalysts and Near-Frontier Molecular Orbitals. <i>Journal of the American Chemical Society</i> , 2021, 143, 11897-11902.	13.7	43
12	Decomposition of Trace Li ₂ CO ₃ During Charging Leads to Cathode Interface Degradation with the Solid Electrolyte LLZO. <i>Advanced Functional Materials</i> , 2021, 31, 2103716.	14.9	38
13	Density functional theory study of furfural electrochemical oxidation on the Pt (111) surface. <i>Journal of Catalysis</i> , 2019, 373, 322-335.	6.2	37
14	Aminopolymer Mobility and Support Interactions in Silica-PEI Composites for CO ₂ Capture Applications: A Quasielastic Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6721-6731.	2.6	30
15	Electro-oxidation of furfural on gold is limited by furoate self-assembly. <i>Journal of Catalysis</i> , 2020, 391, 327-335.	6.2	30
16	Understanding the interplay of bifunctional and electronic effects: Microkinetic modeling of the CO electro-oxidation reaction. <i>Journal of Catalysis</i> , 2020, 384, 1-13.	6.2	27
17	Probing the Role of Zr Addition versus Textural Properties in Enhancement of CO ₂ Adsorption Performance in Silica/PEI Composite Sorbents. <i>Langmuir</i> , 2015, 31, 9356-9365.	3.5	26
18	Cathode Interface Compatibility of Amorphous LiMn ₂ O ₄ (LMO) and Li ₇ La ₃ Zr ₂ O ₁₂ (LLZO) Characterized with Thin-Film Solid-State Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24992-24999.	8.0	26

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19	Identifying "Optimal" Electrocatalysts: Impact of Operating Potential and Charge Transfer Model. ACS Catalysis, 2017, 7, 8641-8652.	11.2	21
20	Unraveling the Dynamics of Aminopolymer/Silica Composites. Langmuir, 2016, 32, 2617-2625.	3.5	17
21	Highly stable dioxin-linked metallophthalocyanine covalent organic frameworks. Chinese Chemical Letters, 2021, 32, 3799-3802.	9.0	17
22	Predicting macro-kinetic observables in electrocatalysis using the generalized degree of rate control. Journal of Catalysis, 2021, 397, 233-244.	6.2	17
23	Microkinetic modeling in electrocatalysis: Applications, limitations, and recommendations for reliable mechanistic insights. Journal of Catalysis, 2021, 404, 864-872.	6.2	16
24	ATR-SEIRAS Investigation of the Electro-oxidation Mechanism of Biomass-Derived C ₅ Furanics on Platinum Electrodes. Journal of Physical Chemistry C, 2022, 126, 7054-7065.	3.1	13
25	Insight into the Oxidation Mechanism of Furanic Compounds on Pt(111). ACS Catalysis, 2019, 9, 11360-11370.	11.2	10
26	Tuning the selectivity of electrochemical levulinic acid reduction to 4-hydroxyvaleric acid: a monomer for biocompatible and biodegradable plastics. Green Chemistry, 2021, 23, 9154-9164.	9.0	10
27	Accelerating Electro-oxidation Turnover Rates via Potential-Modulated Stimulation of Electrocatalytic Activity. Industrial & Engineering Chemistry Research, 2020, 59, 19999-20010.	3.7	8
28	Electrochemical reduction selectivity of crotonaldehyde on copper. Journal of Applied Electrochemistry, 2021, 51, 5-17.	2.9	5
29	Investigating the use of conducting oligomers and redox molecules in CdS@MoFeP biohybrids. Nanoscale Advances, 2021, 3, 1392-1396.	4.6	2