

A Jeremy Kropf

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,673
citations

304743

22
h-index

214800

47
g-index

51
all docs

51
docs citations

51
times ranked

4458
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly active atomically dispersed CoN ₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. <i>Energy and Environmental Science</i> , 2019, 12, 250-260.	30.8	691
2	Performance enhancement and degradation mechanism identification of a single-atom Co-N-C catalyst for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2020, 3, 1044-1054.	34.4	443
3	A stable low-temperature H ₂ -production catalyst by crowding Pt on Î±-MoC. <i>Nature</i> , 2021, 589, 396-401.	27.8	290
4	Atomically dispersed iron sites with a nitrogen-carbon coating as highly active and durable oxygen reduction catalysts for fuel cells. <i>Nature Energy</i> , 2022, 7, 652-663.	39.5	258
5	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. <i>Nature Communications</i> , 2014, 5, 5693.	12.8	255
6	Evolution Pathway from Iron Compounds to Fe ₁ (II)-N ₄ Sites through Gas-Phase Iron during Pyrolysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 1417-1423.	13.7	185
7	Zinc Promotion of Platinum for Catalytic Light Alkane Dehydrogenation: Insights into Geometric and Electronic Effects. <i>ACS Catalysis</i> , 2017, 7, 4173-4181.	11.2	168
8	Atomically dispersed single iron sites for promoting Pt and Pt ₃ Co fuel cell catalysts: performance and durability improvements. <i>Energy and Environmental Science</i> , 2021, 14, 4948-4960.	30.8	168
9	Single-Atom Alloy Pd-Ag Catalyst for Selective Hydrogenation of Acrolein. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18140-18148.	3.1	150
10	Fischer-Tropsch Synthesis: An In-Situ TPR-EXAFS/XANES Investigation of the Influence of Group I Alkali Promoters on the Local Atomic and Electronic Structure of Carburized Iron/Silica Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7895-7903.	3.1	138
11	Stability of iron species in heat-treated polyaniline-iron-carbon polymer electrolyte fuel cell cathode catalysts. <i>Electrochimica Acta</i> , 2013, 110, 282-291.	5.2	138
12	Dynamically Unveiling Metal-Nitrogen Coordination during Thermal Activation to Design Highly Efficient Atomically Dispersed CoN ₄ Active Sites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9516-9526.	13.8	119
13	Atomically Precise Strategy to a PtZn Alloy Nanocluster Catalyst for the Deep Dehydrogenation of <i>n</i> -Butane to 1,3-Butadiene. <i>ACS Catalysis</i> , 2018, 8, 10058-10063.	11.2	67
14	Fischer-Tropsch Synthesis: Influence of Mn on the Carburization Rates and Activities of Fe-Based Catalysts by TPR-EXAFS/XANES and Catalyst Testing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4783-4792.	3.1	56
15	Intermetallic Compounds as an Alternative to Single-Atom Alloy Catalysts: Geometric and Electronic Structures from Advanced X-ray Spectroscopies and Computational Studies. <i>ChemCatChem</i> , 2020, 12, 1325-1333.	3.7	50
16	Promotion of Pd nanoparticles by Fe and formation of a Pd ₃ Fe intermetallic alloy for propane dehydrogenation. <i>Catalysis Today</i> , 2019, 323, 123-128.	4.4	42
17	Origin of Electronic Modification of Platinum in a Pt ₃ V Alloy and Its Consequences for Propane Dehydrogenation Catalysis. <i>ACS Applied Energy Materials</i> , 2020, 3, 1410-1422.	5.1	41
18	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , 2016, 16, 781-785.	9.1	39

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19	Evidence for Redox Mechanisms in Organometallic Chemisorption and Reactivity on Sulfated Metal Oxides. <i>Journal of the American Chemical Society</i> , 2018, 140, 6308-6316.	13.7	34
20	Surface Organometallic Chemistry of Supported Iridium(III) as a Probe for Organotransition Metal-Support Interactions in C-H Activation. <i>ACS Catalysis</i> , 2018, 8, 5363-5373.	11.2	29
21	In situ intermediate-energy X-ray catalysis research at the advanced photon source beamline 9-BM. <i>Catalysis Today</i> , 2013, 205, 141-147.	4.4	27
22	Effect of sodium loading on Pt/ZrO ₂ during ethanol steam reforming. <i>Applied Catalysis A: General</i> , 2021, 610, 117947.	4.3	27
23	Water-gas shift: Characterization and testing of nanoscale YSZ supported Pt catalysts. <i>Applied Catalysis A: General</i> , 2015, 497, 184-197.	4.3	21
24	Dynamically Unveiling Metal-Nitrogen Coordination during Thermal Activation to Design Highly Efficient Atomically Dispersed CoN ₄ Active Sites. <i>Angewandte Chemie</i> , 2021, 133, 9602-9612.	2.0	21
25	The effect of strong metal-support interaction (SMSI) on Pt-Ti/SiO ₂ and Pt-Nb/SiO ₂ catalysts for propane dehydrogenation. <i>Catalysis Science and Technology</i> , 2020, 10, 5973-5982.	4.1	19
26	Low-Temperature Water-Gas Shift: Doping Ceria Improves Reducibility and Mobility of O-Bound Species and Catalyst Activity. <i>Catalysis Letters</i> , 2011, 141, 1723-1731.	2.6	15
27	Low temperature water-gas shift: Optimization of K loading on Pt/m-ZrO ₂ for enhancing CO conversion. <i>Applied Catalysis A: General</i> , 2020, 598, 117572.	4.3	15
28	Structural and Catalytic Properties of Isolated Pt ²⁺ Sites in Platinum Phosphide (PtP ₂). <i>ACS Catalysis</i> , 2021, 11, 13496-13509.	11.2	15
29	Selective Butene Formation in Direct Ethanol-to-C ₃₊ -Olefin Valorization over Zn-Y/Beta and Single-Atom Alloy Composite Catalysts Using In Situ-Generated Hydrogen. <i>ACS Catalysis</i> , 2021, 11, 7193-7209.	11.2	13
30	Design and synthesis of model and practical palladium catalysts using atomic layer deposition. <i>Catalysis Science and Technology</i> , 2016, 6, 6845-6852.	4.1	11
31	Revealing the Configuration and Conformation of Surface Organometallic Catalysts with DNP-Enhanced NMR. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13433-13442.	3.1	11
32	Single Atomic Iron Site Catalysts via Benign Aqueous Synthesis for Durability Improvement in Proton Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044501.	2.9	10
33	CO ₂ hydrogenation: Selectivity control of CO versus CH ₄ achieved using Na doping over Ru/m-ZrO ₂ at low pressure. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121533.	20.2	9
34	Activation of Low-Valent, Multiply M-Bonded Group VI Dimers toward Catalytic Olefin Metathesis via Surface Organometallic Chemistry. <i>Organometallics</i> , 2020, 39, 1035-1045.	2.3	8
35	Low Temperature Water-Gas Shift: Enhancing Stability through Optimizing Rb Loading on Pt/ZrO ₂ . <i>Catalysts</i> , 2021, 11, 210.	3.5	8
36	Low temperature ethanol steam reforming: Selectivity control with lithium doping of Pt/m-ZrO ₂ . <i>Catalysis Today</i> , 2022, 402, 335-349.	4.4	8

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37	Synergetic effect on catalytic activity and charge transfer in Pt-Pd bimetallic model catalysts prepared by atomic layer deposition. <i>Journal of Chemical Physics</i> , 2020, 152, 024710.	3.0	7
38	Influence of Cs Loading on Pt/m-ZrO ₂ Water-Gas Shift Catalysts. <i>Catalysts</i> , 2021, 11, 570.	3.5	7
39	Integrated Experimental and Computational K-Edge X-ray Absorption Near-Edge Structure Analysis of Vanadium Catalysts. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11949-11962.	3.1	7
40	Aromatic C-H bond cleavage by using a Cu(I) ate-complex. <i>Organic Chemistry Frontiers</i> , 2016, 3, 975-978.	4.5	6
41	Promoting the Selectivity of Pt/m-ZrO ₂ Ethanol Steam Reforming Catalysts with K and Rb Dopants. <i>Nanomaterials</i> , 2021, 11, 2233.	4.1	6
42	Influence of Cs Promoter on Ethanol Steam-Reforming Selectivity of Pt/m-ZrO ₂ Catalysts at Low Temperature. <i>Catalysts</i> , 2021, 11, 1104.	3.5	6
43	Lithium promotion of Pt/m-ZrO ₂ catalysts for low temperature water-gas shift. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 30872-30895.	7.1	6
44	Lithium-Ion Battery Materials as Tunable, Redox Non-Innocent Catalyst Supports. <i>ACS Catalysis</i> , 0, , 7233-7242.	11.2	6
45	<i>In situ</i> S/TEM Reactions of Ag/ZrO ₂ /SBA-16 Catalysts for Single-Step Conversion of Ethanol to Butadiene. <i>Microscopy and Microanalysis</i> , 2019, 25, 1460-1461.	0.4	4
46	Phosphorus Atom Transfer from Phosphaethynolate to an Alkylidyne. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24411-24417.	13.8	4
47	In Situ S/TEM Reduction Reaction of Ni-Mo ₂ C Catalyst for Biomass Conversion. <i>Microscopy and Microanalysis</i> , 2018, 24, 322-323.	0.4	1
48	P Atom Transfer from Phosphaethynolate to an Alkylidyne.. <i>Angewandte Chemie</i> , 0, , .	2.0	1
49	Chemical Effects at the Reaction Front in Corroding Spent Nuclear Fuel. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	0
50	(Invited) In Situ and Operando Synchrotron X-Ray Spectroscopy and Scattering Characterization of PEFC Cathode Catalysts. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1962-1962.	0.0	0