

Jeong Woo Han

List of Publications by Year in descending order

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205
papers

10,023
citations

34105

52
h-index

45317

90
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217
all docs

217
docs citations

217
times ranked

11134
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Surface Evolution of Metal Oxides for Autonomous Adaptation to Catalytic Reaction Environments. <i>Advanced Materials</i> , 2023, 35, .	21.0	1
2	Alleviating inhibitory effect of H ₂ on low-temperature water-gas shift reaction activity of Pt/CeO ₂ catalyst by forming CeO ₂ nano-patches on Pt nano-particles. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121038.	20.2	11
3	Precisely Constructing Orbital Coupling-Modulated Dual-Atom Fe Pair Sites for Synergistic CO ₂ Electroreduction. <i>ACS Energy Letters</i> , 2022, 7, 640-649.	17.4	127
4	Continuous Oxygen Vacancy Gradient in TiO ₂ Photoelectrodes by a Photoelectrochemical-Driven Self-Purification Process. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	42
5	Universally characterizing atomistic strain via simulation, statistics, and machine learning: Low-angle grain boundaries. <i>Acta Materialia</i> , 2022, 226, 117635.	7.9	5
6	Structural changes of hydrotalcite-based Co-containing mixed oxides with calcination temperature and their effects on NO _x adsorption: A combined experimental and DFT study. <i>Chemical Engineering Journal</i> , 2022, 437, 135209.	12.7	6
7	Utilization of an Isovalent Doping Strategy in Cobalt-Free Ferrites for Highly Active and Stable Solid Oxide Fuel Cell Cathodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 3417-3425.	5.1	6
8	Boosting Support Reducibility and Metal Dispersion by Exposed Surface Atom Control for Highly Active Supported Metal Catalysts. <i>ACS Catalysis</i> , 2022, 12, 4402-4414.	11.2	19
9	Computational Screening of Single-Metal-Atom Embedded Graphene-Based Electrocatalysts Stabilized by Heteroatoms. <i>Frontiers in Chemistry</i> , 2022, 10, 873609.	3.6	6
10	Metal-nitrogen-carbon-based nanozymes: advances and perspectives. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 323001.	2.8	6
11	High-performance hysteresis-free perovskite transistors through anion engineering. <i>Nature Communications</i> , 2022, 13, 1741.	12.8	51
12	Surface Roughening Strategy for Highly Efficient Bifunctional Electrocatalyst: Combination of Atomic Layer Deposition and Anion Exchange Reaction. <i>Small Methods</i> , 2022, 6, e2101308.	8.6	15
13	Rational Development of Co-Doped Mesoporous Ceria with High Peroxidase-Mimicking Activity at Neutral pH for Paper-Based Colorimetric Detection of Multiple Biomarkers. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	39
14	Precise control of surface oxygen vacancies in ZnO nanoparticles for extremely high acetone sensing response. <i>Journal of Advanced Ceramics</i> , 2022, 11, 769-783.	17.4	33
15	Crystal Facet-Manipulated 2D Pt Nanodendrites to Achieve an Intimate Heterointerface for Hydrogen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 9033-9043.	13.7	53
16	Titanium Monoxide with <i>in Situ</i> Grown Rutile TiO ₂ Nanothorns as a Heterostructured Job-Sharing Anode Material for Lithium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 5691-5703.	5.1	5
17	Concurrent promotion of phase transition and bimetallic nanocatalyst exsolution in perovskite oxides driven by Pd doping to achieve highly active bifunctional fuel electrodes for reversible solid oxide electrochemical cells. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121517.	20.2	16
18	Precise Modulation of Triple-Phase Boundaries towards a Highly Functional Exsolved Catalyst for Dry Reforming of Methane under a Dilution-Free System. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2

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19	Precise Modulation of Triple-Phase Boundaries towards a Highly Functional Exsolved Catalyst for Dry Reforming of Methane under a Dilution-Free System. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
20	Manipulating the Resistive Switching in Epitaxial SrCoO _{2.5} Thin-Film-Based Memristors by Strain Engineering. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2729-2738.	4.3	5
21	Role of an Interface for Hydrogen Production Reaction over Size-Controlled Supported Metal Catalysts. <i>ACS Catalysis</i> , 2022, 12, 8082-8093.	11.2	9
22	Tuning electrochemical water oxidation towards ozone evolution with heterojunction anode architectures. <i>Journal of Materials Chemistry A</i> , 2022, 10, 17132-17141.	10.3	3
23	Promoting biomass electrooxidation via modulating proton and oxygen anion deintercalation in hydroxide. <i>Nature Communications</i> , 2022, 13, .	12.8	60
24	Adenine oligomer directed synthesis of chiral gold nanoparticles. <i>Nature Communications</i> , 2022, 13, .	12.8	31
25	Design of grain boundary enriched bimetallic borides for enhanced hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126977.	12.7	56
26	Key Roles of Trace Oxygen Treatment for High-Performance Zn-Doped CuI p-Channel Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, .	5.1	17
27	Corrosion-engineered bimetallic oxide electrode as anode for high-efficiency anion exchange membrane water electrolyzer. <i>Chemical Engineering Journal</i> , 2021, 420, 127670.	12.7	51
28	Interface-modulated uniform outer nanolayer: A category of electrodes of nanolayer-encapsulated core-shell configuration for supercapacitors. <i>Nano Energy</i> , 2021, 81, 105667.	16.0	48
29	Unprecedented electrocatalytic oxygen evolution performances by cobalt-incorporated molybdenum carbide microflowlers with controlled charge re-distribution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1770-1783.	10.3	13
30	Mechanistic insights into the phase transition and metal ex-solution phenomena of Pr _{0.5} Ba _{0.5} Mn _{0.85} Co _{0.15} O _{3-δ} from simple to layered perovskite under reducing conditions and enhanced catalytic activity. <i>Energy and Environmental Science</i> , 2021, 14, 873-882.	30.8	37
31	Reconstructing the Coordination Environment of Platinum Single-Atom Active Sites for Boosting Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021, 11, 466-475.	11.2	62
32	Tailoring Binding Abilities by Incorporating Oxophilic Transition Metals on 3D Nanostructured Ni Arrays for Accelerated Alkaline Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 1399-1408.	13.7	161
33	Ultrathin and Bifunctional Polymer-Nanolayer-Embedded Separator to Simultaneously Alleviate Li Dendrite Growth and Polysulfide Crossover in Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 611-622.	5.1	20
34	Atomic layer deposition-triggered hierarchical core/shell stable bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21132-21141.	10.3	10
35	2D-structured V-doped Ni(Co,Fe) phosphides with enhanced charge transfer and reactive sites for highly efficient overall water splitting electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12203-12213.	10.3	45
36	Engineering electrocatalyst nanosurfaces to enrich the activity by inducing lattice strain. <i>Energy and Environmental Science</i> , 2021, 14, 3717-3756.	30.8	98

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37	Progress of Exsolved Metal Nanoparticles on Oxides as High Performance (Electro)Catalysts for the Conversion of Small Molecules. <i>Small</i> , 2021, 17, e2005383.	10.0	53
38	Simple physical mixing of zeolite prevents sulfur deactivation of vanadia catalysts for NO _x removal. <i>Nature Communications</i> , 2021, 12, 901.	12.8	49
39	Effect of Monovalent Metal Iodide Additives on the Optoelectric Properties of Two-Dimensional Sn-Based Perovskite Films. <i>Chemistry of Materials</i> , 2021, 33, 2498-2505.	6.7	28
40	One-Pot Chemo-bioprocess of PET Depolymerization and Recycling Enabled by a Biocompatible Catalyst, Betaine. <i>ACS Catalysis</i> , 2021, 11, 3996-4008.	11.2	58
41	Molecular alignment descriptor to search for the most stable adsorption sites of saturated cyclic compounds on metal surfaces. <i>Applied Surface Science</i> , 2021, 544, 148904.	6.1	4
42	Intermediates for catalytic reduction of CO ₂ on p-block element surfaces. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 236-242.	5.8	20
43	The association between L1 skeletal muscle index derived from routine CT and in-hospital mortality in CAP patients in the ED. <i>American Journal of Emergency Medicine</i> , 2021, 42, 49-54.	1.6	6
44	Disordered-Layer-Mediated Reverse Metal-Oxide Interactions for Enhanced Photocatalytic Water Splitting. <i>Nano Letters</i> , 2021, 21, 5247-5253.	9.1	18
45	Universal prediction of strain footprints via simulation, statistics, and machine learning: low- λ grain boundaries. <i>Acta Materialia</i> , 2021, 211, 116850.	7.9	5
46	Enhancing Thermocatalytic Activities by Upshifting the d-Band Center of Exsolved Co-Ni-Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. <i>Angewandte Chemie</i> , 2021, 133, 16048-16055.	2.0	11
47	Probing an Interfacial Ionic Pairing-Induced Molecular Dipole Effect in Ionovoltaic System. <i>Small Methods</i> , 2021, 5, e2100323.	8.6	6
48	Improved Catalytic Activity of the High-Temperature Water Gas Shift Reaction on Metal-Exsolved La _{0.9} Ni _{0.05} Fe _{0.95} O ₃ by Controlling Reduction Time. <i>ChemEngineering</i> , 2021, 5, 28.	2.4	3
49	High-Efficiency Anion-Exchange Membrane Water Electrolyzer Enabled by Ternary Layered Double Hydroxide Anode. <i>Small</i> , 2021, 17, e2100639.	10.0	49
50	Structure-activity relationship of VO ₂ /TiO ₂ catalysts for mercury oxidation: A DFT study. <i>Applied Surface Science</i> , 2021, 552, 149462.	6.1	17
51	Enhancing Thermocatalytic Activities by Upshifting the d-Band Center of Exsolved Co-Ni-Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15912-15919.	13.8	65
52	Anion Exchange Membrane Water Electrolysis: High-Efficiency Anion-Exchange Membrane Water Electrolyzer Enabled by Ternary Layered Double Hydroxide Anode (<i>Small</i> 28/2021). <i>Small</i> , 2021, 17, 2170147.	10.0	1
53	Facet-Dependent Mn Doping on Shaped Co ₃ O ₄ Crystals for Catalytic Oxidation. <i>ACS Catalysis</i> , 2021, 11, 11066-11074.	11.2	69
54	Engineering Single Atom Catalysts to Tune Properties for Electrochemical Reduction and Evolution Reactions. <i>Advanced Energy Materials</i> , 2021, 11, 2101670.	19.5	42

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55	Exsolved metal-boosted active perovskite oxide catalyst for stable water gas shift reaction. <i>Journal of Catalysis</i> , 2021, 400, 148-159.	6.2	18
56	A stable and active three-dimensional carbon based trimetallic electrocatalyst for efficient overall wastewater splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30762-30779.	7.1	9
57	Tuning reaction pathways of peroxydisulfate-based advanced oxidation process via defect engineering. <i>Cell Reports Physical Science</i> , 2021, 2, 100550.	5.6	9
58	Polymer Interface-Dependent Morphological Transition toward Two-Dimensional Porous Inorganic Nanocoins as an Ultrathin Multifunctional Layer for Stable Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 15644-15652.	13.7	22
59	Chemical transformation approach for high-performance ternary NiFeCo metal compound-based water splitting electrodes. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120246.	20.2	67
60	Synergistic coupling ensuing cobalt phosphosulfide encapsulated by heteroatom-doped two-dimensional graphene shell as an excellent catalyst for oxygen electroreduction. <i>Chemical Engineering Journal</i> , 2021, 423, 130233.	12.7	10
61	In-situ exsolution of Ni nanoparticles to achieve an active and stable solid oxide fuel cell anode catalyst on A-site deficient $\text{La}_{0.4}\text{Sr}_{0.4}\text{Ti}_{0.94}\text{Ni}_{0.06}\text{O}_{3-\delta}$. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 103, 264-274.	5.8	17
62	Various metal (Fe, Mo, V, Co)-doped Ni ₂ P nanowire arrays as overall water splitting electrocatalysts and their applications in unassisted solar hydrogen production with STH 14 %. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120434.	20.2	82
63	Multidentate thia-crown ethers as hyper-crosslinked macroporous adsorbent resins for the efficient Pd/Pt recovery and separation from highly acidic spent automotive catalyst leachate. <i>Chemical Engineering Journal</i> , 2021, 424, 130379.	12.7	21
64	Continuous Synthesis of Methanol from Methane and Steam over Copper-Mordenite. <i>ACS Catalysis</i> , 2021, 11, 1065-1070.	11.2	28
65	Design principles of noble metal-free electrocatalysts for hydrogen production in alkaline media: combining theory and experiment. <i>Nanoscale Advances</i> , 2021, 3, 6797-6826.	4.6	23
66	Effective Screening Route for Highly Active and Selective Metal-Nitrogen-Doped Carbon Catalysts in CO ₂ Electrochemical Reduction. <i>Small</i> , 2021, 17, e2103705.	10.0	12
67	Activating Lattice Oxygen in Perovskite Oxide by B-Site Cation Doping for Modulated Stability and Activity at Elevated Temperatures. <i>Advanced Science</i> , 2021, 8, e2102713.	11.2	44
68	Engineering counter-ion-induced disorder of a highly doped conjugated polymer for high thermoelectric performance. <i>Nano Energy</i> , 2021, 90, 106604.	16.0	17
69	Unveiling the key factor for the phase reconstruction and exsolved metallic particle distribution in perovskites. <i>Nature Communications</i> , 2021, 12, 6814.	12.8	28
70	Systematic Approach to Designing a Highly Efficient Core-Shell Electrocatalyst for N ₂ O Reduction. <i>ACS Catalysis</i> , 2021, 11, 15089-15097.	11.2	9
71	Density functional theory study on the dehydrogenation of 1,2-dimethyl cyclohexane and 2-methyl piperidine on Pd and Pt catalysts. <i>Catalysis Today</i> , 2020, 352, 345-353.	4.4	30
72	Design of Ceria Catalysts for Low-Temperature CO Oxidation. <i>ChemCatChem</i> , 2020, 12, 11-26.	3.7	78

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73	Heme Cofactor-Resembling Fe ^N Single Site Embedded Graphene as Nanozymes to Selectively Detect H ₂ O ₂ with High Sensitivity. <i>Advanced Functional Materials</i> , 2020, 30, 1905410.	14.9	171
74	The position of lysine controls the catechol-mediated surface adhesion and cohesion in underwater mussel adhesion. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 168-176.	9.4	51
75	Size-Controlled Pd Nanoparticles Loaded on Co ₃ O ₄ Nanoparticles by Calcination for Enhanced CO Oxidation. <i>ACS Applied Nano Materials</i> , 2020, 3, 486-495.	5.0	26
76	Room-Temperature-Processed Amorphous Sn-In-O Electron Transport Layer for Perovskite Solar Cells. <i>Materials</i> , 2020, 13, 32.	2.9	7
77	Oxidative Methane Conversion to Ethane on Highly Oxidized Pd/CeO ₂ Catalysts Below 400 °C. <i>ChemSusChem</i> , 2020, 13, 677-681.	6.8	16
78	Dopant-Driven Positive Reinforcement in Exsolution Process: New Strategy to Develop Highly Capable and Durable Catalytic Materials. <i>Advanced Materials</i> , 2020, 32, e2003983.	21.0	26
79	Quantum Dots of [Na ₄ Cs ₆ PbBr ₄] ⁸⁺ , Water Stable in Zeolite X, Luminesce Sharply in the Green. <i>Advanced Materials</i> , 2020, 32, e2001868.	21.0	14
80	Catalytic Materials: Dopant-Driven Positive Reinforcement in Exsolution Process: New Strategy to Develop Highly Capable and Durable Catalytic Materials (<i>Adv. Mater.</i> 46/2020). <i>Advanced Materials</i> , 2020, 32, 2070342.	21.0	1
81	Effects of Hydrogen on the Stacking Orientation of Bilayer Graphene Grown on Copper. <i>Chemistry of Materials</i> , 2020, 32, 10357-10364.	6.7	10
82	Computational approaches to the exsolution phenomenon in perovskite oxides with a view to design highly durable and active anodes for solid oxide fuel cells. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1295-1305.	2.7	9
83	Controlling the Oxidation State of Pt Single Atoms for Maximizing Catalytic Activity. <i>Angewandte Chemie</i> , 2020, 132, 20872-20877.	2.0	28
84	Controlling the Oxidation State of Pt Single Atoms for Maximizing Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20691-20696.	13.8	113
85	Validation of defect association energy on modulating oxygen ionic conductivity in low temperature solid oxide fuel cell. <i>Journal of Power Sources</i> , 2020, 480, 229106.	7.8	10
86	Probing One-Dimensional Oxygen Vacancy Channels Driven by Cation-Anion Double Ordering in Perovskites. <i>Nano Letters</i> , 2020, 20, 8353-8359.	9.1	12
87	Structural Design of Amorphous CoMoP _x with Abundant Active Sites and Synergistic Catalysis Effect for Effective Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2003889.	14.9	128
88	Highly active dry methane reforming catalysts with boosted in situ grown Ni-Fe nanoparticles on perovskite via atomic layer deposition. <i>Science Advances</i> , 2020, 6, eabb1573.	10.3	79
89	Design of an Ultrastable and Highly Active Ceria Catalyst for CO Oxidation by Rare-Earth- and Transition-Metal Co-Doping. <i>ACS Catalysis</i> , 2020, 10, 14877-14886.	11.2	23
90	Control of transition metal-oxygen bond strength boosts the redox ex-solution in a perovskite oxide surface. <i>Energy and Environmental Science</i> , 2020, 13, 3404-3411.	30.8	36

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91	Nb-TiO ₂ nanotubes as catalyst supports with high activity and durability for oxygen reduction. Applied Surface Science, 2020, 521, 146330.	6.1	14
92	Development of Ni-based alloy catalysts to improve the sulfur poisoning resistance of Ni/YSZ anodes in SOFCs. Catalysis Science and Technology, 2020, 10, 4544-4552.	4.1	10
93	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO ₂ -saturated media for an aqueous Zn-CO ₂ system. Journal of Materials Chemistry A, 2020, 8, 14927-14934.	10.3	16
94	Directional Change of Interfacial Electric Field by Carbon Insertion in Heterojunction System TiO ₂ /WO ₃ . ACS Applied Materials & Interfaces, 2020, 12, 15239-15245.	8.0	32
95	Plasma-Assisted Catalytic Effects of TiO ₂ /Macroporous SiO ₂ on the Synthesis of Light Hydrocarbons from Methane. ChemCatChem, 2020, 12, 5067-5075.	3.7	5
96	Highly selective extraction of palladium from spent automotive catalyst acid leachate using novel alkylated dioxo-dithiacrown ether derivatives. Journal of Industrial and Engineering Chemistry, 2020, 89, 428-435.	5.8	18
97	High-Performance and Reliable Lead-Free Layered Perovskite Transistors. Advanced Materials, 2020, 32, e2002717.	21.0	86
98	Simultaneous Suppression of Shuttle Effect and Lithium Dendrite Growth by Lightweight Bifunctional Separator for Li-S Batteries. ACS Applied Energy Materials, 2020, 3, 2643-2652.	5.1	34
99	Catalytic decomposition of N ₂ O on Pd Cu alloy catalysts: A density functional theory study. Applied Surface Science, 2020, 510, 145349.	6.1	20
100	Pd-Cu alloy catalyst synthesized by citric acid-assisted galvanic displacement reaction for N ₂ O reduction. Journal of Applied Electrochemistry, 2020, 50, 395-405.	2.9	6
101	Engineering of Charged Defects at Perovskite Oxide Surfaces for Exceptionally Stable Solid Oxide Fuel Cell Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 21494-21504.	8.0	43
102	A review of smart exsolution catalysts for the application of gas phase reactions. Ceramist, 2020, 23, 211-230.	0.1	2
103	Enantiospecific Adsorption and Decomposition of Cysteine Enantiomers on the Chiral Cu ₄₂₁ ^R Surface. Journal of Physical Chemistry C, 2019, 123, 20829-20837.	3.1	8
104	Density functional theory study of NO _x adsorption on alkaline earth metal oxide and transition metal surfaces. Korean Journal of Chemical Engineering, 2019, 36, 1258-1266.	2.7	7
105	Investigation of the Support Effect in Atomically Dispersed Pt on WO ₃ for Utilization of Pt in the Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 16184-16188.	2.0	49
106	Investigation of the Support Effect in Atomically Dispersed Pt on WO ₃ for Utilization of Pt in the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 16038-16042.	18.8	271
107	Controlling Electrostatic Interaction in PEDOT:PSS to Overcome Thermoelectric Tradeoff Relation. Advanced Functional Materials, 2019, 29, 1905590.	14.9	60
108	Transparent Conductive Films Derived from Single-Walled Aluminosilicate Nanotubes. ACS Applied Nano Materials, 2019, 2, 6677-6689.	5.0	5

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109	Improved CO Oxidation via Surface Stabilization of Ceria Nanoparticles Induced by Rare-Earth Metal Dopants. ACS Applied Nano Materials, 2019, 2, 6473-6481.	5.0	13
110	Highly Water-Resistant La-Doped Co ₃ O ₄ Catalyst for CO Oxidation. ACS Catalysis, 2019, 9, 10093-10100.	11.2	126
111	Aqueous Synthesis of 15-Membered Crown Ethers with Mixed O, N and S Heteroatoms: Experimental and Theoretical Binding Studies with Platinum-Group Metals. ChemPlusChem, 2019, 84, 210-221.	2.8	11
112	A new etching process for zinc oxide with etching rate and crystal plane control: experiment, calculation, and membrane application. Nanoscale, 2019, 11, 12337-12346.	5.6	3
113	Rational Design of Transition Metal Co-doped Ceria Catalysts for Low-Temperature CO Oxidation. ChemCatChem, 2019, 11, 2225-2225.	3.7	0
114	Rational Design of Transition Metal Co-doped Ceria Catalysts for Low-Temperature CO Oxidation. ChemCatChem, 2019, 11, 2288-2296.	3.7	26
115	Versatile Strategy for Tuning ORR Activity of a Single Fe-N ₄ Site by Controlling Electron-Withdrawing/Donating Properties of a Carbon Plane. Journal of the American Chemical Society, 2019, 141, 6254-6262.	13.7	509
116	Growth Kinetics of Individual Co Particles Ex-solved on SrTi _{0.75} Co _{0.25} O _{3-δ} Polycrystalline Perovskite Thin Films. Journal of the American Chemical Society, 2019, 141, 6690-6697.	13.7	75
117	Cation-swapped homogeneous nanoparticles in perovskite oxides for high-power density. Nature Communications, 2019, 10, 697.	12.8	119
118	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. Nature Communications, 2019, 10, 940.	12.8	349
119	A Highly Active and Redox-Stable SrGdNi _{0.2} Mn _{0.8} O _{4$\pm$$\delta$} Anode with in Situ Exsolution of Nanocatalysts. ACS Catalysis, 2019, 9, 1172-1182.	11.2	62
120	Approaching Ultrastable High-Rate Li-S Batteries through Hierarchically Porous Titanium Nitride Synthesized by Multiscale Phase Separation. Advanced Materials, 2019, 31, e1806547.	21.0	155
121	Rational Design of TiC-Supported Single-Atom Electrocatalysts for Hydrogen Evolution and Selective Oxygen Reduction Reactions. ACS Energy Letters, 2019, 4, 126-132.	17.4	104
122	Electrocatalysts with Increased Activity for Coelectrolysis of Steam and Carbon Dioxide in Solid Oxide Electrolyzer Cells. ACS Catalysis, 2019, 9, 967-976.	11.2	21
123	Cu-Pd alloy nanoparticles as highly selective catalysts for efficient electrochemical reduction of CO ₂ to CO. Applied Catalysis B: Environmental, 2019, 246, 82-88.	20.2	167
124	Suppression of Cation Segregation in (La,Sr)CoO _{3δ} by Elastic Energy Minimization. ACS Applied Materials & Interfaces, 2018, 10, 8057-8065.	8.0	44
125	2-(N-Methylbenzyl)pyridine: A Potential Liquid Organic Hydrogen Carrier with Fast H ₂ Release and Stable Activity in Consecutive Cycles. ChemSusChem, 2018, 11, 641-641.	6.8	1
126	2-(N-Methylbenzyl)pyridine: A Potential Liquid Organic Hydrogen Carrier with Fast H ₂ Release and Stable Activity in Consecutive Cycles. ChemSusChem, 2018, 11, 661-665.	6.8	60

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127	Mechanistic insight into the quantitative synthesis of acetic acid by direct conversion of CH ₄ and CO ₂ : An experimental and theoretical approach. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 237-248.	20.2	59
128	Density functional theory study for the enhanced sulfur tolerance of Ni catalysts by surface alloying. <i>Applied Surface Science</i> , 2018, 429, 87-94.	6.1	26
129	Enhanced oxygen exchange of perovskite oxide surfaces through strain-driven chemical stabilization. <i>Energy and Environmental Science</i> , 2018, 11, 71-77.	30.8	75
130	Highly Durable Platinum Single-Atom Alloy Catalyst for Electrochemical Reactions. <i>Advanced Energy Materials</i> , 2018, 8, 1701476.	19.5	152
131	Active site structure of a lithium phosphate catalyst for the isomerization of 2,3-epoxybutane to 3-buten-2-ol. <i>Molecular Catalysis</i> , 2018, 445, 133-141.	2.0	0
132	Sr Segregation in Perovskite Oxides: Why It Happens and How It Exists. <i>Joule</i> , 2018, 2, 1476-1499.	24.0	255
133	Atomic and Molecular Adsorption on the Bi(111) Surface: Insights into Catalytic CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23084-23090.	3.1	48
134	Fully Dispersed Rh Ensemble Catalyst To Enhance Low-Temperature Activity. <i>Journal of the American Chemical Society</i> , 2018, 140, 9558-9565.	13.7	170
135	Low-temperature direct synthesis of high quality WS ₂ thin films by plasma-enhanced atomic layer deposition for energy related applications. <i>Applied Surface Science</i> , 2018, 459, 596-605.	6.1	42
136	Chemisorption of NH ₃ on Monomeric Vanadium Oxide Supported on Anatase TiO ₂ : A Combined DRIFT and DFT Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16674-16682.	3.1	36
137	Self-assembled alloy nanoparticles in a layered double perovskite as a fuel oxidation catalyst for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15947-15953.	10.3	77
138	Synergistic Effect of Molecular-Type Electrocatalysts with Ultrahigh Pore Volume Carbon Microspheres for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018, 12, 6013-6022.	14.6	100
139	A novel strategy to develop non-noble metal catalyst for CO ₂ electroreduction: Hybridization of metal-organic polymer. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 154-161.	20.2	43
140	Tuning the electronic state of metal/graphene catalysts for the control of catalytic activity <i>via</i> N- and B-doping into graphene. <i>Chemical Communications</i> , 2018, 54, 7147-7150.	4.1	13
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