

Kuan Chang

List of Publications by Year in descending order

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papers

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5430

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all docs

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docs citations

246
times ranked

26384
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ -assisted ethane aromatization over zinc and phosphorous modified ZSM-5 catalysts. Applied Catalysis B: Environmental, 2022, 304, 120956.	10.8	21
2	Unraveling Unique Surface Chemistry of Transition Metal Nitrides in Controlling Selective C=O Bond Scission Pathways of Glycerol. JACS Au, 2022, 2, 367-379.	3.6	10
3	Microplasma synthesized gold nanoparticles for surface enhanced Raman spectroscopic detection of methylene blue. Reaction Chemistry and Engineering, 2022, 7, 346-353.	1.9	12
4	General Descriptors for CO ₂ -Assisted Selective C-H/C-C Bond Scission in Ethane. Journal of the American Chemical Society, 2022, 144, 4186-4195.	6.6	26
5	Achieving complete electrooxidation of ethanol by single atomic Rh decoration of Pt nanocubes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112109119.	3.3	40
6	Oxygenate Production from Plasma-Activated Reaction of CO ₂ and Ethane. ACS Energy Letters, 2022, 7, 236-241.	8.8	24
7	Electrochemical CO ₂ Reduction Reaction over Cu Nanoparticles with Tunable Activity and Selectivity Mediated by Functional Groups in Polymeric Binder. JACS Au, 2022, 2, 214-222.	3.6	29
8	Tuning Reaction Pathways of Electrochemical Conversion of CO ₂ by Growing Pd Shells on Ag Nanocubes. Nano Letters, 2022, 22, 4576-4582.	4.5	17
9	Catalytic Tandem CO ₂ to Ethane Reactions and Hydroformylation for C ₃ Oxygenate Production. ACS Catalysis, 2022, 12, 8279-8290.	5.5	8
10	Noble Metal-Free 2D 1T-MoS ₂ Edge Sites Boosting Selective Hydrogenation of Maleic Anhydride. ACS Catalysis, 2022, 12, 8986-8994.	5.5	18
11	CO ₂ hydrogenation over heterogeneous catalysts at atmospheric pressure: from electronic properties to product selectivity. Green Chemistry, 2021, 23, 249-267.	4.6	74
12	Challenges and Opportunities in Utilizing MXenes of Carbides and Nitrides as Electrocatalysts. Advanced Energy Materials, 2021, 11, 2002967.	10.2	94
13	Bimetallic-Derived Catalysts and Their Application in Simultaneous Upgrading of CO ₂ and Ethane. Matter, 2021, 4, 408-440.	5.0	26
14	Insight into Acetic Acid Synthesis from the Reaction of CH ₄ and CO ₂ . ACS Catalysis, 2021, 11, 3384-3401.	5.5	53
15	Electrochemical reduction of acetonitrile to ethylamine. Nature Communications, 2021, 12, 1949.	5.8	47
16	Simultaneously upgrading CO ₂ and light alkanes into value-added products. AIChE Journal, 2021, 67, e17249.	1.8	15
17	Experimental and Theoretical Insights into the Active Sites on WO _x /Pt(111) Surfaces for Dehydrogenation and Dehydration Reactions. ACS Catalysis, 2021, 11, 8023-8032.	5.5	11
18	Transition metal carbides and nitrides as catalysts for thermochemical reactions. Journal of Catalysis, 2021, 404, 929-942.	3.1	27

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19	Unravelling the electrocatalytic activity of bismuth nanosheets towards carbon dioxide reduction: Edge plane versus basal plane. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120693.	10.8	21
20	Density functional theory studies of transition metal carbides and nitrides as electrocatalysts. <i>Chemical Society Reviews</i> , 2021, 50, 12338-12376.	18.7	103
21	Comparison of Heterogeneous Hydroformylation of Ethylene and Propylene over RhCo ₃ /MCM-41 Catalysts. <i>ACS Catalysis</i> , 2021, 11, 14575-14585.	5.5	19
22	Effect of Oxide Support on Catalytic Performance of FeNi-based Catalysts for CO ₂ -assisted Oxidative Dehydrogenation of Ethane. <i>ChemCatChem</i> , 2020, 12, 494-503.	1.8	24
23	Vibrational Spectroscopic Characterization of Glycerol Reaction Pathways over Metal-Modified Molybdenum Carbide Surfaces. <i>ChemCatChem</i> , 2020, 12, 281-286.	1.8	5
24	Isotopic effect on electrochemical CO ₂ reduction activity and selectivity in H ₂ O- and D ₂ O-based electrolytes over palladium. <i>Chemical Communications</i> , 2020, 56, 106-108.	2.2	17
25	Electrochemical Conversion of CO ₂ to Syngas with Controllable CO/H ₂ Ratios over Co and Ni Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 3057-3061.	1.6	22
26	Electrochemical Conversion of CO ₂ to Syngas with Controllable CO/H ₂ Ratios over Co and Ni Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3033-3037.	7.2	203
27	Application of Ceria in CO ₂ Conversion Catalysis. <i>ACS Catalysis</i> , 2020, 10, 613-631.	5.5	152
28	Self-terminating electrodeposition of Pt on WC electrocatalysts. <i>Applied Surface Science</i> , 2020, 504, 144472.	3.1	9
29	Electrochemical Conversion of CO ₂ to Syngas with Palladium-Based Electrocatalysts. <i>Accounts of Chemical Research</i> , 2020, 53, 1535-1544.	7.6	81
30	Improving CO ₂ Electrochemical Reduction to CO Using Space Confinement between Gold or Silver Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1896-1902.	2.1	23
31	Boosting Activity and Selectivity of CO ₂ Electroreduction by Pre-Hydridizing Pd Nanocubes. <i>Small</i> , 2020, 16, e2005305.	5.2	32
32	Identifying Surface Reaction Intermediates in Plasma Catalytic Ammonia Synthesis. <i>ACS Catalysis</i> , 2020, 10, 14763-14774.	5.5	86
33	Oxygen induced promotion of electrochemical reduction of CO ₂ via co-electrolysis. <i>Nature Communications</i> , 2020, 11, 3844.	5.8	102
34	Predicting the Activity and Selectivity of Bimetallic Metal Catalysts for Ethanol Reforming using Machine Learning. <i>ACS Catalysis</i> , 2020, 10, 9438-9444.	5.5	71
35	Exploring electrocatalytic stability and activity of unmodified and platinum-modified tungsten and niobium nitrides. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22883-22892.	3.8	17
36	Interfacial Active Sites for CO ₂ Assisted Selective Cleavage of C-C/H Bonds in Ethane. <i>CheM</i> , 2020, 6, 2703-2716.	5.8	57

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37	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020, 369, .	6.0	306
38	Template-free fabrication of fractal porous Y ₂ O ₃ monolithic foam and its functional modification by Ni-doping. <i>Science China Materials</i> , 2020, 63, 1842-1847.	3.5	0
39	Selective electroreduction of CO ₂ to acetone by single copper atoms anchored on N-doped porous carbon. <i>Nature Communications</i> , 2020, 11, 2455.	5.8	265
40	Understanding the effect of Mo ₂ C support on the activity of Cu for the hydrodeoxygenation of glycerol. <i>Journal of Catalysis</i> , 2020, 388, 141-153.	3.1	12
41	Synthesis and electrocatalytic applications of flower-like motifs and associated composites of nitrogen-enriched tungsten nitride (W ₂ N ₃). <i>Nano Research</i> , 2020, 13, 1434-1443.	5.8	23
42	Highly efficient conversion of oleic acid to heptadecane without external hydrogen source over atomic layer deposited bimetallic NiPt catalysts. <i>Chemical Engineering Journal</i> , 2020, 390, 124603.	6.6	17
43	Computational and experimental identification of strong synergy of the Fe/ZnO catalyst in promoting acetic acid synthesis from CH ₄ and CO ₂ . <i>Chemical Communications</i> , 2020, 56, 3983-3986.	2.2	27
44	CO ₂ -Assisted propane aromatization over phosphorus-modified Ga/ZSM-5 catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 1881-1888.	2.1	28
45	Synchrotron Consortia for Catalysis and Electrocatalysis Research. <i>Synchrotron Radiation News</i> , 2020, 33, 2-3.	0.2	1
46	Accelerating CO ₂ Electroreduction to CO Over Pd Single-Atom Catalyst. <i>Advanced Functional Materials</i> , 2020, 30, 2000407.	7.8	173
47	Recent Advances in Carbon Dioxide Hydrogenation to Methanol via Heterogeneous Catalysis. <i>Chemical Reviews</i> , 2020, 120, 7984-8034.	23.0	825
48	Review of Plasma-Assisted Catalysis for Selective Generation of Oxygenates from CO ₂ and CH ₄ . <i>ACS Catalysis</i> , 2020, 10, 2855-2871.	5.5	118
49	Promoting H ₂ O ₂ production via 2-electron oxygen reduction by coordinating partially oxidized Pd with defect carbon. <i>Nature Communications</i> , 2020, 11, 2178.	5.8	209
50	Transition Metal Nitrides as Promising Catalyst Supports for Tuning CO/H ₂ Syngas Production from Electrochemical CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020, 132, 11441-11444.	1.6	11
51	Reactions of CO ₂ and ethane enable CO bond insertion for production of C ₃ oxygenates. <i>Nature Communications</i> , 2020, 11, 1887.	5.8	49
52	Transition Metal Nitrides as Promising Catalyst Supports for Tuning CO/H ₂ Syngas Production from Electrochemical CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11345-11348.	7.2	100
53	Tuning the activity and selectivity of electroreduction of CO ₂ to synthesis gas using bimetallic catalysts. <i>Nature Communications</i> , 2019, 10, 3724.	5.8	156
54	Revealing Energetics of Surface Oxygen Redox from Kinetic Fingerprint in Oxygen Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 13803-13811.	6.6	151

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55	CO ₂ Hydrogenation to Methanol over ZrO ₂ -Containing Catalysts: Insights into ZrO ₂ Induced Synergy. ACS Catalysis, 2019, 9, 7840-7861.	5.5	253
56	Enhancing C-C Bond Scission for Efficient Ethanol Oxidation using PtIr Nanocube Electrocatalysts. ACS Catalysis, 2019, 9, 7618-7625.	5.5	79
57	Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. Angewandte Chemie, 2019, 131, 13906-13910.	1.6	24
58	Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. Angewandte Chemie - International Edition, 2019, 58, 13768-13772.	7.2	86
59	Constant Electrode Potential Quantum Mechanical Study of CO ₂ Electrochemical Reduction Catalyzed by N-Doped Graphene. ACS Catalysis, 2019, 9, 8197-8207.	5.5	42
60	Computational and experimental demonstrations of one-pot tandem catalysis for electrochemical carbon dioxide reduction to methane. Nature Communications, 2019, 10, 3340.	5.8	150
61	Exploring Metal-Support Interactions To Immobilize Subnanometer Co Clusters on Î³-Mo ₂ N: A Highly Selective and Stable Catalyst for CO ₂ Activation. ACS Catalysis, 2019, 9, 9087-9097.	5.5	50
62	Tandem Reactions of CO ₂ Reduction and Ethane Aromatization. Journal of the American Chemical Society, 2019, 141, 17771-17782.	6.6	62
63	Titelbild: Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride (Angew. Chem. 39/2019). Angewandte Chemie, 2019, 131, 13733-13733.	1.6	0
64	Elucidation of the Active Phase and Deactivation Mechanisms of Chromium Nitride in the Electrochemical Nitrogen Reduction Reaction. Journal of Physical Chemistry C, 2019, 123, 23967-23975.	1.5	27
65	Carbon dioxide reduction in tandem with light-alkane dehydrogenation. Nature Reviews Chemistry, 2019, 3, 638-649.	13.8	124
66	The effects of bimetallic interactions for CO ₂ -assisted oxidative dehydrogenation and dry reforming of propane. AIChE Journal, 2019, 65, e16670.	1.8	38
67	Conversion of CO ₂ on a highly active and stable Cu/FeO _x /CeO ₂ catalyst: tuning catalytic performance by oxide-oxide interactions. Catalysis Science and Technology, 2019, 9, 3735-3742.	2.1	28
68	SO ₂ -Induced Selectivity Change in CO ₂ Electroreduction. Journal of the American Chemical Society, 2019, 141, 9902-9909.	6.6	102
69	Tuning CO ₂ hydrogenation selectivity via metal-oxide interfacial sites. Journal of Catalysis, 2019, 374, 60-71.	3.1	115
70	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie - International Edition, 2019, 58, 9464-9469.	7.2	226
71	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie, 2019, 131, 9564-9569.	1.6	47
72	1,2-Propanediol as a Surrogate Molecule of Glycerol for Mechanistic Studies of Selective Hydrodeoxygenation Reactions over Mo ₂ C and Cu/Mo ₂ C Surfaces. ACS Sustainable Chemistry and Engineering, 2019, 7, 8077-8082.	3.2	12

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73	Effectively Increased Efficiency for Electroreduction of Carbon Monoxide Using Supported Polycrystalline Copper Powder Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 4709-4718.	5.5	91
74	Methanol Synthesis from CO ₂ Hydrogenation over CuZnCeTi Mixed Oxide Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7922-7928.	1.8	23
75	A Combined experimental and theoretical study of the accelerated hydrogen evolution kinetics over wide pH range on porous transition metal doped tungsten phosphide electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 162-167.	10.8	58
76	Enhancing Activity and Reducing Cost for Electrochemical Reduction of CO ₂ by Supporting Palladium on Metal Carbides. <i>Angewandte Chemie</i> , 2019, 131, 6337-6341.	1.6	31
77	Exploring the ternary interactions in Cu-Zn-ZrO ₂ catalysts for efficient CO ₂ hydrogenation to methanol. <i>Nature Communications</i> , 2019, 10, 1166.	5.8	258
78	Enhancing Activity and Reducing Cost for Electrochemical Reduction of CO ₂ by Supporting Palladium on Metal Carbides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6271-6275.	7.2	123
79	Net reduction of CO ₂ via its thermocatalytic and electrocatalytic transformation reactions in standard and hybrid processes. <i>Nature Catalysis</i> , 2019, 2, 381-386.	16.1	317
80	Trends and Descriptors of Metal-Modified Transition Metal Carbides for Hydrogen Evolution in Alkaline Electrolyte. <i>ACS Catalysis</i> , 2019, 9, 2415-2422.	5.5	74
81	Effects of oxide supports on the CO ₂ reforming of ethane over Pt-Ni bimetallic catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 376-388.	10.8	75
82	Shape-Controlled CO ₂ Electrochemical Reduction on Nanosized Pd Hydride Cubes and Octahedra. <i>Advanced Energy Materials</i> , 2019, 9, 1802840.	10.2	132
83	Elucidating the roles of metallic Ni and oxygen vacancies in CO ₂ hydrogenation over Ni/CeO ₂ using isotope exchange and in situ measurements. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 360-366.	10.8	57
84	Unsaturated edge-anchored Ni single atoms on porous microwave exfoliated graphene oxide for electrochemical CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019, 243, 294-303.	10.8	243
85	Pt-modified TaC as an efficient electrocatalyst for ethanol oxidation in acid and alkaline electrolytes. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 329-336.	10.8	22
86	Cobalt-modified molybdenum carbide as a selective catalyst for hydrodeoxygenation of furfural. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 160-166.	10.8	64
87	Combining CO ₂ reduction with propane oxidative dehydrogenation over bimetallic catalysts. <i>Nature Communications</i> , 2018, 9, 1398.	5.8	113
88	Reducing Iridium Loading in Oxygen Evolution Reaction Electrocatalysts Using Core-Shell Particles with Nitride Cores. <i>ACS Catalysis</i> , 2018, 8, 2615-2621.	5.5	117
89	Growth of Nanoparticles with Desired Catalytic Functions by Controlled Doping-Segregation of Metal in Oxide. <i>Chemistry of Materials</i> , 2018, 30, 1585-1592.	3.2	11
90	A Comparative Study of Hydrodeoxygenation of Furfural Over Fe/Pt(111) and Fe/Mo ₂ C Surfaces. <i>Topics in Catalysis</i> , 2018, 61, 439-445.	1.3	13

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91	Combining CO ₂ Reduction with Ethane Oxidative Dehydrogenation by Oxygen-Modification of Molybdenum Carbide. ACS Catalysis, 2018, 8, 5374-5381.	5.5	58
92	Enhancing catalytic selectivity and stability for CO ₂ hydrogenation to methanol using a solid-solution catalyst. National Science Review, 2018, 5, 607-608.	4.6	3
93	Identifying Dynamic Structural Changes of Active Sites in Pt-Ni Bimetallic Catalysts Using Multimodal Approaches. ACS Catalysis, 2018, 8, 4120-4131.	5.5	54
94	In situ hydrogenation and decarboxylation of oleic acid into heptadecane over a Cu-Ni alloy catalyst using methanol as a hydrogen carrier. Green Chemistry, 2018, 20, 197-205.	4.6	142
95	Tuning Ni-catalyzed CO ₂ hydrogenation selectivity via Ni-ceria support interactions and Ni-Fe bimetallic formation. Applied Catalysis B: Environmental, 2018, 224, 442-450.	10.8	133
96	Spectroscopic characterization of a highly selective NiCu ₃ /C hydrodeoxygenation catalyst. Catalysis Science and Technology, 2018, 8, 6100-6108.	2.1	9
97	Tungsten Carbide and Cobalt Modified Nickel Nanoparticles Supported on Multiwall Carbon Nanotubes as Highly Efficient Electrocatalysts for Urea Oxidation in Alkaline Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 41338-41343.	4.0	25
98	Mechanistic Insights into Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride Nanoparticles. Journal of the American Chemical Society, 2018, 140, 13387-13391.	6.6	438
99	Bimetallic Electrocatalysts for CO ₂ Reduction. Topics in Current Chemistry, 2018, 376, 41.	3.0	57
100	Controlling reaction pathways of selective C-O bond cleavage of glycerol. Nature Communications, 2018, 9, 4612.	5.8	54
101	Selective Hydrogenation of Biomass-Derived 2(5H)-Furanone to Î ³ -Butyrolactone over Ni-Based Bimetallic Catalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 16039-16046.	3.2	16
102	Understanding the Role of Functional Groups in Polymeric Binder for Electrochemical Carbon Dioxide Reduction on Gold Nanoparticles. Advanced Functional Materials, 2018, 28, 1804762.	7.8	76
103	Palladium-Modified Tungsten Carbide for Ethanol Electrooxidation: From Surface Science Studies to Electrochemical Evaluation. Journal of the Electrochemical Society, 2018, 165, J3031-J3038.	1.3	7
104	Activity and Selectivity Control in CO ₂ Electroreduction to Multicarbon Products over CuO Catalysts via Electrolyte Design. ACS Catalysis, 2018, 8, 10012-10020.	5.5	173
105	Beyond fossil fuel-driven nitrogen transformations. Science, 2018, 360, .	6.0	1,379
106	L-Phenylalanine-Templated Platinum Catalyst with Enhanced Performance for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 21321-21327.	4.0	15
107	Hydrodeoxygenation of biomass-derived oxygenates over metal carbides: from model surfaces to powder catalysts. Green Chemistry, 2018, 20, 2679-2696.	4.6	80
108	Active sites for tandem reactions of CO ₂ reduction and ethane dehydrogenation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8278-8283.	3.3	105

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109	Role of Surface Oxophilicity in Copper-Catalyzed Water Dissociation. ACS Catalysis, 2018, 8, 9327-9333.	5.5	46
110	Controlled Synthesis of Fe ₃ O ₄ Nanospheres Coated with Nitrogen-Doped Carbon for High Performance Supercapacitors. ACS Applied Energy Materials, 2018, 1, 4599-4605.	2.5	21
111	High selectivity of CO ₂ hydrogenation to CO by controlling the valence state of nickel using perovskite. Chemical Communications, 2018, 54, 7354-7357.	2.2	49
112	Mechanistic study of dry reforming of ethane by CO ₂ on a bimetallic PtNi(111) model surface. Catalysis Science and Technology, 2018, 8, 3748-3758.	2.1	24
113	Ring-Opening Reaction of Furfural and Tetrahydrofurfuryl Alcohol on Hydrogen-Predosed Iridium(100) and Cobalt/Iridium(100) Surfaces. ChemCatChem, 2017, 9, 1701-1707.	1.8	34
114	Hydrogenation of CO ₂ to methanol over CuCeTiO catalysts. Applied Catalysis B: Environmental, 2017, 206, 704-711.	10.8	109
115	Comparison of Methodologies of Activation Barrier Measurements for Reactions with Deactivation. Industrial & Engineering Chemistry Research, 2017, 56, 1360-1364.	1.8	11
116	Reactions of water and C1 molecules on carbide and metal-modified carbide surfaces. Chemical Society Reviews, 2017, 46, 1807-1823.	18.7	85
117	The Central Role of Bicarbonate in the Electrochemical Reduction of Carbon Dioxide on Gold. Journal of the American Chemical Society, 2017, 139, 3774-3783.	6.6	479
118	Electrochemical reduction of CO ₂ to synthesis gas with controlled CO/H ₂ ratios. Energy and Environmental Science, 2017, 10, 1180-1185.	15.6	341
119	Active sites for CO ₂ hydrogenation to methanol on Cu/ZnO catalysts. Science, 2017, 355, 1296-1299.	6.0	1,180
120	Quantum Mechanical Study of N-Heterocyclic Carbene Adsorption on Au Surfaces. Journal of Physical Chemistry A, 2017, 121, 2674-2682.	1.1	29
121	Janus structured Pt-FeNC nanoparticles as a catalyst for the oxygen reduction reaction. Chemical Communications, 2017, 53, 1660-1663.	2.2	46
122	Opportunities and Challenges in Utilizing Metal-Modified Transition Metal Carbides as Low-Cost Electrocatalysts. Joule, 2017, 1, 253-263.	11.7	94
123	Grand Canonical Quantum Mechanical Study of the Effect of the Electrode Potential on N-Heterocyclic Carbene Adsorption on Au Surfaces. Journal of Physical Chemistry C, 2017, 121, 24618-24625.	1.5	12
124	Tuning catalytic properties using an atomically dispersed metal overlayer on transition metal carbide substrates. National Science Review, 2017, 4, 788-789.	4.6	4
125	Response to Comment on "Active sites for CO ₂ hydrogenation to methanol on Cu/ZnO catalysts". Science, 2017, 357, .	6.0	37
126	Tuning Selectivity of CO ₂ Hydrogenation Reactions at the Metal/Oxide Interface. Journal of the American Chemical Society, 2017, 139, 9739-9754.	6.6	823

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127	Adsorbate-mediated strong metal–support interactions in oxide-supported Rh catalysts. <i>Nature Chemistry</i> , 2017, 9, 120-127.	6.6	609
128	Understanding the Role of M/Pt(111) (M = Fe, Co, Ni, Cu) Bimetallic Surfaces for Selective Hydrodeoxygenation of Furfural. <i>ACS Catalysis</i> , 2017, 7, 5758-5765.	5.5	76
129	Trends in Hydrogen Evolution Activity of Metal-Modified Molybdenum Carbides in Alkaline and Acid Electrolytes. <i>ChemElectroChem</i> , 2016, 3, 1686-1693.	1.7	19
130	Ordered Mesoporous Metal Carbides with Enhanced Anisole Hydrodeoxygenation Selectivity. <i>ACS Catalysis</i> , 2016, 6, 3506-3514.	5.5	91
131	Reaction Pathways and Intermediates in Selective Ring Opening of Biomass-Derived Heterocyclic Compounds by Iridium. <i>ACS Catalysis</i> , 2016, 6, 7002-7009.	5.5	41
132	Dry Reforming of Ethane and Butane with CO ₂ over PtNi/CeO ₂ Bimetallic Catalysts. <i>ACS Catalysis</i> , 2016, 6, 7283-7292.	5.5	103
133	Optimizing Binding Energies of Key Intermediates for CO ₂ Hydrogenation to Methanol over Oxide-Supported Copper. <i>Journal of the American Chemical Society</i> , 2016, 138, 12440-12450.	6.6	565
134	Porous MS ₂ /MO ₂ (M = W, Mo) Nanorods as Efficient Hydrogen Evolution Reaction Catalysts. <i>ACS Catalysis</i> , 2016, 6, 6585-6590.	5.5	80
135	CO ₂ Hydrogenation over Oxide-Supported PtCo Catalysts: The Role of the Oxide Support in Determining the Product Selectivity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7968-7973.	7.2	261
136	Metal-modified niobium carbides as low-cost and impurity-resistant electrocatalysts for hydrogen evolution in acidic and alkaline electrolytes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5948-5954.	3.8	21
137	CO ₂ hydrogenation on Pt, Pt/SiO ₂ and Pt/TiO ₂ : Importance of synergy between Pt and oxide support. <i>Journal of Catalysis</i> , 2016, 343, 115-126.	3.1	250
138	Low loadings of platinum on transition metal carbides for hydrogen oxidation and evolution reactions in alkaline electrolytes. <i>Chemical Communications</i> , 2016, 52, 3697-3700.	2.2	42
139	Reaction pathways of furfural, furfuryl alcohol and 2-methylfuran on Cu(111) and NiCu bimetallic surfaces. <i>Surface Science</i> , 2016, 652, 91-97.	0.8	73
140	Reforming and oxidative dehydrogenation of ethane with CO ₂ as a soft oxidant over bimetallic catalysts. <i>Journal of Catalysis</i> , 2016, 343, 168-177.	3.1	115
141	Catalytic reduction of CO ₂ by H ₂ for synthesis of CO, methanol and hydrocarbons: challenges and opportunities. <i>Energy and Environmental Science</i> , 2016, 9, 62-73.	15.6	979
142	Direct Epoxidation of Propylene over Stabilized Cu ⁺ Surface Sites on Titanium-Modified Cu ₂ O. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11946-11951.	7.2	62
143	Identifying Different Types of Catalysts for CO ₂ Reduction by Ethane through Dry Reforming and Oxidative Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15501-15505.	7.2	99
144	Identifying trends and descriptors for selective CO ₂ conversion to CO over transition metal carbides. <i>Chemical Communications</i> , 2015, 51, 6988-6991.	2.2	122

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145	Correlating hydrogen oxidation and evolution activity on platinum at different pH with measured hydrogen binding energy. <i>Nature Communications</i> , 2015, 6, 5848.	5.8	784
146	Platinum-Ruthenium Nanotubes and Platinum-Ruthenium Coated Copper Nanowires As Efficient Catalysts for Electro-Oxidation of Methanol. <i>ACS Catalysis</i> , 2015, 5, 1468-1474.	5.5	155
147	Low Pressure CO ₂ Hydrogenation to Methanol over Gold Nanoparticles Activated on a CeO ₂ /TiO ₂ Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 10104-10107.	6.6	200
148	Biomass conversion to H ₂ with substantially suppressed CO ₂ formation in the presence of Group I & Group II hydroxides and a Ni/ZrO ₂ catalyst. <i>Energy and Environmental Science</i> , 2015, 8, 1702-1706.	15.6	52
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