

Zili Wu

List of Publications by Year in descending order

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253
papers

16,714
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14614

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Probing Defect Sites on CeO ₂ Nanocrystals with Well-Defined Surface Planes by Raman Spectroscopy and O ₂ Adsorption. <i>Langmuir</i> , 2010, 26, 16595-16606.	1.6	889
2	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. <i>ACS Catalysis</i> , 2018, 8, 2253-2276.	5.5	773
3	Anomalous High Ionic Conductivity of Nanoporous δ -Li ₃ PS ₄ . <i>Journal of the American Chemical Society</i> , 2013, 135, 975-978.	6.6	709
4	On the structure dependence of CO oxidation over CeO ₂ nanocrystals with well-defined surface planes. <i>Journal of Catalysis</i> , 2012, 285, 61-73.	3.1	553
5	CO Oxidation on Supported Single Pt Atoms: Experimental and ab Initio Density Functional Studies of CO Interaction with Pt Atom on γ -Al ₂ O ₃ (010) Surface. <i>Journal of the American Chemical Society</i> , 2013, 135, 12634-12645.	6.6	535
6	Introduction of π -Complexation into Porous Aromatic Framework for Highly Selective Adsorption of Ethylene over Ethane. <i>Journal of the American Chemical Society</i> , 2014, 136, 8654-8660.	6.6	383
7	One-Step Synthesis of Nb ₂ O ₅ /C/Nb ₂ C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 688-699.	3.6	315
8	2D/2D heterojunction of Ti ₃ C ₂ /g-C ₃ N ₄ nanosheets for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 8138-8149.	2.8	289
9	Nature of Active Sites and Surface Intermediates during SCR of NO with NH ₃ by Supported V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 15624-15627.	6.6	266
10	A physical catalyst for the electrolysis of nitrogen to ammonia. <i>Science Advances</i> , 2018, 4, e1700336.	4.7	264
11	Vibrational spectra of alumina- and silica-supported vanadia revisited: An experimental and theoretical model catalysis study. <i>Journal of Catalysis</i> , 2004, 226, 88-100.	3.1	258
12	Titania Composites with 2% Transition Metal Carbides as Photocatalysts for Hydrogen Production under Visible-Light Irradiation. <i>ChemSusChem</i> , 2016, 9, 1490-1497.	3.6	253
13	High-Selectivity Electrochemical Conversion of CO ₂ to Ethanol using a Copper Nanoparticle/N-Doped Graphene Electrode. <i>ChemistrySelect</i> , 2016, 1, 6055-6061.	0.7	251
14	Thiolate Ligands as a Double-Edged Sword for CO Oxidation on CeO ₂ Supported Au ₂₅ (SCH ₂ CH ₂ Ph) ₁₈ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 6111-6122.	6.6	245
15	Mesoporous MnCeOx solid solutions for low temperature and selective oxidation of hydrocarbons. <i>Nature Communications</i> , 2015, 6, 8446.	5.8	241
16	Understanding complete oxidation of methane on spinel oxides at a molecular level. <i>Nature Communications</i> , 2015, 6, 7798.	5.8	237
17	High-rate in-plane micro-supercapacitors scribed onto photo paper using in situ femtolaser-reduced graphene oxide/Au nanoparticle microelectrodes. <i>Energy and Environmental Science</i> , 2016, 9, 1458-1467.	15.6	202
18	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. <i>Nature Communications</i> , 2017, 8, 15291.	5.8	200

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19	Imaging the Atomic Surface Structures of CeO ₂ Nanoparticles. <i>Nano Letters</i> , 2014, 14, 191-196.	4.5	183
20	Monolayer Ti ₃ C ₂ Tx as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO ₂ . <i>ACS Applied Energy Materials</i> , 2019, 2, 4640-4651.	2.5	177
21	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. <i>Nature Communications</i> , 2019, 10, 1330.	5.8	177
22	Shape-Controlled Ceria-based Nanostructures for Catalysis Applications. <i>ChemSusChem</i> , 2013, 6, 1821-1833.	3.6	176
23	Low temperature propane oxidation over Co ₃ O ₄ based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 150-160.	10.8	174
24	On the Structure of Vanadium Oxide Supported on Aluminas: UV and Visible Raman Spectroscopy, UV-Visible Diffuse Reflectance Spectroscopy, and Temperature-Programmed Reduction Studies. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2793-2800.	1.2	167
25	Probing the Surface Sites of CeO ₂ Nanocrystals with Well-Defined Surface Planes via Methanol Adsorption and Desorption. <i>ACS Catalysis</i> , 2012, 2, 2224-2234.	5.5	165
26	Spectroscopic Investigation of Surface-Dependent Acid-Base Property of Ceria Nanoshapes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7340-7350.	1.5	156
27	Dibenzothiophene hydrodesulfurization activity and surface sites of silica-supported MoP, Ni ₂ P, and NiMoP catalysts. <i>Journal of Catalysis</i> , 2004, 228, 298-310.	3.1	154
28	Highly selective adsorption of ethylene over ethane in a MOF featuring the combination of open metal site and π -complexation. <i>Chemical Communications</i> , 2015, 51, 2714-2717.	2.2	151
29	Direct Neutron Spectroscopy Observation of Cerium Hydride Species on a Cerium Oxide Catalyst. <i>Journal of the American Chemical Society</i> , 2017, 139, 9721-9727.	6.6	138
30	Influence of catalyst synthesis method on selective catalytic reduction (SCR) of NO by NH ₃ with V ₂ O ₅ -WO ₃ /TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 141-150.	10.8	136
31	Fabrication of Au ₂₅ (SG) ₁₈ -ZIF ₈ Nanocomposites: A Facile Strategy to Position Au ₂₅ (SG) ₁₈ Nanoclusters Inside and Outside ZIF ₈ . <i>Advanced Materials</i> , 2018, 30, 1704576.	11.1	129
32	Adsorption and Reaction of Acetaldehyde on Shape-Controlled CeO ₂ Nanocrystals: Elucidation of Structure-Function Relationships. <i>ACS Catalysis</i> , 2014, 4, 2437-2448.	5.5	128
33	Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. <i>ACS Catalysis</i> , 2019, 9, 5692-5707.	5.5	127
34	In-Plane Heterojunctions Enable Multiphasic Two-Dimensional (2D) MoS ₂ Nanosheets As Efficient Photocatalysts for Hydrogen Evolution from Water Reduction. <i>ACS Catalysis</i> , 2016, 6, 6723-6729.	5.5	116
35	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2011, 23, 1570-1577.	3.2	106
36	Acid-base catalysis over perovskites: a review. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2877-2894.	5.2	101

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37	The reaction route and active site of catalytic decomposition of hydrazine over molybdenum nitride catalyst. <i>Journal of Catalysis</i> , 2004, 224, 473-478.	3.1	100
38	Vacancy engineering of the nickel-based catalysts for enhanced CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119561.	10.8	100
39	Adhesion and Atomic Structures of Gold on Ceria Nanostructures: The Role of Surface Structure and Oxidation State of Ceria Supports. <i>Nano Letters</i> , 2015, 15, 5375-5381.	4.5	98
40	Towards ALD thin film stabilized single-atom Pd ₁ catalysts. <i>Nanoscale</i> , 2016, 8, 15348-15356.	2.8	98
41	Oxidative Dehydrogenation of Propane to Propylene with Soft Oxidants via Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2021, 11, 2182-2234.	5.5	97
42	Surface structure dependence of selective oxidation of ethanol on faceted CeO ₂ nanocrystals. <i>Journal of Catalysis</i> , 2013, 306, 164-176.	3.1	95
43	High-performance stacked in-plane supercapacitors and supercapacitor array fabricated by femtosecond laser 3D direct writing on polyimide sheets. <i>Electrochimica Acta</i> , 2017, 241, 153-161.	2.6	93
44	Synthesis of silica supported AuCu nanoparticle catalysts and the effects of pretreatment conditions for the CO oxidation reaction. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2571.	1.3	92
45	Extraction, antioxidant and antibacterial activities of <i>Broussonetia papyrifera</i> fruits polysaccharides. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 116-124.	3.6	92
46	In Situ Phase Separation of NiAu Alloy Nanoparticles for Preparing Highly Active Au/NiO CO Oxidation Catalysts. <i>ChemPhysChem</i> , 2008, 9, 2475-2479.	1.0	91
47	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25368-25378.	1.5	91
48	Role Of CO ₂ As a Soft Oxidant For Dehydrogenation of Ethylbenzene to Styrene over a High-Surface-Area Ceria Catalyst. <i>ACS Catalysis</i> , 2015, 5, 6426-6435.	5.5	90
49	Diphosphine-Protected Au ₂₂ Nanoclusters on Oxide Supports Are Active for Gas-Phase Catalysis without Ligand Removal. <i>Nano Letters</i> , 2016, 16, 6560-6567.	4.5	88
50	Constructing Hierarchical Interfaces: TiO ₂ -Supported PtFe@FeO Nanowires for Room Temperature CO Oxidation. <i>Journal of the American Chemical Society</i> , 2015, 137, 10156-10159.	6.6	86
51	Photoinduced Strong Metal-Support Interaction for Enhanced Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 8521-8526.	6.6	85
52	Harnessing strong metal-support interactions via a reverse route. <i>Nature Communications</i> , 2020, 11, 3042.	5.8	84
53	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8042-8046.	7.2	83
54	Acid-Base Reactivity of Perovskite Catalysts Probed via Conversion of 2-Propanol over Titanates and Zirconates. <i>ACS Catalysis</i> , 2017, 7, 4423-4434.	5.5	81

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55	Catalysis on Singly Dispersed Rh Atoms Anchored on an Inert Support. ACS Catalysis, 2018, 8, 110-121.	5.5	81
56	Multiwavelength Raman Spectroscopic Study of Silica-Supported Vanadium Oxide Catalysts. Journal of Physical Chemistry C, 2010, 114, 412-422.	1.5	80
57	DRIFTS-QMS Study of Room Temperature CO Oxidation on Au/SiO ₂ Catalyst: Nature and Role of Different Au Species. Journal of Physical Chemistry C, 2009, 113, 3726-3734.	1.5	79
58	Synergistic Effects of Water and SO ₂ on Degradation of MIL-125 in the Presence of Acid Gases. Journal of Physical Chemistry C, 2016, 120, 27230-27240.	1.5	79
59	Reaction Pathways and Kinetics for Selective Catalytic Reduction (SCR) of Acidic NO _x Emissions from Power Plants with NH ₃ . ACS Catalysis, 2017, 7, 8358-8361.	5.5	78
60	Effects of Surface Terminations of 2D Bi ₂ WO ₆ on Photocatalytic Hydrogen Evolution from Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 20067-20074.	4.0	78
61	Descriptors for Hydrogen Evolution on Single Atom Catalysts in Nitrogen-Doped Graphene. Journal of Physical Chemistry C, 2020, 124, 19571-19578.	1.5	75
62	Support Shape Effect in Metal Oxide Catalysis: Ceria-Nanoshape-Supported Vanadia Catalysts for Oxidative Dehydrogenation of Isobutane. Journal of Physical Chemistry Letters, 2012, 3, 1517-1522.	2.1	72
63	In Situ FT-IR Spectroscopic Studies of CO Adsorption on Fresh Mo ₂ C/Al ₂ O ₃ Catalyst. Journal of Physical Chemistry B, 2003, 107, 7088-7094.	1.2	71
64	Robust Ag nanoplate ink for flexible electronics packaging. Nanoscale, 2015, 7, 7368-7377.	2.8	71
65	Metallic Hydrogen in Atomically Precise Gold Nanoclusters. Chemistry of Materials, 2017, 29, 4840-4847.	3.2	70
66	Discriminating the Role of Surface Hydride and Hydroxyl for Acetylene Semihydrogenation over Ceria through <i>In Situ</i> Neutron and Infrared Spectroscopy. ACS Catalysis, 2020, 10, 5278-5287.	5.5	70
67	Aminopolymer functionalization of boron nitride nanosheets for highly efficient capture of carbon dioxide. Journal of Materials Chemistry A, 2017, 5, 16241-16248.	5.2	67
68	An overview of photocatalysis facilitated by 2D heterojunctions. Nanotechnology, 2019, 30, 502002.	1.3	66
69	Quantitative Analysis of the Morphology of {101} and {001} Faceted Anatase TiO ₂ Nanocrystals and Its Implication on Photocatalytic Activity. Chemistry of Materials, 2017, 29, 5591-5604.	3.2	65
70	On the surface sites of MoP/SiO ₂ catalyst under sulfiding conditions: IR spectroscopy and catalytic reactivity studies. Journal of Catalysis, 2004, 222, 41-52.	3.1	64
71	Stronger-than-Pt hydrogen adsorption in a Au ₂₂ nanocluster for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 7532-7537.	5.2	63
72	Oxygen-Functionalized Few-Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. ChemSusChem, 2013, 6, 840-846.	3.6	61

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73	Effect of Dopants on the Adsorption of Carbon Dioxide on Ceria Surfaces. <i>ChemSusChem</i> , 2015, 8, 3651-3660.	3.6	61
74	UV Raman spectroscopic studies of $V/\gamma\text{-Al}_2\text{O}_3$ catalysts in butane dehydrogenation. <i>Journal of Catalysis</i> , 2006, 237, 220-229.	3.1	60
75	Elucidation of the Reaction Mechanism for High-Temperature Water Gas Shift over an Industrial-Type Copper-Chromium-Iron Oxide Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 7990-7999.	6.6	60
76	Shape Effect Undermined by Surface Reconstruction: Ethanol Dehydrogenation over Shape-Controlled SrTiO_3 Nanocrystals. <i>ACS Catalysis</i> , 2018, 8, 555-565.	5.5	59
77	Nature of Reactive Hydrogen for Ammonia Synthesis over a Ru/C12A7 Electride Catalyst. <i>Journal of the American Chemical Society</i> , 2020, 142, 7655-7667.	6.6	59
78	Enhanced visible light photocatalytic water reduction from a g-C ₃ N ₄ /SrTa ₂ O ₆ heterojunction. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 448-458.	10.8	58
79	Selective conversion of bio-derived ethanol to renewable BTX over Ga-ZSM-5. <i>Green Chemistry</i> , 2017, 19, 4344-4352.	4.6	57
80	CO oxidation on Au/FePO ₄ catalyst: Reaction pathways and nature of Au sites. <i>Journal of Catalysis</i> , 2009, 266, 98-105.	3.1	56
81	Title is missing!. <i>Catalysis Letters</i> , 2002, 79, 21-25.	1.4	55
82	Visible-light-driven Bi ₂ O ₃ /WO ₃ composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 91094-91102.	1.7	54
83	Raman Spectroscopic Study of $V/\gamma\text{-Al}_2\text{O}_3$ Catalysts: Quantification of Surface Vanadia Species and Their Structure Reduced by Hydrogen. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16460-16469.	1.5	53
84	Interface Engineering of Earth-Abundant Transition Metals Using Boron Nitride for Selective Electroreduction of CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6694-6700.	4.0	52
85	Effects of Sodium and Tungsten Promoters on Mg ₆ MnO ₈ -Based Core-Shell Redox Catalysts for Chemical Looping Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2019, 9, 3174-3186.	5.5	52
86	Selective catalytic reduction of NO by NH ₃ with WO ₃ -TiO ₂ catalysts: Influence of catalyst synthesis method. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 123-133.	10.8	51
87	DMOF-1 as a Representative MOF for SO ₂ Adsorption in Both Humid and Dry Conditions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23493-23500.	1.5	51
88	FT-IR Spectroscopic Studies of Thiophene Adsorption and Reactions on Mo ₂ N/ $\gamma\text{-Al}_2\text{O}_3$ Catalysts. <i>Journal of Physical Chemistry B</i> , 2002, 106, 979-987.	1.2	50
89	Low-Temperature Solution-Phase Synthesis of NiAu Alloy Nanoparticles via Butyllithium Reduction: Influences of Synthesis Details and Application As the Precursor to Active Au-NiO/SiO ₂ Catalysts through Proper Pretreatment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5758-5765.	1.5	50
90	Ultra-thin PtFe-nanowires as durable electrocatalysts for fuel cells. <i>Nanotechnology</i> , 2011, 22, 015602.	1.3	50

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91	Origin of Active Oxygen in a Ternary CuO _x /Co ₃ O ₄ â€“CeO ₂ Catalyst for CO Oxidation. Journal of Physical Chemistry C, 2014, 118, 27870-27877.	1.5	50
92	Understanding the Impact of Surface Reconstruction of Perovskite Catalysts on CH ₄ Activation and Combustion. ACS Catalysis, 2018, 8, 10306-10315.	5.5	50
93	<i>In Situ</i> Strong Metalâ€“Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. ACS Catalysis, 2021, 11, 1938-1945.	5.5	50
94	Raman study of Fano interference in <i>p</i> -type doped silicon. Journal of Raman Spectroscopy, 2010, 41, 1759-1764.	1.2	49
95	Effect of Surface Structure of TiO ₂ Nanoparticles on CO ₂ Adsorption and SO ₂ Resistance. ACS Sustainable Chemistry and Engineering, 2017, 5, 9295-9306.	3.2	49
96	Heterometal Incorporation in Metal-Exchanged Zeolites Enables Low-Temperature Catalytic Activity of NO _x Reduction. Journal of Physical Chemistry C, 2012, 116, 23322-23331.	1.5	48
97	Effect of metal oxides modification on CO ₂ adsorption performance over mesoporous carbon. Microporous and Mesoporous Materials, 2017, 249, 34-41.	2.2	47
98	Controlling Reaction Selectivity through the Surface Termination of Perovskite Catalysts. Angewandte Chemie - International Edition, 2017, 56, 9820-9824.	7.2	47
99	All-solid-state supercapacitors from natural lignin-based composite film by laser direct writing. Applied Physics Letters, 2019, 115, .	1.5	46
100	Direct Visualization and Control of Atomic Mobility at {100} Surfaces of Ceria in the Environmental Transmission Electron Microscope. Nano Letters, 2017, 17, 7652-7658.	4.5	45
101	CO oxidation over ceria supported Au ₂₂ nanoclusters: Shape effect of the support. Chinese Chemical Letters, 2018, 29, 795-799.	4.8	45
102	First Principles Insight into H ₂ Activation and Hydride Species on TiO ₂ Surfaces. Journal of Physical Chemistry C, 2018, 122, 20323-20328.	1.5	44
103	Solar-driven efficient methane catalytic oxidation over epitaxial ZnO/La _{0.8} Sr _{0.2} CoO ₃ heterojunctions. Applied Catalysis B: Environmental, 2020, 265, 118469.	10.8	44
104	Investigation of the selective sites on graphitic carbons for oxidative dehydrogenation of isobutane. Journal of Catalysis, 2009, 267, 158-166.	3.1	42
105	CO oxidation on phosphate-supported Au catalysts: Effect of support reducibility on surface reactions. Journal of Catalysis, 2011, 278, 133-142.	3.1	42
106	Impact of Surface Composition of SrTiO ₃ Catalysts for Oxidative Coupling of Methane. ChemCatChem, 2019, 11, 2107-2117.	1.8	41
107	Surface engineering of MXenes for energy and environmental applications. Journal of Materials Chemistry A, 2022, 10, 10265-10296.	5.2	41
108	A Raman Spectroscopic Study of the Speciation of Vanadia Supported on Ceria Nanocrystals with Defined Surface Planes. ChemCatChem, 2012, 4, 1653-1661.	1.8	40

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109	Toward the Design of a Hierarchical Perovskite Support: Ultra-Sintering-Resistant Gold Nanocatalysts for CO Oxidation. <i>ACS Catalysis</i> , 2017, 7, 3388-3393.	5.5	40
110	Ultrathin platinum nanowire based electrodes for high-efficiency hydrogen generation in practical electrolyzer cells. <i>Chemical Engineering Journal</i> , 2021, 410, 128333.	6.6	40
111	A review of the interactions between ceria and H ₂ and the applications to selective hydrogenation of alkynes. <i>Chinese Journal of Catalysis</i> , 2020, 41, 901-914.	6.9	40
112	Weak Sharp Solutions of Variational Inequalities in Hilbert Spaces. <i>SIAM Journal on Optimization</i> , 2004, 14, 1011-1027.	1.2	38
113	Effects of TiO ₂ in Low Temperature Propylene Epoxidation Using Gold Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1688-1698.	1.5	37
114	New Bonding Model of Radical Adsorbate on Lattice Oxygen of Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6321-6325.	2.1	37
115	Influence of absorption on quantitative analysis in Raman spectroscopy. <i>Catalysis Today</i> , 2006, 113, 40-47.	2.2	36
116	PdPt-TiO ₂ nanowires: correlating composition, electronic effects and O-vacancies with activities towards water splitting and oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119177.	10.8	36
117	A Review on the Impact of SO ₂ on the Oxidation of NO, Hydrocarbons, and CO in Diesel Emission Control Catalysis. <i>ACS Catalysis</i> , 2021, 11, 12446-12468.	5.5	36
118	The role of surface vanadia species in butane dehydrogenation over VO _x /Al ₂ O ₃ . <i>Catalysis Today</i> , 2009, 142, 143-151.	2.2	35
119	In situ studies of surface of NiFe ₂ O ₄ catalyst during complete oxidation of methane. <i>Surface Science</i> , 2016, 648, 156-162.	0.8	35
120	A tailored multi-functional catalyst for ultra-efficient styrene production under a cyclic redox scheme. <i>Nature Communications</i> , 2021, 12, 1329.	5.8	35
121	Exploring perovskites for methane activation from first principles. <i>Catalysis Science and Technology</i> , 2018, 8, 702-709.	2.1	35
122	An IR Study on Selective Hydrogenation of 1,3-Butadiene on Transition Metal Nitrides: 1,3-Butadiene and 1-Butene Adsorption on Mo ₂ N/β-Al ₂ O ₃ Catalyst. <i>Journal of Physical Chemistry B</i> , 2000, 104, 12275-12281.	1.2	34
123	An IR study on the surface passivation of Mo ₂ C/Al ₂ O ₃ catalyst with O ₂ , H ₂ O and CO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5603.	1.3	33
124	The synergic effect between Mo species and acid sites in Mo/HMCM-22 catalysts for methane aromatization. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3102.	1.3	33
125	High Internal Quantum Efficiency of Nonpolar <i>c</i> -Plane AlGaIn-Based Multiple Quantum Wells Grown on <i>c</i> -Plane Sapphire Substrate. <i>ACS Photonics</i> , 2018, 5, 1903-1906.	3.2	33
126	MoS ₂ nanosheet integrated electrodes with engineered 1T-2H phases and defects for efficient hydrogen production in practical PEM electrolysis. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121458.	10.8	33

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127	Solvent-free and one-pot synthesis of ultramicroporous carbons with ultrahigh nitrogen contents for sulfur dioxide capture. <i>Chemical Engineering Journal</i> , 2020, 391, 123579.	6.6	32
128	Engineering Porous Organic Cage Crystals with Increased Acid Gas Resistance. <i>Chemistry - A European Journal</i> , 2016, 22, 10743-10747.	1.7	31
129	Kinetics and Mechanism of Methanol Conversion over Anatase Titania Nanoshapes. <i>ACS Catalysis</i> , 2017, 7, 5345-5356.	5.5	31
130	A new trick for an old support: Stabilizing gold single atoms on LaFeO ₃ perovskite. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118178.	10.8	31
131	Perovskite-supported Pt single atoms for methane activation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4362-4368.	5.2	31
132	Pd-promoted WO ₃ -ZrO ₂ for low temperature NO _x storage. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118499.	10.8	30
133	A Principle for Highly Active Metal Oxide Catalysts via NaCl-Based Solid Solution. <i>CheM</i> , 2020, 6, 1723-1741.	5.8	30
134	Oxygen-assisted reduction of Au species on Au/SiO ₂ catalyst in room temperature CO oxidation. <i>Chemical Communications</i> , 2008, , 3308.	2.2	29
135	Role of defects and metal coordination on adsorption of acid gases in MOFs and metal oxides: An in situ IR spectroscopic study. <i>Microporous and Mesoporous Materials</i> , 2016, 227, 65-75.	2.2	29
136	Neutron Scattering Investigations of Hydride Species in Heterogeneous Catalysis. <i>ChemSusChem</i> , 2019, 12, 93-103.	3.6	29
137	Three-Phase Catalytic System of H ₂ O, Ionic Liquid, and VOPO ₄ ·SiO ₂ Solid Acid for Conversion of Fructose to 5-Hydroxymethylfurfural. <i>ChemSusChem</i> , 2014, 7, 1703-1709.	3.6	28
138	Carbon Monoxide Adsorption on Molybdenum Phosphides: A Fourier Transform Infrared Spectroscopic and Density Functional Theory Studies. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13698-13702.	1.2	26
139	Surface Structure Dependence of SO ₂ Interaction with Ceria Nanocrystals with Well-Defined Surface Facets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28895-28905.	1.5	26
140	Fundamental Understanding of the Interaction of Acid Gases with CeO ₂ : From Surface Science to Practical Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3909-3919.	1.8	26
141	Defects reduction in a-plane AlGaN epi-layers grown on r-plane sapphire substrates by metal organic chemical vapor deposition. <i>Applied Physics Express</i> , 2017, 10, 011002.	1.1	25
142	Construction of 2D BiVO ₄ ·CdS·Ti ₃ C ₂ T _x Heterostructures for Enhanced Photo-redox Activities. <i>ChemCatChem</i> , 2020, 12, 3496-3503.	1.8	25
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