Zili Wu

List of Publications by Year in descending order

281	17,536	12963 67	16162 122
papers	citations	h-index	g-index

300	300	300	20757
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probing Defect Sites on CeO₂ Nanocrystals with Well-Defined Surface Planes by Raman Spectroscopy and O₂ Adsorption. Langmuir, 2010, 26, 16595-16606.	3.6	933
2	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. ACS Catalysis, 2018, 8, 2253-2276.	11.5	816
3	Anomalous High Ionic Conductivity of Nanoporous Î²-Li₃PS₄. Journal of the American Chemical Society, 2013, 135, 975-978.	14.5	742
4	On the structure dependence of CO oxidation over CeO2 nanocrystals with well-defined surface planes. Journal of Catalysis, 2012, 285, 61-73.	6.4	575
5	CO Oxidation on Supported Single Pt Atoms: Experimental and ab Initio Density Functional Studies of CO Interaction with Pt Atom on Î¸-Al₂O₃(010) Surface. Journal of the American Chemical Society, 2013, 135, 12634-12645.	14.5	550
6	Oneâ€Step Synthesis of Nb₂O₅/C/Nb₂C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. ChemSusChem, 2018, 11, 688-699.	7.4	335
7	2D/2D heterojunction of Ti₃C₂/g-C₃N₄ nanosheets for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 8138-8149.	5.7	314
8	Nature of Active Sites and Surface Intermediates during SCR of NO with NH₃ by Supported V₂O₅â€“WO₃/TiO₂ Catalysts. Journal of the American Chemical Society, 2017, 139, 15624-15627.	14.5	287
9	A physical catalyst for the electrolysis of nitrogen to ammonia. Science Advances, 2018, 4, e1700336.	10.8	274
10	Titania Composites with 2â€‰D Transition Metal Carbides as Photocatalysts for Hydrogen Production under Visibleâ€Light Irradiation. ChemSusChem, 2016, 9, 1490-1497.	7.4	272
11	Vibrational spectra of alumina- and silica-supported vanadia revisited: An experimental and theoretical model catalyst study. Journal of Catalysis, 2004, 226, 88-100.	6.4	263
12	Mesoporous MnCeOx solid solutions for low temperature and selective oxidation of hydrocarbons. Nature Communications, 2015, 6, 8446.	13.0	261
13	Highâ€Selectivity Electrochemical Conversion of CO₂ to Ethanol using a Copper Nanoparticle/Nâ€Doped Graphene Electrode. ChemistrySelect, 2016, 1, 6055-6061.	1.7	260
14	Thiolate Ligands as a Double-Edged Sword for CO Oxidation on CeO₂ Supported Au₂₅(SCH₂CH₂Ph)₁₈ Nanoclusters. Journal of the American Chemical Society, 2014, 136, 6111-6122.	14.5	253
15	Understanding complete oxidation of methane on spinel oxides at a molecular level. Nature Communications, 2015, 6, 7798.	13.0	251
16	High-rate in-plane micro-supercapacitors scribed onto photo paper using in situ femtolaser-reduced graphene oxide/Au nanoparticle microelectrodes. Energy and Environmental Science, 2016, 9, 1458-1467.	31.9	211
17	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. Nature Communications, 2017, 8, 15291.	13.0	206
18	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. Nature Communications, 2019, 10, 1330.	13.0	197

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19	Monolayer Ti₃C₂T_x as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO₂. ACS Applied Energy Materials, 2019, 2, 4640-4651.	5.2	196
20	Imaging the Atomic Surface Structures of CeO₂ Nanoparticles. Nano Letters, 2014, 14, 191-196.	9.4	192
21	Low temperature propane oxidation over Co3O4 based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. Applied Catalysis B: Environmental, 2016, 180, 150-160.	20.4	185
22	Shapeâ€Controlled Ceriaâ€based Nanostructures for Catalysis Applications. ChemSusChem, 2013, 6, 1821-1833.	7.4	181
23	On the Structure of Vanadium Oxide Supported on Aluminas:Â UV and Visible Raman Spectroscopy, UVâ^'Visible Diffuse Reflectance Spectroscopy, and Temperature-Programmed Reduction Studies. Journal of Physical Chemistry B, 2005, 109, 2793-2800.	2.7	173
24	Probing the Surface Sites of CeO₂ Nanocrystals with Well-Defined Surface Planes via Methanol Adsorption and Desorption. ACS Catalysis, 2012, 2, 2224-2234.	11.5	172
25	Spectroscopic Investigation of Surface-Dependent Acidâ€“Base Property of Ceria Nanoshapes. Journal of Physical Chemistry C, 2015, 119, 7340-7350.	3.2	165
26	Dibenzothiophene hydrodesulfurization activity and surface sites of silica-supported MoP, Ni2P, and NiMoP catalysts. Journal of Catalysis, 2004, 228, 298-310.	6.4	158
27	Highly selective adsorption of ethylene over ethane in a MOF featuring the combination of open metal site and Ï€-complexation. Chemical Communications, 2015, 51, 2714-2717.	4.2	153
28	Direct Neutron Spectroscopy Observation of Cerium Hydride Species on a Cerium Oxide Catalyst. Journal of the American Chemical Society, 2017, 139, 9721-9727.	14.5	148
29	Influence of catalyst synthesis method on selective catalytic reduction (SCR) of NO by NH3 with V2O5-WO3/TiO2 catalysts. Applied Catalysis B: Environmental, 2016, 193, 141-150.	20.4	144
30	Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. ACS Catalysis, 2019, 9, 5692-5707.	11.5	144
31	Fabrication of Au₂₅(SG)₁₈â€“ZIFâ€8 Nanocomposites: A Facile Strategy to Position Au₂₅(SG)₁₈ Nanoclusters Inside and Outside ZIFâ€8. Advanced Materials, 2018, 30, 1704576.	24.0	141
32	Adsorption and Reaction of Acetaldehyde on Shape-Controlled CeO₂ Nanocrystals: Elucidation of Structureâ€“Function Relationships. ACS Catalysis, 2014, 4, 2437-2448.	11.5	131
33	In-Plane Heterojunctions Enable Multiphasic Two-Dimensional (2D) MoS₂ Nanosheets As Efficient Photocatalysts for Hydrogen Evolution from Water Reduction. ACS Catalysis, 2016, 6, 6723-6729.	11.5	121
34	Oxidative Dehydrogenation of Propane to Propylene with Soft Oxidants via Heterogeneous Catalysis. ACS Catalysis, 2021, 11, 2182-2234.	11.5	120
35	Vacancy engineering of the nickel-based catalysts for enhanced CO2 methanation. Applied Catalysis B: Environmental, 2021, 282, 119561.	20.4	118
36	Acidâ€“base catalysis over perovskites: a review. Journal of Materials Chemistry A, 2018, 6, 2877-2894.	10.4	111

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37	Photoinduced Strong Metalâ€“Support Interaction for Enhanced Catalysis. Journal of the American Chemical Society, 2021, 143, 8521-8526.	14.5	108
38	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. Chemistry of Materials, 2011, 23, 1570-1577.	6.9	106
39	The reaction route and active site of catalytic decomposition of hydrazine over molybdenum nitride catalyst. Journal of Catalysis, 2004, 224, 473-478.	6.4	103
40	Extraction, antioxidant and antibacterial activities of Broussonetia papyrifera fruits polysaccharides. International Journal of Biological Macromolecules, 2016, 92, 116-124.	7.6	101
41	Towards ALD thin film stabilized single-atom Pd₁catalysts. Nanoscale, 2016, 8, 15348-15356.	5.7	100
42	Adhesion and Atomic Structures of Gold on Ceria Nanostructures: The Role of Surface Structure and Oxidation State of Ceria Supports. Nano Letters, 2015, 15, 5375-5381.	9.4	99
43	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 25368-25378.	3.2	97
44	Harnessing strong metalâ€“support interactions via a reverse route. Nature Communications, 2020, 11, 3042.	13.0	97
45	Surface structure dependence of selective oxidation of ethanol on faceted CeO2 nanocrystals. Journal of Catalysis, 2013, 306, 164-176.	6.4	96
46	Synthesis of silica supported AuCu nanoparticle catalysts and the effects of pretreatment conditions for the CO oxidation reaction. Physical Chemistry Chemical Physics, 2011, 13, 2571.	2.9	94
47	Role Of CO₂ As a Soft Oxidant For Dehydrogenation of Ethylbenzene to Styrene over a High-Surface-Area Ceria Catalyst. ACS Catalysis, 2015, 5, 6426-6435.	11.5	94
48	High-performance stacked in-plane supercapacitors and supercapacitor array fabricated by femtosecond laser 3D direct writing on polyimide sheets. Electrochimica Acta, 2017, 241, 153-161.	5.3	94
49	Diphosphine-Protected Au₂₂ Nanoclusters on Oxide Supports Are Active for Gas-Phase Catalysis without Ligand Removal. Nano Letters, 2016, 16, 6560-6567.	9.4	93
50	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. Angewandte Chemie - International Edition, 2020, 59, 8042-8046.	14.6	93
51	In Situ Phase Separation of NiAu Alloy Nanoparticles for Preparing Highly Active Au/NiO CO Oxidation Catalysts. ChemPhysChem, 2008, 9, 2475-2479.	2.3	92
52	Descriptors for Hydrogen Evolution on Single Atom Catalysts in Nitrogen-Doped Graphene. Journal of Physical Chemistry C, 2020, 124, 19571-19578.	3.2	92
53	Effects of Surface Terminations of 2D Bi₂WO₆ on Photocatalytic Hydrogen Evolution from Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 20067-20074.	8.2	89
54	Constructing Hierarchical Interfaces: TiO₂-Supported PtFeâ€“FeO_x Nanowires for Room Temperature CO Oxidation. Journal of the American Chemical Society, 2015, 137, 10156-10159.	14.5	88

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55	Reaction Pathways and Kinetics for Selective Catalytic Reduction (SCR) of Acidic NO_x Emissions from Power Plants with NH₃. ACS Catalysis, 2017, 7, 8358-8361.	11.5	87
56	Catalysis on Singly Dispersed Rh Atoms Anchored on an Inert Support. ACS Catalysis, 2018, 8, 110-121.	11.5	87
57	Acidâ€"Base Reactivity of Perovskite Catalysts Probed via Conversion of 2-Propanol over Titanates and Zirconates. ACS Catalysis, 2017, 7, 4423-4434.	11.5	83
58	Multiwavelength Raman Spectroscopic Study of Silica-Supported Vanadium Oxide Catalysts. Journal of Physical Chemistry C, 2010, 114, 412-422.	3.2	82
59	DRIFTS-QMS Study of Room Temperature CO Oxidation on Au/SiO₂ Catalyst: Nature and Role of Different Au Species. Journal of Physical Chemistry C, 2009, 113, 3726-3734.	3.2	81
60	Synergistic Effects of Water and SO₂ on Degradation of MIL-125 in the Presence of Acid Gases. Journal of Physical Chemistry C, 2016, 120, 27230-27240.	3.2	80
61	In Situ FT-IR Spectroscopic Studies of CO Adsorption on Fresh Mo2C/Al2O3Catalyst. Journal of Physical Chemistry B, 2003, 107, 7088-7094.	2.7	76
62	Metallic Hydrogen in Atomically Precise Gold Nanoclusters. Chemistry of Materials, 2017, 29, 4840-4847.	6.9	74
63	Discriminating the Role of Surface Hydride and Hydroxyl for Acetylene Semihydrogenation over Ceria through In Situ Neutron and Infrared Spectroscopy. ACS Catalysis, 2020, 10, 5278-5287.	11.5	74
64	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.	4.8	72
65	Robust Ag nanoplate ink for flexible electronics packaging. Nanoscale, 2015, 7, 7368-7377.	5.7	72
66	Aminopolymer functionalization of boron nitride nanosheets for highly efficient capture of carbon dioxide. Journal of Materials Chemistry A, 2017, 5, 16241-16248.	10.4	72
67	On the surface sites of MoP/SiO2 catalyst under sulfiding conditions: IR spectroscopy and catalytic reactivity studies. Journal of Catalysis, 2004, 222, 41-52.	6.4	68
68	Stronger-than-Pt hydrogen adsorption in a Au₂₂ nanocluster for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 7532-7537.	10.4	68
69	An overview of photocatalysis facilitated by 2D heterojunctions. Nanotechnology, 2019, 30, 502002.	2.7	68
70	Effect of Dopants on the Adsorption of Carbon Dioxide on Ceria Surfaces. ChemSusChem, 2015, 8, 3651-3660.	7.4	67
71	Elucidation of the Reaction Mechanism for High-Temperature Water Gas Shift over an Industrial-Type Copperâ€"Chromiumâ€"Iron Oxide Catalyst. Journal of the American Chemical Society, 2019, 141, 7990-7999.	14.5	66
72	Quantitative Analysis of the Morphology of {101} and {001} Faceted Anatase TiO₂ Nanocrystals and Its Implication on Photocatalytic Activity. Chemistry of Materials, 2017, 29, 5591-5604.	6.9	65

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73	Nature of Reactive Hydrogen for Ammonia Synthesis over a Ru/C12A7 Electride Catalyst. Journal of the American Chemical Society, 2020, 142, 7655-7667.	14.5	65
74	Surface engineering of MXenes for energy and environmental applications. Journal of Materials Chemistry A, 2022, 10, 10265-10296.	10.4	64
75	Selective conversion of bio-derived ethanol to renewable BTX over Ga-ZSM-5. Green Chemistry, 2017, 19, 4344-4352.	9.2	62
76	Oxygenâ€Functionalized Fewâ€Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. ChemSusChem, 2013, 6, 840-846.	7.4	61
77	UV Raman spectroscopic studies of V/Î³-Al2O3 catalysts in butane dehydrogenation. Journal of Catalysis, 2006, 237, 220-229.	6.4	60
78	Shape Effect Undermined by Surface Reconstruction: Ethanol Dehydrogenation over Shape-Controlled SrTiO₃ Nanocrystals. ACS Catalysis, 2018, 8, 555-565.	11.5	60
79	Visible-light-driven Bi₂O₃/WO₃ composites with enhanced photocatalytic activity. RSC Advances, 2015, 5, 91094-91102.	3.7	59
80	Enhanced visible light photocatalytic water reduction from a g-C3N4/SrTa2O6 heterojunction. Applied Catalysis B: Environmental, 2017, 217, 448-458.	20.4	59
81	In Situ Strong Metalâ€“Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. ACS Catalysis, 2021, 11, 1938-1945.	11.5	58
82	Effects of Sodium and Tungsten Promoters on Mg₆MnO₈-Based Coreâ€“Shell Redox Catalysts for Chemical Loopingâ€”Oxidative Dehydrogenation of Ethane. ACS Catalysis, 2019, 9, 3174-3186.	11.5	57
83	CO oxidation on Au/FePO4 catalyst: Reaction pathways and nature of Au sites. Journal of Catalysis, 2009, 266, 98-105.	6.4	56
84	Title is missing!. Catalysis Letters, 2002, 79, 21-25.	2.7	55
85	Interface Engineering of Earth-Abundant Transition Metals Using Boron Nitride for Selective Electroreduction of CO₂. ACS Applied Materials & Interfaces, 2018, 10, 6694-6700.	8.2	54
86	Understanding the Impact of Surface Reconstruction of Perovskite Catalysts on CH₄ Activation and Combustion. ACS Catalysis, 2018, 8, 10306-10315.	11.5	54
87	Raman Spectroscopic Study of V/Î³-Al2O3Catalysts:â€‰ Quantification of Surface Vanadia Species and Their Structure Reduced by Hydrogen. Journal of Physical Chemistry C, 2007, 111, 16460-16469.	3.2	53
88	Raman study of Fano interference in pâ€type doped silicon. Journal of Raman Spectroscopy, 2010, 41, 1759-1764.	2.5	53
89	Origin of Active Oxygen in a Ternary CuO_x/Co₃O₄â€“CeO₂Catalyst for CO Oxidation. Journal of Physical Chemistry C, 2014, 118, 27870-27877.	3.2	53
90	DMOF-1 as a Representative MOF for SO₂ Adsorption in Both Humid and Dry Conditions. Journal of Physical Chemistry C, 2018, 122, 23493-23500.	3.2	53

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91	Selective catalytic reduction of NO by NH3 with WO3-TiO2 catalysts: Influence of catalyst synthesis method. Applied Catalysis B: Environmental, 2016, 188, 123-133.	20.4	52
92	Effect of Surface Structure of TiO₂ Nanoparticles on CO₂ Adsorption and SO₂ Resistance. ACS Sustainable Chemistry and Engineering, 2017, 5, 9295-9306.	6.8	51
93	A Review on the Impact of SO₂ on the Oxidation of NO, Hydrocarbons, and CO in Diesel Emission Control Catalysis. ACS Catalysis, 2021, 11, 12446-12468.	11.5	51
94	FT-IR Spectroscopic Studies of Thiophene Adsorption and Reactions on Mo2N/Î³-Al2O3 Catalysts. Journal of Physical Chemistry B, 2002, 106, 979-987.	2.7	50
95	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/SiO₂ Catalysts through Proper Pretreatment. Journal of Physical Chemistry C, 2009, 113, 5758-5765.	3.2	50
96	Ultra-thin PtFe-nanowires as durable electrocatalysts for fuel cells. Nanotechnology, 2011, 22, 015602.	2.7	50
97	Heterometal Incorporation in Metal-Exchanged Zeolites Enables Low-Temperature Catalytic Activity of NO_xReduction. Journal of Physical Chemistry C, 2012, 116, 23322-23331.	3.2	50
98	Direct Visualization and Control of Atomic Mobility at {100} Surfaces of Ceria in the Environmental Transmission Electron Microscope. Nano Letters, 2017, 17, 7652-7658.	9.4	50
99	Effect of metal oxides modification on CO2 adsorption performance over mesoporous carbon. Microporous and Mesoporous Materials, 2017, 249, 34-41.	4.5	49
100	Controlling Reaction Selectivity through the Surface Termination of Perovskite Catalysts. Angewandte Chemie - International Edition, 2017, 56, 9820-9824.	14.6	48
101	All-solid-state supercapacitors from natural lignin-based composite film by laser direct writing. Applied Physics Letters, 2019, 115, .	3.2	47
102	Ultrathin platinum nanowire based electrodes for high-efficiency hydrogen generation in practical electrolyzer cells. Chemical Engineering Journal, 2021, 410, 128333.	12.8	47
103	First Principles Insight into H₂ Activation and Hydride Species on TiO₂ Surfaces. Journal of Physical Chemistry C, 2018, 122, 20323-20328.	3.2	46
104	Solar-driven efficient methane catalytic oxidation over epitaxial ZnO/La0.8Sr0.2CoO3 heterojunctions. Applied Catalysis B: Environmental, 2020, 265, 118469.	20.4	46
105	MoS2 nanosheet integrated electrodes with engineered 1T-2H phases and defects for efficient hydrogen production in practical PEM electrolysis. Applied Catalysis B: Environmental, 2022, 313, 121458.	20.4	46
106	CO oxidation over ceria supported Au22 nanoclusters: Shape effect of the support. Chinese Chemical Letters, 2018, 29, 795-799.	9.0	45
107	New Bonding Model of Radical Adsorbate on Lattice Oxygen of Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 6321-6325.	4.8	45
108	Impact of Surface Composition of SrTiO₃ Catalysts for Oxidative Coupling of Methane. ChemCatChem, 2019, 11, 2107-2117.	3.8	43

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109	Investigation of the selective sites on graphitic carbons for oxidative dehydrogenation of isobutane. Journal of Catalysis, 2009, 267, 158-166.	6.4	42
110	CO oxidation on phosphate-supported Au catalysts: Effect of support reducibility on surface reactions. Journal of Catalysis, 2011, 278, 133-142.	6.4	42
111	Toward the Design of a Hierarchical Perovskite Support: Ultra-Sintering-Resistant Gold Nanocatalysts for CO Oxidation. ACS Catalysis, 2017, 7, 3388-3393.	11.5	42
112	A review of the interactions between ceria and H2 and the applications to selective hydrogenation of alkynes. Chinese Journal of Catalysis, 2020, 41, 901-914.	14.4	42
113	PdPt-TiO2 nanowires: correlating composition, electronic effects and O-vacancies with activities towards water splitting and oxygen reduction. Applied Catalysis B: Environmental, 2020, 277, 119177.	20.4	41
114	A tailored multi-functional catalyst for ultra-efficient styrene production under a cyclic redox scheme. Nature Communications, 2021, 12, 1329.	13.0	41
115	Analytical and managerial implications of integrating product substitutability in the joint pricing and procurement problem. European Journal of Operational Research, 2008, 190, 179-204.	5.9	40
116	A Raman Spectroscopic Study of the Speciation of Vanadia Supported on Ceria Nanocrystals with Defined Surface Planes. ChemCatChem, 2012, 4, 1653-1661.	3.8	40
117	Effects of TiO₂ in Low Temperature Propylene Epoxidation Using Gold Catalysts. Journal of Physical Chemistry C, 2018, 122, 1688-1698.	3.2	40
118	Weak Sharp Solutions of Variational Inequalities in Hilbert Spaces. SIAM Journal on Optimization, 2004, 14, 1011-1027.	2.1	38
119	Solvent-free and one-pot synthesis of ultramicroporous carbons with ultrahigh nitrogen contents for sulfur dioxide capture. Chemical Engineering Journal, 2020, 391, 123579.	12.8	38
120	Exploring perovskites for methane activation from first principles. Catalysis Science and Technology, 2018, 8, 702-709.	4.2	37
121	Influence of absorption on quantitative analysis in Raman spectroscopy. Catalysis Today, 2006, 113, 40-47.	4.8	36
122	In situ studies of surface of NiFe2O4 catalyst during complete oxidation of methane. Surface Science, 2016, 648, 156-162.	2.0	36
123	The role of surface vanadia species in butane dehydrogenation over VOx/Al2O3. Catalysis Today, 2009, 142, 143-151.	4.8	35
124	Kinetics and Mechanism of Methanol Conversion over Anatase Titania Nanoshapes. ACS Catalysis, 2017, 7, 5345-5356.	11.5	35
125	An IR Study on Selective Hydrogenation of 1,3-Butadiene on Transition Metal Nitrides:Â 1,3-Butadiene and 1-Butene Adsorption on Mo2N/Î³-Al2O3Catalyst. Journal of Physical Chemistry B, 2000, 104, 12275-12281.	2.7	34
126	An IR study on the surface passivation of Mo2C/Al2O3 catalyst with O2, H2O and CO2. Physical Chemistry Chemical Physics, 2004, 6, 5603.	2.9	34

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127	The synergic effect between Mo species and acid sites in Mo/HMCM-22 catalysts for methane aromatization. Physical Chemistry Chemical Physics, 2005, 7, 3102.	2.9	34
128	High Internal Quantum Efficiency of Nonpolar a-Plane AlGaN-Based Multiple Quantum Wells Grown on r-Plane Sapphire Substrate. ACS Photonics, 2018, 5, 1903-1906.	6.8	34
129	A new trick for an old support: Stabilizing gold single atoms on LaFeO3 perovskite. Applied Catalysis B: Environmental, 2020, 261, 118178.	20.4	34
130	Perovskite-supported Pt single atoms for methane activation. Journal of Materials Chemistry A, 2020, 8, 4362-4368.	10.4	34
131	Defect Engineering of Ceria Nanocrystals for Enhanced Catalysis via a High-Entropy Oxide Strategy. ACS Central Science, 2022, 8, 1081-1090.	12.1	34
132	Understanding Service Utilization in Cases of Elder Abuse to Inform Best Practices. Journal of Applied Gerontology, 2016, 35, 1036-1057.	2.1	33
133	Engineering Porous Organic Cage Crystals with Increased Acid Gas Resistance. Chemistry - A European Journal, 2016, 22, 10743-10747.	3.8	32
134	Role of defects and metal coordination on adsorption of acid gases in MOFs and metal oxides: An in situ IR spectroscopic study. Microporous and Mesoporous Materials, 2016, 227, 65-75.	4.5	32
135	A Principle for Highly Active Metal Oxide Catalysts via NaCl-Based Solid Solution. CheM, 2020, 6, 1723-1741.	12.1	32
136	Neutron Scattering Investigations of Hydride Species in Heterogeneous Catalysis. ChemSusChem, 2019, 12, 93-103.	7.4	31
137	Pd-promoted WO3-ZrO2 for low temperature NOx storage. Applied Catalysis B: Environmental, 2020, 264, 118499.	20.4	31
138	Threeâ€Phase Catalytic System of H₂O, Ionic Liquid, and VOPO₄â€“SiO₂ Solid Acid for Conversion of Fructose to 5â€Hydroxymethylfurfural. ChemSusChem, 2014, 7, 1703-1709.	7.4	30
139	Measuring and directing charge transfer in heterogenous catalysts. Nature Communications, 2022, 13, .	13.0	30
140	Oxygen-assisted reduction of Au species on Au/SiO2 catalyst in room temperature CO oxidation. Chemical Communications, 2008, , 3308.	4.2	29
141	Construction of 2D BiVO₄â”CdSâ”Ti₃C₂T_x Heterostructures for Enhanced Photoâ€redox Activities. ChemCatChem, 2020, 12, 3496-3503.	3.8	29
142	Activation and surface reactions of CO and H2 on ZnO powders and nanoplates under CO hydrogenation reaction conditions. Journal of Energy Chemistry, 2020, 50, 351-357.	13.2	29
143	Isolated Metal Sites in Cuâ€“Znâ€“Y/Beta for Direct and Selective Butene-Rich C₃₊ Olefin Formation from Ethanol. ACS Catalysis, 2021, 11, 9885-9897.	11.5	29
144	Psychopathological features in Noonan syndrome. European Journal of Paediatric Neurology, 2018, 22, 170-177.	1.5	28

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145	Surface Structure Dependence of SO₂ Interaction with Ceria Nanocrystals with Well-Defined Surface Facets. Journal of Physical Chemistry C, 2015, 119, 28895-28905.	3.2	27
146	Fundamental Understanding of the Interaction of Acid Gases with CeO₂: From Surface Science to Practical Catalysis. Industrial & Engineering Chemistry Research, 2016, 55, 3909-3919.	3.7	27
147	Carbon Monoxide Adsorption on Molybdenum Phosphides:Â Fourier Transform Infrared Spectroscopic and Density Functional Theory Studies. Journal of Physical Chemistry B, 2003, 107, 13698-13702.	2.7	26
148	Defects reduction in a-plane AlGaN epi-layers grown on r-plane sapphire substrates by metal organic chemical vapor deposition. Applied Physics Express, 2017, 10, 011002.	2.4	26
149	Deep Learning Accelerated Determination of Hydride Locations in Metal Nanoclusters. Angewandte Chemie - International Edition, 2021, 60, 12289-12292.	14.6	26
150	New Insights into the Bulk and Surface Defect Structures of Ceria Nanocrystals from Neutron Scattering Study. Chemistry of Materials, 2021, 33, 3959-3970.	6.9	26
151	Growth and Electrochemical Characterization of Carbon Nanospike Thin Film Electrodes. Journal of the Electrochemical Society, 2014, 161, H558-H563.	2.9	24
152	CO₂-Assisted Oxidative Dehydrogenation of Propane over VO_x/In₂O₃ Catalysts: Interplay between Redox Property and Acidâ€“Base Interactions. ACS Catalysis, 2022, 12, 11239-11252.	11.5	24
153	Sulfur Effect on Mo2N/Î³-Al2O3 Catalyst Studied by in Situ FT-IR Spectroscopy. Journal of Catalysis, 2000, 194, 23-32.	6.4	23
154	Low-Temperature Isomerization of 1-Butene on Mo2N/Î³-Al2O3 Catalyst Studied by in Situ FT-IR Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 9183-9190.	2.7	23
155	Interaction of SO₂ with ZnO Nanoshapes: Impact of Surface Polarity. Journal of Physical Chemistry C, 2019, 123, 11772-11780.	3.2	23
156	Inelastic Neutron Scattering Observation of Plasma-Promoted Nitrogen Reduction Intermediates on Ni/Î³-Al₂O₃. ACS Energy Letters, 2021, 6, 2048-2053.	18.2	23
157	Self-Assembly of Metal Oxide Nanoparticles into Hierarchically Patterned Porous Architectures Using Ionic Liquid/Oil Emulsions. Langmuir, 2009, 25, 7229-7233.	3.6	22
158	Controlling Reaction Selectivity through the Surface Termination of Perovskite Catalysts. Angewandte Chemie, 2017, 129, 9952-9956.	2.1	22
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