

Jixing Liu

List of Publications by Year in descending order

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83
papers

3,865
citations

126907

33
h-index

128289

60
g-index

83
all docs

83
docs citations

83
times ranked

3424
citing authors

#	ARTICLE	IF	CITATIONS
1	Defective Mn _x Zr _{1-x} O ₂ Solid Solution for the Catalytic Oxidation of Toluene: Insights into the Oxygen Vacancy Contribution. ACS Applied Materials & Interfaces, 2019, 11, 730-739.	8.0	244
2	Novel photocatalyst incorporating Ni-Co layered double hydroxides with P-doped CdS for enhancing photocatalytic activity towards hydrogen evolution. Applied Catalysis B: Environmental, 2019, 254, 145-155.	20.2	209
3	Efficient Z-scheme photocatalysts of ultrathin g-C ₃ N ₄ -wrapped Au/TiO ₂ -nanocrystals for enhanced visible-light-driven conversion of CO ₂ with H ₂ O. Applied Catalysis B: Environmental, 2020, 263, 118314.	20.2	206
4	Role of oxygen vacancies and Mn sites in hierarchical Mn ₂ O ₃ /LaMnO ₃ - δ perovskite composites for aqueous organic pollutants decontamination. Applied Catalysis B: Environmental, 2019, 245, 546-554.	20.2	187
5	Roles of Surface-Active Oxygen Species on 3DOM Cobalt-Based Spinel Catalysts M _x Co _{3-x} O ₄ (M = Zn and Ni) for NO-Assisted Soot Oxidation. ACS Catalysis, 2019, 9, 7548-7567.	11.2	158
6	Fabrication of Spinel-Type Pd _x Co _{3-x} O ₄ Binary Active Sites on 3D Ordered Meso-macroporous Ce-Zr-O ₂ with Enhanced Activity for Catalytic Soot Oxidation. ACS Catalysis, 2018, 8, 7915-7930.	11.2	157
7	Stabilizing platinum atoms on CeO ₂ oxygen vacancies by metal-support interaction induced interface distortion: Mechanism and application. Applied Catalysis B: Environmental, 2020, 278, 119304.	20.2	120
8	Multifunctional photocatalysts of Pt-decorated 3DOM perovskite-type SrTiO ₃ with enhanced CO ₂ adsorption and photoelectron enrichment for selective CO ₂ reduction with H ₂ O to CH ₄ . Journal of Catalysis, 2019, 377, 309-321.	6.2	114
9	Deep Understanding of Strong Metal Interface Confinement: A Journey of Pd/FeO _x Catalysts. ACS Catalysis, 2020, 10, 8950-8959.	11.2	113
10	High-efficient catalysts of core-shell structured Pt@transition metal oxides (TMOs) supported on 3DOM-Al ₂ O ₃ for soot oxidation: The effect of strong Pt-TMO interaction. Applied Catalysis B: Environmental, 2019, 244, 628-640.	20.2	111
11	Efficiently multifunctional catalysts of 3D ordered meso-macroporous Ce _{0.3} Zr _{0.7} O ₂ -supported PdAu@CeO ₂ core-shell nanoparticles for soot oxidation: Synergetic effect of Pd-Au-CeO ₂ ternary components. Applied Catalysis B: Environmental, 2019, 251, 247-260.	20.2	105
12	Boosting the Removal of Diesel Soot Particles by the Optimal Exposed Crystal Facet of CeO ₂ in Au/CeO ₂ Catalysts. Environmental Science & Technology, 2020, 54, 2002-2011.	10.0	101
13	Interaction-Induced Self-Assembly of Au@La ₂ O ₃ Core-Shell Nanoparticles on La ₂ O ₂ CO ₃ Nanorods with Enhanced Catalytic Activity and Stability for Soot Oxidation. ACS Catalysis, 2019, 9, 3700-3715.	11.2	91
14	Insights into the efficient adsorption of rhodamine B on tunable organo-vermiculites. Journal of Hazardous Materials, 2019, 366, 501-511.	12.4	86
15	Simultaneous NO _x and Particulate Matter Removal from Diesel Exhaust by Hierarchical Fe-Doped Ce-Zr Oxide. ACS Catalysis, 2017, 7, 3883-3892.	11.2	85
16	Enhanced activity and sulfur resistance for soot combustion on three-dimensionally ordered macroporous-mesoporous Mn _x Ce _{1-x} O ₃ /SiO ₂ catalysts. Applied Catalysis B: Environmental, 2019, 254, 246-259.	20.2	73
17	The effect of oxygen vacancies and water on HCHO catalytic oxidation over Co ₃ O ₄ catalyst: A combination of density functional theory and microkinetic study. Chemical Engineering Journal, 2019, 355, 540-550.	12.7	69
18	Insight into the Potassium Poisoning Effect for Selective Catalytic Reduction of NO _x with NH ₃ over Fe/Beta. ACS Catalysis, 2021, 11, 14727-14739.	11.2	69

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19	Z-scheme heterojunction of SnS ₂ -decorated 3DOM-SrTiO ₃ for selectively photocatalytic CO ₂ reduction into CH ₄ . Chinese Chemical Letters, 2020, 31, 2774-2778.	9.0	62
20	In Situ Synthesis of Strongly Coupled Co ₂ -P-CdS Nanohybrids: An Effective Strategy To Regulate Photocatalytic Hydrogen Evolution Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 9940-9950.	6.7	61
21	High-efficient non-noble metal catalysts of 3D ordered macroporous perovskite-type La ₂ NiB TM O ₆ for soot combustion: Insight into the synergistic effect of binary Ni and B TM sites. Applied Catalysis B: Environmental, 2020, 275, 119108.	20.2	59
22	Catalysts of self-assembled Pt@CeO ₂ -rich core-shell nanoparticles on 3D ordered macroporous Ce _{1-x} Zr _x O ₂ for soot oxidation: nanostructure-dependent catalytic activity. Nanoscale, 2017, 9, 4558-4571.	5.6	57
23	In-situ synthesis of ternary metal phosphides Ni _x Co _{1-x} P decorated Zn _{0.5} Cd _{0.5} S nanorods with significantly enhanced photocatalytic hydrogen production activity. Chemical Engineering Journal, 2019, 378, 122220.	12.7	55
24	Carbonate-mediated Mars-van Krevelen mechanism for CO oxidation on cobalt-doped ceria catalysts: facet-dependence and coordination-dependence. Physical Chemistry Chemical Physics, 2018, 20, 16045-16059.	2.8	54
25	Fe@Beta@CeO ₂ core-shell catalyst with tunable shell thickness for selective catalytic reduction of NO _x with NH ₃ . AIChE Journal, 2017, 63, 4430-4441.	3.6	51
26	Fe/Beta@SBA-15 core-shell catalyst: Interface stable effect and propene poisoning resistance for no abatement. AIChE Journal, 2018, 64, 3967-3978.	3.6	51
27	Transfer Hydrogenation of Fatty Acids on Cu/ZrO ₂ : Demystifying the Role of Carrier Structure and Metal-Support Interface. ACS Catalysis, 2020, 10, 9098-9108.	11.2	50
28	Mechanistic Study of Selective Catalytic Reduction of NO _x with NH ₃ over Mn-TiO ₂ : A Combination of Experimental and DFT Study. Journal of Physical Chemistry C, 2017, 121, 19859-19871.	3.1	47
29	Synergetic Effect of K Sites and Pt Nanoclusters in an Ordered Hierarchical Porous Pt-KMnO _x /Ce _{0.25} Zr _{0.75} O ₂ Catalyst for Boosting Soot Oxidation. ACS Catalysis, 2020, 10, 7123-7135.	11.2	47
30	Nickel-Iron Nitride-Nickel Sulfide Composites for Oxygen Evolution Electrocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 41464-41470.	8.0	44
31	Hierarchical Porous K-OMS-2/3DOM-m Ti _{0.7} Si _{0.3} O ₂ Catalysts for Soot Combustion: Easy Preparation, High Catalytic Activity, and Good Resistance to H ₂ O and SO ₂ . ACS Catalysis, 2021, 11, 5554-5571.	11.2	44
32	SO ₂ -Tolerant Catalytic Removal of Soot Particles over 3D Ordered Macroporous Al ₂ O ₃ -Supported Binary Pt-Co Oxide Catalysts. Environmental Science & Technology, 2020, 54, 6947-6956.	10.0	42
33	Solvent-free rapid synthesis of porous CeWO _x by a mechanochemical self-assembly strategy for the abatement of NO _x . Journal of Materials Chemistry A, 2020, 8, 6717-6731.	10.3	42
34	Silicalite-1 Stabilizes Zn-Hydride Species for Efficient Propane Dehydrogenation. ACS Catalysis, 2022, 12, 5997-6006.	11.2	35
35	Experimental and DFT insights of BiVO ₄ as an effective photocatalytic catalyst for N ₂ O decomposition. Chemical Engineering Journal, 2019, 366, 504-513.	12.7	33
36	Synthesis of micro-mesoporous materials ZSM-5/FDU-12 and the performance of dibenzothiophene hydrodesulfurization. RSC Advances, 2017, 7, 28038-28047.	3.6	32

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37	Facet-dependent photocatalytic decomposition of N ₂ O on the anatase TiO ₂ : a DFT study. <i>Nanoscale</i> , 2018, 10, 6024-6038.	5.6	32
38	In situ encapsulated subnanometric CoO clusters within silicalite-1 zeolite for efficient propane dehydrogenation. <i>AIChE Journal</i> , 2022, 68, e17451.	3.6	29
39	Catalysts of 3D ordered macroporous ZrO ₂ -supported core-shell Pt@CeO ₂ nanoparticles: effect of the optimized Pt-CeO ₂ interface on improving the catalytic activity and stability of soot oxidation. <i>Catalysis Science and Technology</i> , 2017, 7, 968-981.	4.1	28
40	Selective catalytic reduction of NO with NH ₃ over Mo-Fe/β catalysts: the effect of Mo loading amounts. <i>RSC Advances</i> , 2017, 7, 7130-7139.	3.6	28
41	The simultaneous purification of PM and NO _x in diesel engine exhausts over a single 3DOM Ce _{0.9} Fe _{0.1} Zr _x O ₂ catalyst. <i>Environmental Science: Nano</i> , 2017, 4, 1168-1177.	4.3	27
42	Three-dimensionally ordered macroporous K _{0.5} MnCeO _x /SiO ₂ catalysts: facile preparation and worthwhile catalytic performances for soot combustion. <i>Catalysis Science and Technology</i> , 2019, 9, 1372-1386.	4.1	27
43	Cu-SAPO-18 for NH ₃ -SCR Reaction: The Effect of Different Aging Temperatures on Cu ²⁺ Active Sites and Catalytic Performances. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2389-2395.	3.7	27
44	Effect of Nb Promoter on the Structure and Performance of Iron Titanate Catalysts for the Selective Catalytic Reduction of NO with NH ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7802-7810.	3.7	26
45	Biomass-derived nitrogen self-doped porous activation carbon as an effective bifunctional electrocatalysts. <i>Chinese Chemical Letters</i> , 2021, 32, 92-98.	9.0	25
46	A Unique Fe/Beta@TiO ₂ Core-Shell Catalyst by Small-Grain Molecular Sieve as the Core and TiO ₂ Nanosize Thin Film as the Shell for the Removal of NO _x . <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5833-5842.	3.7	24
47	Amorphous MoS ₂ nanosheets on MoO ₂ films/Mo foil as free-standing electrode for synergetic electrocatalytic hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17422-17433.	7.1	23
48	Density Functional Theory Study of the Formaldehyde Catalytic Oxidation Mechanism on a Au-Doped CeO ₂ (111) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 438-448.	3.1	22
49	Efficient Catalysts of La ₂ O ₃ Nanorod-Supported Pt Nanoparticles for Soot Oxidation: The Role of La ₂ O ₃ -{110} Facets. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7074-7084.	3.7	22
50	Optimal exposed crystal facets of Mn ₂ O ₃ catalysts with enhancing catalytic performance for soot combustion. <i>Catalysis Today</i> , 2021, 376, 229-238.	4.4	22
51	Optimized Pt-MnO _x interface in Pt-MnO _x /3DOM-Al ₂ O ₃ catalysts for enhancing catalytic soot combustion. <i>Chinese Chemical Letters</i> , 2021, 32, 1447-1450.	9.0	21
52	Aluminum hydroxide-mediated synthesis of mesoporous metal oxides by a mechanochemical nanocasting strategy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22977-22985.	10.3	20
53	Trimetallic Catalyst Supported Zirconium-Modified Three-Dimensional Mesoporous Silica Material and Its Hydrodesulfurization Performance of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 654-667.	3.7	18
54	Synthesis of Titanium Modified Three-Dimensional KIT-5 Mesoporous Support and Its Application of the Quinoline Hydrodenitrogenation. <i>Energy & Fuels</i> , 2019, 33, 5518-5528.	5.1	17

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55	BiMO ₂ Semiconductors as Catalysts for Photocatalytic Decomposition of N ₂ O: A Combination of Experimental and DFT+U Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 2811-2820.	6.7	17
56	Taming the Redox Property of A _{0.5} Co _{2.5} O ₄ (A = Mg, Ca, Sr, Ba) toward High Catalytic Activity for N ₂ O Decomposition. ACS Applied Energy Materials, 2021, 4, 8496-8505.	5.1	17
57	Combination of Density Functional Theory and Microkinetic Study to the Mn-Doped CeO ₂ Catalysts for CO Oxidation: A Case Study to Understand the Doping Metal Content. Journal of Physical Chemistry C, 2018, 122, 25290-25300.	3.1	16
58	Mechanochemical Synthesis of Highly Porous CeMnO _x Catalyst for the Removal of NO _x . Industrial & Engineering Chemistry Research, 2019, 58, 16472-16478.	3.7	16
59	3DOM Mn-Based Perovskite Catalysts Modified by Potassium: Facile Synthesis and Excellent Catalytic Performance for Simultaneous Catalytic Elimination of Soot and NO _x from Diesel Engines. Journal of Physical Chemistry C, 2021, 125, 25545-25564.	3.1	16
60	Fe/Beta@Meso-CeO ₂ Nanostructure Core-Shell Catalyst: Remarkable Enhancement of Potassium Poisoning Resistance. Catalysis Surveys From Asia, 2018, 22, 181-194.	2.6	14
61	Facile synthesis of 3D ordered macro-mesoporous Ce _{1-x} Zr _x O ₂ catalysts with enhanced catalytic activity for soot oxidation. Catalysis Today, 2020, 355, 587-595.	4.4	14
62	Mesoporous Co ₃ O ₄ supported Pt catalysts for low-temperature oxidation of acetylene. RSC Advances, 2017, 7, 18592-18600.	3.6	13
63	Unraveling the structure-sensitivity of the photocatalytic decomposition of N ₂ O on CeO ₂ : a DFT+U study. Journal of Materials Chemistry A, 2018, 6, 19241-19255.	10.3	12
64	The catalytic performances and reaction mechanism of nanoparticle Cd/Ce-Ti oxide catalysts for NH ₃ -SCR reaction. RSC Advances, 2017, 7, 50127-50134.	3.6	11
65	Enhancing the low temperature NH ₃ -SCR activity of FeTiO _x catalysts via Cu doping: a combination of experimental and theoretical study. RSC Advances, 2018, 8, 19301-19309.	3.6	10
66	Titanium-Modified TUD-1 Mesoporous Catalysts for the Hydrotreatment of FCC Diesel. Energy & Fuels, 2018, 32, 8210-8219.	5.1	10
67	Synthesis of highly ordered Al-Zr-SBA-16 composites and their application in dibenzothiophene hydrodesulfurization. Chemical Engineering Science, 2020, 213, 115415.	3.8	10
68	Study on Hydrodesulfurization of L/W Coexistence Zeolite Modified by Magnesium for FCC Gasoline. Energy & Fuels, 2018, 32, 777-786.	5.1	8
69	Green synthesis of mesoporous MnNbO _x oxide by a liquid induced self-assembly strategy for low-temperature removal of NO _x . Chemical Communications, 2019, 55, 15073-15076.	4.1	8
70	Descriptor-Guided Design and Experimental Synthesis of Metal-Doped TiO ₂ for Propane Dehydrogenation. Industrial & Engineering Chemistry Research, 2021, 60, 1200-1209.	3.7	8
71	Restricted diffusion of model sulfides over a NiMo/BK catalyst under hydrodesulfurization reaction conditions. RSC Advances, 2017, 7, 44340-44347.	3.6	7
72	Simultaneous removal of PM and NO _x over highly efficient 3DOM W/Ce _{0.8} Zr _{0.2} O ₂ catalysts. RSC Advances, 2017, 7, 56509-56518.	3.6	7

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73	The nature of Ni-O pairs for ethane activation on NiO(100) and NiO(110) surfaces. <i>Molecular Catalysis</i> , 2019, 474, 110417.	2.0	7
74	Hydrothermal Catalytic Upgrading of Model Compounds of Algae-Based Bio-Oil to Monocyclic Aromatic Hydrocarbons over Hierarchical HZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20551-20560.	3.7	7
75	A hierarchical ZSM-22/PHTS composite material and its hydro-isomerization performance in hydro-upgrading of gasoline. <i>Catalysis Science and Technology</i> , 2021, 11, 5448-5459.	4.1	6
76	Breaking the scaling relationship <i>via</i> dual metal doping in a cobalt spinel for the OER: a computational prediction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18672-18680.	2.8	5
77	Ultra-small Ni(HCO ₃) ₂ as a water dissociation promoter boosting the alkaline hydrogen electrocatalysis performance of MoS ₂ . <i>Chemical Communications</i> , 2020, 56, 12065-12068.	4.1	5
78	FeNi ₃ â€“FeNi ₃ N â€“ a high-performance catalyst for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6245-6250.	4.9	5
79	Computational Screening and Experimental Synthesis of Doped TiO ₂ for Propane Dehydrogenation. <i>Energy & Fuels</i> , 2021, 35, 19624-19633.	5.1	5
80	Multifunctional glass fibre filter modified with vertical graphene for one-step dynamic water filtration and disinfection. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12125-12131.	10.3	4
81	Hydrogen Clathrate Structures in Uranium Hydrides at High Pressures. <i>ACS Omega</i> , 2021, 6, 3946-3950.	3.5	3
82	Roomâ€“Temperature Photocatalytic Decomposition of N ₂ O over Nanobeltâ€“Like Bi ₂ MoO ₆ . <i>ChemistrySelect</i> , 2019, 4, 5338-5344.	1.5	1
83	The surface structure of $\hat{\Gamma}^2$ -NiOOH (001) under reaction conditions and its effect on OER activity: An ab initio study. <i>Molecular Catalysis</i> , 2020, 493, 111082.	2.0	1