

Yuechang Wei

List of Publications by Year in descending order

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papers

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81900

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times ranked

4347
citing authors

#	ARTICLE	IF	CITATIONS
1	The Z-scheme g-C ₃ N ₄ /3DOM-WO ₃ photocatalysts with enhanced activity for CO ₂ photoreduction into CO. Chinese Chemical Letters, 2022, 33, 939-942.	9.0	38
2	Insight into reaction pathways of CO ₂ photoreduction into CH ₄ over hollow microsphere Bi ₂ MoO ₆ -supported Au catalysts. Chemical Engineering Journal, 2022, 433, 133540.	12.7	33
3	Ternary heterojunction in rGO-coated Ag/Cu ₂ O catalysts for boosting selective photocatalytic CO ₂ reduction into CH ₄ . Applied Catalysis B: Environmental, 2022, 311, 121371.	20.2	86
4	Synergistic effect of binary Co and Ni cations in hydrotalcite-derived Co _{2-x} Ni _x AlO catalysts for promoting soot combustion. Fuel, 2022, 320, 123888.	6.4	22
5	Metal-Support interaction modulate the sulfidation and dispersion of MoS ₂ slabs on hierarchical KNiMo ZnCrAl-Based multifunctional catalysts for selective conversion of syngas to higher alcohols. Chemical Engineering Journal, 2022, 440, 135831.	12.7	3
6	Confining shell-sandwiched Ag clusters in MnO ₂ -CeO ₂ hollow spheres to boost activity and stability of toluene combustion. Nano Research, 2022, 15, 7042-7051.	10.4	37
7	Preparation of 3DOM ZrTiO ₄ Support, W _x CeMnO ₄ /3DOM ZrTiO ₄ Catalysts, and Their Catalytic Performance for the Simultaneous Removal of Soot and NO _x . Frontiers in Chemistry, 2022, 10, .	3.6	1
8	Metal Ions (Li, Mg, Zn, Ce) Doped into La ₂ O ₃ Nanorod for Boosting Catalytic Oxidative Coupling of Methane. Catalysts, 2022, 12, 713.	3.5	7
9	Optimal exposed crystal facets of γ -Mn ₂ O ₃ catalysts with enhancing catalytic performance for soot combustion. Catalysis Today, 2021, 376, 229-238.	4.4	22
10	Preparation, characterization and catalytic performance of ordered macroporous-mesoporous SiO ₂ -supported MnMO _x catalysts for soot combustion. Catalysis Today, 2021, 364, 21-34.	4.4	8
11	Facile synthesis of birnessite-type K ₂ Mn ₄ O ₈ and cryptomelane-type K _{2-x} Mn ₈ O ₁₆ catalysts and their excellent catalytic performance for soot combustion with high resistance to H ₂ O and SO ₂ . Applied Catalysis B: Environmental, 2021, 285, 119779.	20.2	50
12	Optimized Pt-MnO _x interface in Pt-MnO _x /3DOM-Al ₂ O ₃ catalysts for enhancing catalytic soot combustion. Chinese Chemical Letters, 2021, 32, 1447-1450.	9.0	21
13	Engineered tungsten oxide-based photocatalysts for CO ₂ reduction: categories and roles. Journal of Materials Chemistry A, 2021, 9, 22781-22809.	10.3	29
14	Hetero-Metallic Active Sites in Omega (MAZ) Zeolite-Catalyzed Methane Partial Oxidation: A DFT Study. Industrial & Engineering Chemistry Research, 2021, 60, 2400-2409.	3.7	12
15	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
16	Exposed {0 0 1} facet of anatase TiO ₂ nanocrystals in Ag/TiO ₂ catalysts for boosting catalytic soot combustion: The facet-dependent activity. Journal of Catalysis, 2021, 398, 109-122.	6.2	39
17	Ordered macro-mesoporous nanostructure of Pd/ZrO ₂ catalyst for boosting catalytic NO-assisted soot oxidation. Chemical Engineering Science, 2021, 239, 116635.	3.8	17
18	Boosting Catalytic Purification of Soot Particles over Double Perovskite-Type La _{2-x} K _x NiCoO ₆ Catalysts with an Ordered Macroporous Structure. Environmental Science & Technology, 2021, 55, 11245-11254.	10.0	28

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19	The heterojunction between 3D ordered macroporous TiO ₂ and MoS ₂ nanosheets for enhancing visible-light driven CO ₂ reduction. <i>Journal of CO₂ Utilization</i> , 2021, 51, 101648.	6.8	15
20	Research advances of rare earth catalysts for catalytic purification of vehicle exhausts—Commemorating the 100th anniversary of the birth of Academician Guangxian Xu. <i>Journal of Rare Earths</i> , 2021, 39, 1151-1180.	4.8	29
21	Facilitating Catalytic Purification of Auto-Exhaust Carbon Particles via the Fe ₂ O ₃ {113} Facet-dependent Effect in Pt/Fe ₂ O ₃ Catalysts. <i>Environmental Science & Technology</i> , 2021, 55, 16153-16162.	10.0	18
22	Facile synthesis of 3D ordered macro-mesoporous Ce _{1-x} Zr _x O ₂ catalysts with enhanced catalytic activity for soot oxidation. <i>Catalysis Today</i> , 2020, 355, 587-595.	4.4	14
23	Fabrication of La [~] Ca FeO ₃ perovskite-type oxides with macro-mesoporous structure via a dual-template method for highly efficient soot combustion. <i>Journal of Rare Earths</i> , 2020, 38, 369-375.	4.8	8
24	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. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118314.	20.2	206
25	Boosting the Removal of Diesel Soot Particles by the Optimal Exposed Crystal Facet of CeO ₂ in Au/CeO ₂ Catalysts. <i>Environmental Science & Technology</i> , 2020, 54, 2002-2011.	10.0	101
26	Z-scheme heterojunction of SnS ₂ -decorated 3DOM-SrTiO ₃ for selectively photocatalytic CO ₂ reduction into CH ₄ . <i>Chinese Chemical Letters</i> , 2020, 31, 2774-2778.	9.0	62
27	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
28	SO ₂ -Tolerant Catalytic Removal of Soot Particles over 3D Ordered Macroporous Al ₂ O ₃ -Supported Binary Pt-Co Oxide Catalysts. <i>Environmental Science & Technology</i> , 2020, 54, 6947-6956.	10.0	42
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. <i>ACS Catalysis</i> , 2020, 10, 7123-7135.	11.2	47
30	All-solid-state Z-scheme photocatalysts of g-C ₃ N ₄ /Pt/macroporous-(TiO ₂ @carbon) for selective boosting visible-light-driven conversion of CO ₂ to CH ₄ . <i>Journal of Catalysis</i> , 2020, 389, 440-449.	6.2	78
31	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. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119108.	20.2	59
32	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 . <i>Journal of Catalysis</i> , 2019, 377, 309-321.	6.2	114
33	Roles of Surface-Active Oxygen Species on 3DOM Cobalt-Based Spinel Catalysts M _x Co _{3-3x} O ₄ (M = Zn and Ni) for NO _x -Assisted Soot Oxidation. <i>ACS Catalysis</i> , 2019, 9, 7548-7567.	11.2	158
34	Three-dimensional ordered macroporous perovskite-type La [~] K NiO ₃ catalysts with enhanced catalytic activity for soot combustion: the Effect of K-substitution. <i>Chinese Journal of Catalysis</i> , 2019, 40, 722-732.	14.0	31
35	Enhanced activity and sulfur resistance for soot combustion on three-dimensionally ordered macroporous-mesoporous Mn _x Ce _{1-x} O ₃ /SiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 246-259.	20.2	73
36	Synergy of Single-Atom Ni ₁ and Ru ₁ Sites on CeO ₂ for Dry Reforming of CH ₄ . <i>Journal of the American Chemical Society</i> , 2019, 141, 7283-7293.	13.7	272

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37	Interaction-Induced Self-Assembly of Au@La ₂ O ₃ Core-Shell Nanoparticles on La ₂ O ₃ CO ₃ Nanorods with Enhanced Catalytic Activity and Stability for Soot Oxidation. ACS Catalysis, 2019, 9, 3700-3715.	11.2	91
38	Three-dimensionally ordered macroporous K _{0.5} MnCeO _x /SiO ₂ catalysts: facile preparation and worthwhile catalytic performances for soot combustion. Catalysis Science and Technology, 2019, 9, 1372-1386.	4.1	27
39	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
40	Efficient Catalysts of La ₂ O ₃ Nanorod-Supported Pt Nanoparticles for Soot Oxidation: The Role of La ₂ O ₃ -{110} Facets. Industrial & Engineering Chemistry Research, 2019, 58, 7074-7084.	3.7	22
41	Cu-SAPO-18 for NH ₃ -SCR Reaction: The Effect of Different Aging Temperatures on Cu ²⁺ Active Sites and Catalytic Performances. Industrial & Engineering Chemistry Research, 2019, 58, 2389-2395.	3.7	27
42	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
43	Graphene-wrapped Pt/TiO ₂ photocatalysts with enhanced photogenerated charges separation and reactant adsorption for high selective photoreduction of CO ₂ to CH ₄ . Applied Catalysis B: Environmental, 2018, 226, 360-372.	20.2	211
44	Fabrication of ultrafine Pd nanoparticles on 3D ordered macroporous TiO ₂ for enhanced catalytic activity during diesel soot combustion. Chinese Journal of Catalysis, 2018, 39, 606-612.	14.0	25
45	A robust fuel cell operated on nearly dry methane at 500 °C enabled by synergistic thermal catalysis and electrocatalysis. Nature Energy, 2018, 3, 1042-1050.	39.5	230
46	Efficient photocatalysts of TiO ₂ nanocrystals-supported PtRu alloy nanoparticles for CO ₂ reduction with H ₂ O: Synergistic effect of Pt-Ru. Applied Catalysis B: Environmental, 2018, 236, 445-457.	20.2	113
47	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
48	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
49	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. Catalysis Science and Technology, 2017, 7, 968-981.	4.1	28
50	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
51	AuPd/3DOM-TiO ₂ catalysts for photocatalytic reduction of CO ₂ : High efficient separation of photogenerated charge carriers. Applied Catalysis B: Environmental, 2017, 209, 228-239.	20.2	142
52	Ordered micro/macro porous K-OMS-2/SiO ₂ nanocatalysts: Facile synthesis, low cost and high catalytic activity for diesel soot combustion. Scientific Reports, 2017, 7, 43894.	3.3	37
53	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
54	3DOM SiO ₂ -Supported Different Alkali Metals-Modified MnO _x Catalysts: Preparation and Catalytic Performance for Soot combustion. ChemistrySelect, 2017, 2, 10176-10185.	1.5	17

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55	Study on the coating of nano-particle and 3DOM LaCoO ₃ perovskite-type complex oxide on cordierite monolith and the catalytic performances for soot oxidation: The effect of washcoat materials of alumina, silica and titania. <i>Catalysis Today</i> , 2017, 297, 131-142.	4.4	27
56	Nature of Cu Species in Cu ²⁺ -SAPO-18 Catalyst for NH ₃ -SCR: Combination of Experiments and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14669-14680.	3.1	107
57	Fabrication of inverse opal TiO ₂ -supported Au@CdS core-shell nanoparticles for efficient photocatalytic CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 422-432.	20.2	121
58	Synthesis of K-doped three-dimensionally ordered macroporous Mn _{0.5} Ce _{0.5} O ₃ catalysts and their catalytic performance for soot oxidation. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1957-1967.	14.0	23
59	Facile synthesis of three-dimensionally ordered macroporous LaFeO ₃ -supported gold nanoparticle catalysts with high catalytic activity and stability for soot combustion. <i>Catalysis Today</i> , 2015, 245, 37-45.	4.4	38
60	3D ordered macroporous TiO ₂ -supported Pt@CdS core-shell nanoparticles: design, synthesis and efficient photocatalytic conversion of CO ₂ with water to methane. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11074-11085.	10.3	138
61	The novel catalysts of truncated polyhedron Pt nanoparticles supported on three-dimensionally ordered macroporous oxides (Mn, Fe, Co, Ni, Cu) with nanoporous walls for soot combustion. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 57-70.	20.2	101
62	Photocatalysts of 3D Ordered Macroporous TiO ₂ -Supported CeO ₂ Nanolayers: Design, Preparation, and Their Catalytic Performances for the Reduction of CO ₂ with H ₂ O under Simulated Solar Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17345-17354.	3.7	92
63	Multifunctional catalysts of three-dimensionally ordered macroporous oxide-supported Au@Pt core-shell nanoparticles with high catalytic activity and stability for soot oxidation. <i>Journal of Catalysis</i> , 2014, 317, 62-74.	6.2	84
64	Three-Dimensionally Ordered Macroporous Mn _x Ce _{1-x} O ₃ and Pt/Mn _{0.5} Ce _{0.5} O ₃ Catalysts: Synthesis and Catalytic Performance for Soot Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9653-9664.	3.7	82
65	One-pot synthesis of core-shell Au@CeO ₂ nanoparticles supported on three-dimensionally ordered macroporous ZrO ₂ with enhanced catalytic activity and stability for soot combustion. <i>Catalysis Science and Technology</i> , 2013, 3, 2958.	4.1	66
66	Structural and synergistic effects of three-dimensionally ordered macroporous Ce _{0.8} Zr _{0.2} O ₂ -supported Pt nanoparticles on the catalytic performance for soot combustion. <i>Applied Catalysis A: General</i> , 2013, 453, 250-261.	4.3	60
67	Design and Synthesis of 3D Ordered Macroporous CeO ₂ -Supported Pt@CeO ₂ Core-Shell Nanoparticle Materials for Enhanced Catalytic Activity of Soot Oxidation. <i>Small</i> , 2013, 9, 3957-3963.	10.0	76
68	Comparative study of nanometric Co-, Mn- and Fe-based perovskite-type complex oxide catalysts for the simultaneous elimination of soot and NO from diesel engine exhaust. <i>Catalysis Today</i> , 2012, 184, 288-300.	4.4	98
69	The catalysts of three-dimensionally ordered macroporous Ce _{1-x} Zr _x O ₂ -supported gold nanoparticles for soot combustion: The metal-support interaction. <i>Journal of Catalysis</i> , 2012, 287, 13-29.	6.2	215
70	Three-dimensionally ordered macroporous Ce _{0.8} Zr _{0.2} O ₂ -supported gold nanoparticles: synthesis with controllable size and super-catalytic performance for soot oxidation. <i>Energy and Environmental Science</i> , 2011, 4, 2959.	30.8	171
71	Highly Active Catalysts of Gold Nanoparticles Supported on Three-Dimensionally Ordered Macroporous LaFeO ₃ for Soot Oxidation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2326-2329.	13.8	306