

# Xiaodong Wu

## List of Publications by Citations

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154  
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158  
ext. papers

5,910  
ext. citations

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L-index

#	Paper	IF	Citations
154	Soot oxidation over CeO <sub>2</sub> and Ag/CeO <sub>2</sub> : Factors determining the catalyst activity and stability during reaction. <i>Journal of Catalysis</i> , <b>2016</b> , 337, 188-198	7.3	204
153	Thermal ageing of Pt on low-surface-area CeO <sub>2</sub> /ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> mixed oxides: Effect on the OSC performance. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 81, 38-48	21.8	183
152	Oxygen activation on Cu/Mn/Ce mixed oxides and the role in diesel soot oxidation. <i>Catalysis Today</i> , <b>2008</b> , 139, 113-118	5.3	173
151	Impacts of niobia loading on active sites and surface acidity in NbO <sub>x</sub> /CeO <sub>2</sub> /ZrO <sub>2</sub> NH <sub>3</sub> SCR catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 179, 380-394	21.8	165
150	Ceria-based catalysts for soot oxidation: a review. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 567-590	3.7	154
149	Effects of adsorbed and gaseous NO <sub>x</sub> species on catalytic oxidation of diesel soot with MnO <sub>x</sub> /CeO <sub>2</sub> mixed oxides. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 96, 101-109	21.8	120
148	MnO <sub>x</sub> -CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> mixed oxides for soot oxidation: activity and thermal stability. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 187, 283-90	12.8	103
147	Selective catalytic reduction of NO by ammonia over phosphate-containing Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> solids. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 223-232	21.8	100
146	Roles of Acid Sites on Pt/H-ZSM5 Catalyst in Catalytic Oxidation of Diesel soot. <i>ACS Catalysis</i> , <b>2015</b> , 5, 909-919	13.1	83
145	NH <sub>3</sub> -SCR reaction mechanisms of NbO <sub>x</sub> /Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> catalyst: DRIFTS and kinetics studies. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 423, 172-180		80
144	Effects of WO <sub>x</sub> modification on the activity, adsorption and redox properties of CeO <sub>2</sub> catalyst for NO <sub>x</sub> reduction with ammonia. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 1305-16	6.4	80
143	Modifications of CeO <sub>2</sub> /ZrO <sub>2</sub> solid solutions by nickel and sulfate as catalysts for NO reduction with ammonia in excess O <sub>2</sub> . <i>Catalysis Communications</i> , <b>2010</b> , 11, 1045-1048	3.2	78
142	The catalytic activity of CuO/CeO <sub>2</sub> mixed oxides for diesel soot oxidation with a NO/O <sub>2</sub> mixture. <i>Catalysis Communications</i> , <b>2007</b> , 8, 2110-2114	3.2	77
141	Phase structures, morphologies, and NO catalytic oxidation activities of single-phase MnO <sub>2</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2016</b> , 514, 24-34	5.1	76
140	Lattice oxygen mobility and acidity improvements of NiO/CeO <sub>2</sub> /ZrO <sub>2</sub> catalyst by sulfation for NO <sub>x</sub> reduction by ammonia. <i>Catalysis Today</i> , <b>2013</b> , 201, 122-130	5.3	76
139	Rare earth containing catalysts for selective catalytic reduction of NO <sub>x</sub> with ammonia: A Review. <i>Journal of Rare Earths</i> , <b>2014</b> , 32, 907-917	3.7	73
138	Total oxidation of propane on Pt/WO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts by formation of metastable Pt <sup>δ</sup> species interacted with WO <sub>x</sub> clusters. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 225-226, 146-54	12.8	69

137	Study of Ag/Ce Nd1-O2 nanocubes as soot oxidation catalysts for gasoline particulate filters: Balancing catalyst activity and stability by Nd doping. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 116-126	21.8	67
136	Evolution of copper species on Cu/SAPO-34 SCR catalysts upon hydrothermal aging. <i>Catalysis Today</i> , <b>2017</b> , 281, 596-604	5.3	67
135	Nb-modified Mn/Ce/Ti catalyst for the selective catalytic reduction of NO with NH3 at low temperature. <i>Applied Catalysis A: General</i> , <b>2017</b> , 545, 64-71	5.1	65
134	A novel Nb/Ce/WOx/TiO2 catalyst with high NH3-SCR activity and stability. <i>Catalysis Communications</i> , <b>2012</b> , 27, 97-100	3.2	65
133	Roles of oxygen vacancy and O <sub>2</sub> in oxidation reactions over CeO2 and Ag/CeO2 nanorod model catalysts. <i>Journal of Catalysis</i> , <b>2018</b> , 368, 365-378	7.3	65
132	Selective oxidation of soot over Cu doped ceria/ceria-zirconia catalysts. <i>Catalysis Communications</i> , <b>2008</b> , 9, 202-206	3.2	63
131	Low-temperature SCR activity and SO2 deactivation mechanism of Ce-modified V2O5/WO3/TiO2 catalyst. <i>Progress in Natural Science: Materials International</i> , <b>2015</b> , 25, 342-352	3.6	62
130	Combined promoting effects of platinum and MnOx/CeO2 supported on alumina on NOx-assisted soot oxidation: Thermal stability and sulfur resistance. <i>Chemical Engineering Journal</i> , <b>2012</b> , 203, 25-35	14.7	60
129	Study of Ag promoted Fe2O3@CeO2 as superior soot oxidation catalysts: The role of Fe2O3 crystal plane and tandem oxygen delivery. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 251-262	21.8	57
128	NH3-SCR activity, hydrothermal stability, sulfur resistance and regeneration of Ce0.75Zr0.25O2@CeO2 catalyst. <i>Catalysis Communications</i> , <b>2012</b> , 17, 146-149	3.2	57
127	Synergistic effect between ceria and tungsten oxide on WO3/CeO2/TiO2 catalysts for NH3-SCR reaction. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 265-272	3.6	55
126	Role of CeO2/ZrO2 in diesel soot oxidation and thermal stability of potassium catalyst. <i>Catalysis Communications</i> , <b>2007</b> , 8, 1274-1278	3.2	55
125	Nitrate storage behavior of Ba/MnOx-CeO2 catalyst and its activity for soot oxidation with heat transfer limitations. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 181, 722-8	12.8	53
124	A novel insight into enhanced propane combustion performance on Pt/USY catalyst. <i>Rare Metals</i> , <b>2017</b> , 36, 1-9	5.5	52
123	Sulfation of Pt/Al2O3 catalyst for soot oxidation: High utilization of NO2 and oxidation of surface oxygenated complexes. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 138-139, 199-211	21.8	51
122	Preparation of MnOx/CeO2/Al2O3 mixed oxides for NOx-assisted soot oxidation: Activity, structure and thermal stability. <i>Chemical Engineering Journal</i> , <b>2013</b> , 226, 105-112	14.7	50
121	Structure and performance of $\gamma$ -alumina washcoat deposited by plasma spraying. <i>Surface and Coatings Technology</i> , <b>2001</b> , 145, 226-232	4.4	49
120	Localized Surface Plasmon Resonance Assisted Photothermal Catalysis of CO and Toluene Oxidation over Pd/CeO2 Catalyst under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 29116-29125	3.8	47

119	A robust core-shell silver soot oxidation catalyst driven by Co <sub>3</sub> O <sub>4</sub> : Effect of tandem oxygen delivery and Co <sub>3</sub> O <sub>4</sub> -CeO <sub>2</sub> synergy. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 132-142	21.8	45
118	Potassium poisoning on Cu-SAPO-34 catalyst for selective catalytic reduction of NO <sub>x</sub> with ammonia. <i>Chemical Engineering Journal</i> , <b>2015</b> , 267, 191-200	14.7	44
117	Effect of barium loading on CuOx/CeO <sub>2</sub> catalysts: NO <sub>x</sub> storage capacity, NO oxidation ability and soot oxidation activity. <i>Catalysis Today</i> , <b>2011</b> , 175, 124-132	5.3	44
116	Role of Surface Area in Oxygen Storage Capacity of Ceria/Zirconia as Soot Combustion Catalyst. <i>Catalysis Letters</i> , <b>2007</b> , 119, 265-270	2.8	44
115	An exploration of soot oxidation over CeO <sub>2</sub> -ZrO <sub>2</sub> nanocubes: Do more surface oxygen vacancies benefit the reaction?. <i>Catalysis Today</i> , <b>2017</b> , 281, 454-459	5.3	43
114	Study of Ag/CeO <sub>2</sub> catalysts for naphthalene oxidation: Balancing the oxygen availability and oxygen regeneration capacity. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 231-240	21.8	42
113	TRA and DRIFTS studies of the fast SCR reaction over CeO <sub>2</sub> /TiO <sub>2</sub> catalyst at low temperatures. <i>Applied Catalysis A: General</i> , <b>2018</b> , 557, 46-54	5.1	40
112	SO <sub>2</sub> promoted V <sub>2</sub> O <sub>5</sub> -MoO <sub>3</sub> /TiO <sub>2</sub> catalyst for NH <sub>3</sub> -SCR of NO at low temperatures. <i>Applied Catalysis A: General</i> , <b>2019</b> , 570, 42-50	5.1	40
111	Activation and deactivation of Ag/CeO <sub>2</sub> during soot oxidation: influences of interfacial ceria reduction. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2129-2139	5.5	39
110	Synergistic effect between MnO and CeO <sub>2</sub> in the physical mixture: Electronic interaction and NO oxidation activity. <i>Journal of Rare Earths</i> , <b>2013</b> , 31, 1141-1147	3.7	37
109	Promotional effect of potassium on soot oxidation activity and SO <sub>2</sub> -poisoning resistance of Cu/CeO <sub>2</sub> catalyst. <i>Catalysis Communications</i> , <b>2008</b> , 9, 1898-1901	3.2	37
108	Effects of WO <sub>3</sub> doping on stability and N <sub>2</sub> O escape of MnO/CeO <sub>2</sub> mixed oxides as a low-temperature SCR catalyst. <i>Catalysis Communications</i> , <b>2015</b> , 69, 188-192	3.2	36
107	Facile synthesis of hierarchical porous Al <sub>2</sub> O <sub>3</sub> hollow microspheres for water treatment. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 417, 369-78	9.3	35
106	Synergistic effects between copper and tungsten on the structural and acidic properties of CuOx/WOx/ZrO <sub>2</sub> catalyst. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 453	5.5	35
105	Atomic palladium on graphitic carbon nitride as a hydrogen evolution catalyst under visible light irradiation. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	35
104	Chemical deactivation of V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> SCR catalyst by combined effect of potassium and chloride. <i>Frontiers of Environmental Science and Engineering</i> , <b>2013</b> , 7, 420-427	5.8	34
103	Modification of Cu/ZSM-5 catalyst with CeO <sub>2</sub> for selective catalytic reduction of NO <sub>x</sub> with ammonia. <i>Journal of Rare Earths</i> , <b>2016</b> , 34, 1004-1009	3.7	33
102	Modification of CeO <sub>2</sub> -ZrO <sub>2</sub> catalyst by potassium for NO <sub>x</sub> -assisted soot oxidation. <i>Journal of Environmental Sciences</i> , <b>2011</b> , 23, 145-50	6.4	33

101	Effects of silica additive on the NH <sub>3</sub> -SCR activity and thermal stability of a V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> -TiO <sub>2</sub> catalyst. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1340-1346	11.3	32
100	Textural/Structural properties and soot oxidation activity of MnO-CeO <sub>2</sub> mixed oxides. <i>Catalysis Communications</i> , <b>2011</b> , 12, 345-348	3.2	32
99	Comparative study on sulfur poisoning of V <sub>2</sub> O <sub>5</sub> -Sb <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> monolithic catalysts for low-temperature NH <sub>3</sub> -SCR. <i>Catalysis Communications</i> , <b>2017</b> , 93, 33-36	3.2	31
98	Durability of Cu/SAPO-34 catalyst for NO reduction by ammonia: Potassium and sulfur poisoning. <i>Catalysis Communications</i> , <b>2015</b> , 59, 35-39	3.2	28
97	Ageing resistance of rhodium supported on CeO <sub>2</sub> /ZrO <sub>2</sub> and ZrO <sub>2</sub> : Rhodium nanoparticle structure and Rh-support interaction under diverse ageing atmosphere. <i>Catalysis Today</i> , <b>2017</b> , 281, 490-499	5.3	28
96	NO <sub>x</sub> -Assisted Soot Oxidation on Pt/Mg/Al <sub>2</sub> O <sub>3</sub> Catalysts: Magnesium Precursor, Pt Particle Size, and Pt/Mg Interaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 2271-2279	3.9	28
95	Effects of sulfation on the activity of Ce <sub>0.67</sub> Zr <sub>0.33</sub> O <sub>2</sub> supported Pt catalyst for propane oxidation. <i>Catalysis Communications</i> , <b>2010</b> , 11, 1229-1232	3.2	28
94	Low-Temperature Solid-State Ion-Exchange Method for Preparing Cu-SSZ-13 Selective Catalytic Reduction Catalyst. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6962-6973	13.1	27
93	Active oxygen-assisted NO-NO <sub>2</sub> recycling and decomposition of surface oxygenated species on diesel soot with Pt/Ce <sub>0.6</sub> Zr <sub>0.4</sub> O <sub>2</sub> catalyst. <i>Chinese Journal of Catalysis</i> , <b>2014</b> , 35, 407-415	11.3	27
92	Effect of water vapor on NH <sub>3</sub> -NO/NO <sub>2</sub> SCR performance of fresh and aged MnO <sub>x</sub> -NbO <sub>x</sub> -CeO <sub>2</sub> catalysts. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 31, 240-7	6.4	26
91	Importance of re-oxidation of palladium by interaction with lanthana for propane combustion over Pd/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Today</i> , <b>2013</b> , 201, 19-24	5.3	26
90	Sulfur poisoning and regeneration of MnO <sub>x</sub> -CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalyst for soot oxidation. <i>Journal of Rare Earths</i> , <b>2012</b> , 30, 659-664	3.7	25
89	Effects of tungsten oxide on soot oxidation activity and sulfur poisoning resistance of Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 644	5.5	24
88	Effects of plasma-sprayed NiCrAl/ZrO <sub>2</sub> intermediate on the combination ability of coatings. <i>Surface and Coatings Technology</i> , <b>2001</b> , 140, 231-237	4.4	24
87	Potassium deactivation of Cu-SSZ-13 catalyst for NH <sub>3</sub> -SCR: Evolution of salts, zeolite and copper species. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123080	14.7	24
86	Simple Strategy Generating Hydrothermally Stable Core/Shell Platinum Catalysts with Tunable Distribution of Acid Sites. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2796-2804	13.1	23
85	Roles of cobalt and cerium species in three-dimensionally ordered macroporous CoCeO catalysts for the catalytic oxidation of diesel soot. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 579-587	9.3	23
84	Participation of sulfates in propane oxidation on Pt/SO <sub>4</sub> <sup>2-</sup> /CeO <sub>2</sub> /ZrO <sub>2</sub> catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2012</b> , 361-362, 98-103		23

83	Effect of barium sulfate modification on the SO tolerance of VO/TiO catalyst for NH-SCR reaction. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 57, 110-117	6.4	22
82	SmMn <sub>2</sub> O <sub>5</sub> catalysts modified with silver for soot oxidation: Dispersion of silver and distortion of mullite. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 273, 119058	21.8	22
81	Pt/Zeolite Catalysts for Soot Oxidation: Influence of Hydrothermal Aging. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17218-17227	3.8	21
80	Structure and oxygen storage capacity of Pr-doped Ce <sub>0.26</sub> Zr <sub>0.74</sub> O <sub>2</sub> mixed oxides. <i>Journal of Rare Earths</i> , <b>2011</b> , 29, 1053-1059	3.7	21
79	Influence of H <sub>2</sub> /O <sub>2</sub> redox treatments at different temperatures on Pd-CeO <sub>2</sub> catalyst: Structure and oxygen storage capacity. <i>Catalysis Today</i> , <b>2010</b> , 153, 111-117	5.3	21
78	NO <sub>x</sub> -assisted soot oxidation over K/CuCe catalyst. <i>Journal of Rare Earths</i> , <b>2010</b> , 28, 542-546	3.7	21
77	MnO <sub>x</sub> /CeO <sub>2</sub> mixed oxides for diesel soot oxidation: a review. <i>Catalysis Surveys From Asia</i> , <b>2018</b> , 22, 230-240	4.0	21
76	A comprehensive study on sulfur tolerance of niobia modified CeO <sub>2</sub> /WO <sub>3</sub> -TiO <sub>2</sub> catalyst for low-temperature NH <sub>3</sub> -SCR. <i>Applied Catalysis A: General</i> , <b>2019</b> , 580, 121-130	5.1	19
75	Ceria-modified WO <sub>3</sub> -TiO <sub>2</sub> -SiO <sub>2</sub> monolithic catalyst for high-temperature NH <sub>3</sub> -SCR. <i>Catalysis Communications</i> , <b>2019</b> , 120, 55-58	3.2	18
74	Decomposition behavior of ammonium nitrate on ceria catalysts and its role in the NH <sub>3</sub> -SCR reaction. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2531-2541	5.5	17
73	Synthesizing multilayer graphene from amorphous activated carbon via ammonia-assisted hydrothermal method. <i>Carbon</i> , <b>2019</b> , 152, 24-32	10.4	17
72	Ozone activated Ag/CeO <sub>2</sub> catalysts for soot combustion: The surface and structural influences. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121961	14.7	17
71	NO catalytic oxidation over an ultra-large surface area LaMnO <sub>3</sub> +perovskite synthesized by an acid-etching method. <i>RSC Advances</i> , <b>2016</b> , 6, 69855-69860	3.7	17
70	Optimizing the crystallinity and acidity of H-SAPO-34 by fluoride for synthesizing Cu/SAPO-34 NH <sub>3</sub> -SCR catalyst. <i>Journal of Environmental Sciences</i> , <b>2016</b> , 41, 244-251	6.4	16
69	Improved activity and durability of Rh-based three-way catalyst under diverse aging atmospheres by ZrO support. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 52, 197-203	6.4	16
68	NH <sub>3</sub> -SCR activity, hydrothermal stability and poison resistance of a zirconium phosphate/Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> catalyst in simulated diesel exhaust. <i>RSC Advances</i> , <b>2015</b> , 5, 83594-83599	3.7	16
67	Urea-related reactions and their active sites over Cu-SAPO-34: Formation of NH <sub>3</sub> and conversion of HNCO. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 227, 198-208	21.8	16
66	Effects of tungsten oxide on the activity and thermal stability of a sulfate-derived titania supported platinum catalyst for propane oxidation. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 458-63	6.4	16

65	Roles of Lewis and Brønsted acid sites in NO reduction with ammonia on CeO <sub>2</sub> -ZrO <sub>2</sub> -NiO-SO <sub>4</sub> catalyst. <i>Journal of Rare Earths</i> , <b>2010</b> , 28, 727-731	3.7	16
64	Two-step thermochemical looping using modified ceria-based materials for splitting CO <sub>2</sub> . <i>Journal of Materials Science</i> , <b>2016</b> , 51, 2299-2306	4.3	15
63	Aggregation and redispersion of silver species on alumina and sulphated alumina supports for soot oxidation. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3524-3530	5.5	15
62	A new insight into the effects of barium addition on Pd-only catalysts: Pd-support interface and CO+NO reaction pathway. <i>Applied Catalysis A: General</i> , <b>2015</b> , 501, 17-26	5.1	15
61	Regeneration of Sulfated MnO <sub>x</sub> /CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Soot Oxidation Catalyst by Reduction with Hydrogen. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 716-721	3.9	15
60	A facile ceria/zirconia binary oxide used for degradation of 2-chloroethyl ethyl sulfide. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 6268-6276	4.3	14
59	Potassium poisoning of titania supported deNO <sub>x</sub> catalysts: Preservation of vanadia and sacrifice of tungsten oxide. <i>Chinese Journal of Catalysis</i> , <b>2015</b> , 36, 1287-1294	11.3	14
58	Relationships between copper speciation and Brønsted acidity evolution over Cu-SSZ-13 during hydrothermal aging. <i>Applied Catalysis A: General</i> , <b>2020</b> , 602, 117650	5.1	14
57	Pd/CeO <sub>2</sub> Catalyst of Core/Shell Structure for Low Temperature Oxidation of Toluene Under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1761-1769	3.8	14
56	Re-dispersion of Pd on Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> upon cooling in the presence of oxygen. <i>Catalysis Today</i> , <b>2015</b> , 253, 51-56	5.3	13
55	Study of oxidation-resistant NiCrAl coatings co-deposited by electrophoresis on nickel foams. <i>Scripta Materialia</i> , <b>2006</b> , 55, 107-110	5.6	13
54	Cu-Mn-Ce mixed oxides catalysts for soot oxidation and their mechanistic chemistry. <i>Applied Surface Science</i> , <b>2020</b> , 512, 145602	6.7	12
53	A high-surface-area La-Ce-Mn mixed oxide with enhanced activity for CO and C <sub>3</sub> H <sub>8</sub> oxidation. <i>Catalysis Communications</i> , <b>2018</b> , 105, 26-30	3.2	12
52	Preparation and thermal stability of zirconia-doped mullite fibers via sol-gel method. <i>Progress in Natural Science: Materials International</i> , <b>2011</b> , 21, 117-121	3.6	12
51	NO <sub>2</sub> -aided Soot Oxidation on LaMn <sub>0.7</sub> Ni <sub>0.3</sub> O <sub>3</sub> Perovskite-type Catalyst. <i>Catalysis Letters</i> , <b>2009</b> , 131, 494-499	12	12
50	Critical roles of Cu(OH) <sub>2</sub> in low-temperature moisture-induced degradation of Cu-SAPO-34 SCR catalyst: Correlating reversible and irreversible deactivation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119306	21.8	12
49	Crystal orientation-dependent activity of tungsten-based catalysts for selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2019</b> , 375, 294-303	7.3	11
48	Formation of BaMnO <sub>3</sub> in Ba/MnO <sub>x</sub> /CeO <sub>2</sub> catalyst upon the hydrothermal ageing and its effects on oxide sintering and soot oxidation activity. <i>Catalysis Today</i> , <b>2015</b> , 253, 83-88	5.3	11

47	Robust [emailprotected]/TiO <sub>2</sub> Catalysts for Hydrocarbon Combustion: Effects of Pt-TiO <sub>x</sub> Interaction and Sulfates. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13543-13548	13.1	11
46	Fabrication of hollow-structured FeO-MnO oxidative catalysts with ultra-large surface area. <i>Catalysis Communications</i> , <b>2018</b> , 104, 13-16	3.2	11
45	Sulphation and ammonia regeneration of a Pt/MnO <sub>x</sub> /CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for NO <sub>x</sub> -assisted soot oxidation. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1621-1631	5.5	10
44	Preparation methods and thermal stability of Ba-Mn-Ce oxide catalyst for NO(x)-assisted soot oxidation. <i>Journal of Environmental Sciences</i> , <b>2011</b> , 23, 1205-10	6.4	10
43	Enhanced low-temperature NO oxidation by iron-modified MnO <sub>2</sub> catalysts. <i>Catalysis Communications</i> , <b>2019</b> , 119, 139-143	3.2	10
42	Effects of SiO <sub>2</sub> modification on the hydrothermal stability of the V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> /TiO <sub>2</sub> NH <sub>3</sub> -SCR catalyst: TiO <sub>2</sub> structure and vanadia species. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3711-3720	5.5	9
41	Nanostructured platinum in ordered mesoporous silica as novel efficient catalyst for propane total oxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 30170-30175	3.7	9
40	Thermally stable Ag/Al <sub>2</sub> O <sub>3</sub> confined catalysts with high diffusion-induced oxidation activity. <i>Catalysis Today</i> , <b>2019</b> , 332, 189-194	5.3	9
39	Migration, reactivity, and sulfur tolerance of copper species in SAPO-34 zeolite toward NO <sub>x</sub> reduction with ammonia. <i>RSC Advances</i> , <b>2017</b> , 7, 37787-37796	3.7	9
38	Quantitative control and identification of copper species in Cu/SAPO-34: a combined UV-vis spectroscopic and H <sub>2</sub> -TPR analysis. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 1309-1325	2.8	9
37	A basic comprehensive study on synergetic effects among the metal oxides in CeO <sub>2</sub> -WO <sub>3</sub> /TiO <sub>2</sub> NH <sub>3</sub> -SCR catalyst. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127833	14.7	9
36	Controlled pore size of Pt/KIT-6 used for propane total oxidation. <i>Rare Metals</i> , <b>2018</b> , 37, 123-128	5.5	8
35	Effect of water vapor on sulfur poisoning of MnO <sub>x</sub> /CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for diesel soot oxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 57033-57040	3.7	8
34	The controlled preparation and performance of Fe, Co-modified porous ceria nanorods for the total oxidation of propane. <i>Molecular Catalysis</i> , <b>2020</b> , 480, 110663	3.3	8
33	Highly reactive and thermally stable Ag/YSZ catalysts with macroporous fiber-like morphology for soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 294, 120271	21.8	8
32	Controllable synthesis of supported platinum catalysts: acidic support effect and soot oxidation catalysis. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3268-3274	5.5	7
31	Effects of baria on propane oxidation activity of Pd/Al <sub>2</sub> O <sub>3</sub> catalyst: Pd/BaO interaction and reaction routes. <i>Progress in Natural Science: Materials International</i> , <b>2014</b> , 24, 280-286	3.6	7
30	Role of stable nitrates stored on BaCoCe in soot catalytic oxidation. <i>Catalysis Communications</i> , <b>2010</b> , 11, 749-752	3.2	7



29	Development of uniform and porous Al coatings on FeCrAl substrate by electrophoretic deposition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 287, 16-23	5.1	7
28	Modification of the structure and properties of SAPO-11 using rare earths. <i>Acta Physico-chimica Sinica</i> , <b>2006</b> , 22, 1495-1500		6
27	Structures and catalytic performances of Me/SAPO-34 (Me = Mn, Ni, Co) catalysts for low-temperature SCR of NO by ammonia. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 104, 137-149	6.4	6
26	Modification of MnCo <sub>2</sub> O <sub>x</sub> catalysts by NbO <sub>x</sub> for low temperature selective catalytic reduction of NO with NH <sub>3</sub> . <i>RSC Advances</i> , <b>2016</b> , 6, 97004-97011	3.7	6
25	Quasi-quantification of Cu(II) ions in Cu-SSZ-13 catalyst by an NH <sub>3</sub> temperature-programmed reduction method. <i>Chemical Communications</i> , <b>2021</b> , 57, 1891-1894	5.8	6
24	Ni single atoms anchored on nitrogen-doped graphene as H <sub>2</sub> -Evolution cocatalyst of SrTiO <sub>3</sub> (Al)/CoO <sub>x</sub> for photocatalytic overall water splitting. <i>Carbon</i> , <b>2021</b> , 183, 763-773	10.4	6
23	Modification of PdO/CeO <sub>2</sub> /ZrO <sub>2</sub> catalyst by MnO <sub>x</sub> for water-gas shift reaction: redox property and valence state of Pd. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 5377-5387	4.3	5
22	Effect of SO <sub>2</sub> Treatment at High Temperature on Soot Oxidation Activity of Cu/Te/Al Mixed Oxides. <i>Catalysis Letters</i> , <b>2009</b> , 131, 463-468	2.8	5
21	Tuning nonstoichiometric defects in single-phase MnO <sub>x</sub> for methane complete oxidation. <i>Molecular Catalysis</i> , <b>2019</b> , 467, 120-127	3.3	5
20	V <sub>x</sub> Mn <sub>(4-x)</sub> Mo <sub>3</sub> Ce <sub>3</sub> /Ti catalysts for selective catalytic reduction of NO by NH <sub>3</sub> . <i>Journal of Environmental Sciences</i> , <b>2020</b> , 88, 145-154	6.4	5
19	Nitrogen doped graphene quantum dots as a cocatalyst of SrTiO <sub>3</sub> (Al)/CoO <sub>x</sub> for photocatalytic overall water splitting. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 3039-3046	5.5	5
18	Deactivation of Cu-SAPO-34 by urea-related deposits at low temperatures and the regeneration. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 81, 43-51	6.4	4
17	Deposition of Potassium Salts on Soot Oxidation Activity of Cu-SSZ-13 as a SCRF Catalyst: Laboratory Study. <i>Catalysis Surveys From Asia</i> , <b>2020</b> , 24, 250-258	2.8	3
16	Thermal behavior of zirconia-doped mullite gel fibers. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 213-218	3.6	3
15	Improved Hydrothermal Durability of Cu-SSZ-13 NH <sub>3</sub> -SCR Catalyst by Surface Al Modification: Affinity and Passivation. <i>Journal of Catalysis</i> , <b>2021</b> , 405, 199-199	7.3	3
14	A Facile One Step Synthesis of MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Photocatalyst with Enhanced Visible Light Photocatalytic Hydrogen Production. <i>Catalysis Letters</i> , 1	2.8	3
13	Regeneration of sintered Rh/ZrO <sub>2</sub> catalysts via Rh re-dispersion and Rh/ZrO <sub>2</sub> interaction. <i>Science China Technological Sciences</i> , <b>2016</b> , 59, 1023-1028	3.5	3
12	Size effect of Pt nanoparticles in acid-assisted soot oxidation in the presence of NO. <i>Journal of Environmental Sciences</i> , <b>2020</b> , 94, 64-71	6.4	2

11	ZrO <sub>2</sub> -supported MnO <sub>2</sub> : Improving low-temperature activity and stability for catalytic oxidation of methane. <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 296-300	3.6	2
10	An isolation strategy to anchor atomic Ni or Co cocatalysts on TiO <sub>2</sub> (A) for photocatalytic hydrogen production. <i>Nano Research</i> , 1	10	2
9	A strategy to construct a highly active CoP/SrTiO(A) catalyst to boost the photocatalytic overall water splitting reactions.. <i>Nanoscale</i> , <b>2022</b> ,	7.7	1
8	Effects of MoO <sub>x</sub> on dispersion of vanadia and low-temperature NH <sub>3</sub> -SCR activity of titania supported catalysts: Liquid acidity and steric hindrance. <i>Applied Surface Science</i> , <b>2022</b> , 585, 152710	6.7	1
7	Model Ag/CeO <sub>2</sub> catalysts for soot combustion: Roles of silver species and catalyst stability. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132802	14.7	1
6	Single Atomic Pt on SrTiO <sub>3</sub> Catalyst in Reverse Water Gas Shift Reactions. <i>Catalysts</i> , <b>2021</b> , 11, 738	4	1
5	Controllable synthesis of argentum decorated CuO@CeO catalyst and its highly efficient performance for soot oxidation. <i>Journal of Rare Earths</i> , <b>2021</b> ,	3.7	1
4	Ozone-assisted diesel soot combustion over Mn <sub>2</sub> O <sub>3</sub> catalysts: A tandem work of different reactive phases. <i>Journal of Catalysis</i> , <b>2022</b> , 408, 56-63	7.3	1
3	A simple model catalyst study to distinguish the roles of different oxygen species in propane and soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121331	21.8	1
2	High-surface-area SmMn <sub>2</sub> O <sub>5</sub> nanosheets with crystal orientation for propane combustion: A facile microwave-assisted hydrothermal method. <i>Fuel</i> , <b>2021</b> , 306, 121685	7.1	0
1	Ag-modified SmMn <sub>2</sub> O <sub>5</sub> catalysts for CO and C <sub>3</sub> H <sub>8</sub> oxidation. <i>Catalysis Communications</i> , <b>2022</b> , 167, 106456	5.6	0