

# Honggen Peng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161 papers	3,987 citations	37 h-index	51 g-index
170 ext. papers	5,095 ext. citations	7.3 avg, IF	5.7 L-index

#	Paper	IF	Citations
161	Highly Active CuO/KCCl Catalysts for Low-Temperature CO Oxidation. <i>Processes</i> , <b>2022</b> , 10, 145	2.9	0
160	Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes.. <i>Nature Communications</i> , <b>2022</b> , 13, 295	17.4	9
159	Interface-dependent activity and selectivity for CO <sub>2</sub> hydrogenation on Ni/CeO <sub>2</sub> and Ni/Ce <sub>0.9</sub> Sn <sub>0.1</sub> O <sub>x</sub> . <i>Fuel</i> , <b>2022</b> , 316, 123191	7.1	1
158	Remarkable basic-metal oxides promoted confinement catalysts for CO <sub>2</sub> reforming. <i>Fuel</i> , <b>2022</b> , 315, 123167	7.1	3
157	Confined Ni-In intermetallic alloy nanocatalyst with excellent coking resistance for methane dry reforming. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 34-47	12	18
156	DNA-Assisted Creation of a Library of Ultrasmall Multimetal/Metal Oxide Nanoparticles Confined in Silica.. <i>Small</i> , <b>2022</b> , e2107123	11	1
155	Remarkable Pd/SnO <sub>2</sub> nano-rod catalysts with ultra-low Pd content for toluene combustion: Clarifying the effect of SnO <sub>2</sub> morphology on the valence states of the supported Pd species and the vital role of Pd <sub>0</sub> . <i>Applied Catalysis A: General</i> , <b>2022</b> , 636, 118576	5.1	1
154	Elucidating the role of confinement and shielding effect over zeolite enveloped Ru catalysts for propane low temperature degradation.. <i>Chemosphere</i> , <b>2022</b> , 302, 134884	8.4	
153	Band Gap as a Novel Descriptor for the Reactivity of 2D Titanium Dioxide and its Supported Pt Single Atom for Methane Activation. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2484-2488	6.4	4
152	Expounding the monolayer dispersion threshold effect of SnO <sub>2</sub> /Beta catalysts on the selective catalytic reduction of NO <sub>x</sub> (NO <sub>x</sub> -SCR) by C <sub>3</sub> H <sub>6</sub> . <i>Molecular Catalysis</i> , <b>2021</b> , 504, 111464	3.3	2
151	Insight into the activity and SO <sub>2</sub> tolerance of hierarchically ordered MnFe <sub>1-x</sub> Co <sub>x</sub> O <sub>x</sub> ternary oxides for low-temperature selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2021</b> , 395, 195-209	7.3	15
150	Unraveling the boosting low-temperature performance of ordered mesoporous Cu-SSZ-13 catalyst for NO <sub>x</sub> reduction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128238	14.7	14
149	Facile Cr <sup>3+</sup> -Doping Strategy Dramatically Promoting Ru/CeO <sub>2</sub> for Low-Temperature CO <sub>2</sub> Methanation: Unraveling the Roles of Surface Oxygen Vacancies and Hydroxyl Groups. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5762-5775	13.1	17
148	Tuning Ni <sup>3+</sup> quantity of NiO via doping of cations with varied valence states: The key role of Ni <sup>3+</sup> on the reactivity. <i>Applied Surface Science</i> , <b>2021</b> , 550, 149316	6.7	6
147	Superior 3DOM Y <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> supports for Ni to fabricate highly active and selective catalysts for CO <sub>2</sub> methanation. <i>Fuel</i> , <b>2021</b> , 293, 120460	7.1	7
146	Stable CuO/La <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> catalysts for soot combustion: Study on the monolayer dispersion behavior of CuO over a La <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> pyrochlore support. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 396-408	11.3	11
145	Implanting cation vacancies in Ni-Fe LDHs for efficient oxygen evolution reactions of lithium-oxygen batteries. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 285, 119792	21.8	26

144	Core-shell Confinement MnCeOx@ZSM-5 Catalyst for NOx Removal with Enhanced Performances to Water and SO2 Resistance. <i>Nanostructure Science and Technology</i> , <b>2021</b> , 165-179	0.9	
143	K <sup>+</sup> located in 6-membered rings of low-silica CHA enhancing the lifetime and propene selectivity in MTO. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 6234-6247	5.5	1
142	Metallic Ag Confined on SnO2 Surface for Soot Combustion: the Influence of Ag Distribution and Dispersion on the Reactivity. <i>ChemCatChem</i> , <b>2021</b> , 13, 2222-2233	5.2	2
141	Unraveling the Intrinsic Reasons Promoting the Reactivity of ZnAl2O4 Spinel by Fe and Co for CO Oxidation. <i>Catalysis Surveys From Asia</i> , <b>2021</b> , 25, 180-191	2.8	1
140	Plasma assisted preparation of highly active NiAl2O4 catalysts for propane steam reforming. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 24931-24941	6.7	2
139	Insights into novel mesoporous Cu-SAPO-34 with enhanced deNOx performance for diesel emission control. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 323, 111245	5.3	4
138	Ni/LaBO3 (B = Al, Cr, Fe) Catalysts for Steam Reforming of Methane (SRM): On the Interaction Between Ni and LaBO3 Perovskites with Differed Fine Structures. <i>Catalysis Surveys From Asia</i> , <b>2021</b> , 25, 424	2.8	1
137	Unraveling the Principles of Lattice Disorder Degree of Bi2B2O7 (B = Sn, Ti, Zr) Compounds on Activating Gas Phase O2 for Soot Combustion. <i>ACS Catalysis</i> , <b>2021</b> , 11, 12112-12122	13.1	1
136	Insights into flower-like Al2O3 spheres with rich unsaturated pentacoordinate Al3+ sites stabilizing Ru-CeOx for propane total oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 292, 120171	21.8	10
135	Toward rational design of a novel hierarchical porous Cu-SSZ-13 catalyst with boosted low-temperature NO reduction performance. <i>Journal of Catalysis</i> , <b>2021</b> , 401, 309-320	7.3	2
134	Cost-effective fast-synthesis of chabazite zeolites for the reduction of NOx. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 292, 120163	21.8	12
133	Band-Gap Engineering: A New Tool for Tailoring the Activity of Semiconducting Oxide Catalysts for CO Oxidation. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 9188-9196	6.4	3
132	Trifunctional strategy for the design and synthesis of a Ni-CeO2@SiO2 catalyst with remarkable low-temperature sintering and coking resistance for methane dry reforming. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 1808-1820	11.3	13
131	Study on the Structure-Activity Relationship of LnMn2O5 (Ln = La, Pr, Sm, Y) Mullite Catalysts for Soot Combustion. <i>Chemistry Africa</i> , <b>2020</b> , 3, 695-701	2.2	2
130	Environmental benign synthesis of Nano-SSZ-13 via FAU trans-crystallization: Enhanced NH-SCR performance on Cu-SSZ-13 with nano-size effect. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122986	12.8	26
129	Tin-Containing Layered Double Hydroxides. <i>Petroleum Chemistry</i> , <b>2020</b> , 60, 444-450	1.1	1
128	A2B2O7 pyrochlore compounds: A category of potential materials for clean energy and environment protection catalysis. <i>Journal of Rare Earths</i> , <b>2020</b> , 38, 840-849	3.7	20
127	The distributions of alkaline earth metal oxides and their promotional effects on Ni/CeO2 for CO2 methanation. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 38, 113-124	7.6	30

126	Novel shielding and synergy effects of Mn-Ce oxides confined in mesoporous zeolite for low temperature selective catalytic reduction of NO with enhanced SO/HO tolerance. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 396, 122592	12.8	37
125	Tailoring Active O <sub>2</sub> <sup>2-</sup> and O <sub>2</sub> <sup>2-</sup> Anions on a ZnO Surface with the Addition of Different Alkali Metals Probed by CO Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 9382-9392	3.9	4
124	Hierarchical zeolite enveloping Pd-CeO <sub>2</sub> nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124714-7	14.7	24
123	Influence of Cesium Loading on Oxidative Coupling of Methane (OCM) over Cs/SnO <sub>2</sub> Catalysts. <i>Chemistry Africa</i> , <b>2020</b> , 3, 687-694	2.2	1
122	Investigation of lattice capacity effect on Cu <sup>2+</sup> -doped SnO <sub>2</sub> solid solution catalysts to promote reaction performance toward NO-SCR with NH <sub>3</sub> . <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 877-888	11.3	12
121	One-pot synthesis of layered mesoporous ZSM-5 plus Cu ion-exchange: Enhanced NH-SCR performance on Cu-ZSM-5 with hierarchical pore structures. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121593	12.8	39
120	The promotional effects of plasma treating on Ni/Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> for steam reforming of methane (SRM): Elucidating the NiO-support interaction and the states of the surface oxygen anions. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 4556-4569	6.7	10
119	Hierarchical three-dimensionally ordered macroporous Fe-V binary metal oxide catalyst for low temperature selective catalytic reduction of NO <sub>x</sub> from marine diesel engine exhaust. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118455	21.8	20
118	Regulating SnO <sub>2</sub> surface by metal oxides possessing redox or acidic properties: The importance of active O <sub>2</sub> <sup>2-</sup> and acid sites for toluene deep oxidation. <i>Applied Catalysis A: General</i> , <b>2020</b> , 605, 117755	5.1	4
117	NiO supported on Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlore for CO <sub>2</sub> reforming of CH <sub>4</sub> : insight into the monolayer dispersion threshold effect on coking resistance. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 8396-8409	5.5	2
116	Rutile RuO <sub>2</sub> dispersion on rutile and anatase TiO <sub>2</sub> supports: The effects of support crystalline phase structure on the dispersion behaviors of the supported metal oxides. <i>Catalysis Today</i> , <b>2020</b> , 339, 220-232	5.3	25
115	Identifying Surface Active Sites of SnO <sub>2</sub> : Roles of Surface O <sub>2</sub> <sup>2-</sup> Anions and Acidic Species Played for Toluene Deep Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 18569-18581	2.9	18
114	Catalysts in Coronas: A Surface Spatial Confinement Strategy for High-Performance Catalysts in Methane Dry Reforming. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9072-9080	13.1	56
113	Tuning SnO <sub>2</sub> surface with CuO for soot particulate combustion: The effect of monolayer dispersion capacity on reaction performance. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 905-916	11.3	15
112	Active and stable Pt-Ceria nanowires@silica shell catalyst: Design, formation mechanism and total oxidation of CO and toluene. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117807	21.8	33
111	SnO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for selective reduction of NO <sub>x</sub> by propylene: On the promotional effects of plasma treatment in air atmosphere. <i>Catalysis Today</i> , <b>2019</b> , 337, 171-181	5.3	8
110	Ni/La <sub>2</sub> O <sub>3</sub> Catalysts for Dry Reforming of Methane: Insights into the Factors Improving the Catalytic Performance. <i>ChemCatChem</i> , <b>2019</b> , 11, 2887-2899	5.2	22
109	Exploring the Nanosize Effect of Mordenite Zeolites on Their Performance in the Removal of NO <sub>x</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> ,	3.9	13

108	Effect of rare earth element (Ln = La, Pr, Sm, and Y) on physicochemical properties of the Ni/Ln <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> catalysts for the steam reforming of methane. <i>Molecular Catalysis</i> , <b>2019</b> , 468, 130-138	3.3	18
107	Constructing La <sub>2</sub> B <sub>2</sub> O <sub>7</sub> (B = Ti, Zr, Ce) Compounds with Three Typical Crystalline Phases for the Oxidative Coupling of Methane: The Effect of Phase Structures, Superoxide Anions, and Alkalinity on the Reactivity. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4030-4045	13.1	74
106	Ln <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> compounds (Ln = La, Pr, Sm, Y) with varied rare earth A sites for low temperature oxidative coupling of methane. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1141-1146	8.1	11
105	The Influence of RuO <sub>2</sub> Distribution and Dispersion on the Reactivity of RuO <sub>2</sub> /SnO <sub>2</sub> Composite Oxide Catalysts Probed by CO Oxidation. <i>ChemCatChem</i> , <b>2019</b> , 11, 2473-2483	5.2	5
104	Heterogeneity of polyoxometalates by confining within ordered mesopores: toward efficient oxidation of benzene to phenol. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2173-2179	5.5	8
103	Probing the reactivity and structure relationship of Ln <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> (Ln=La, Pr, Sm and Y) pyrochlore catalysts for CO oxidation. <i>Catalysis Today</i> , <b>2019</b> , 327, 168-176	5.3	22
102	Mechanochemical Nonhydrolytic Sol-Gel-Strategy for the Production of Mesoporous Multimetallic Oxides. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5529-5536	9.6	37
101	Optimizing the Reaction Performance of La <sub>2</sub> Ce <sub>2</sub> O <sub>7</sub> -Based Catalysts for Oxidative Coupling of Methane (OCM) at Lower Temperature by Lattice Doping with Ca Cations. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 183-194	2.3	32
100	LaNiO <sub>3</sub> nanocube embedded in mesoporous silica for dry reforming of methane with enhanced coking resistance. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 266, 189-197	5.3	34
99	In Situ Embedded Pseudo Pd-Sn Solid Solution in Micropores Silica with Remarkable Catalytic Performance for CO and Propane Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9220-9224	9.5	26
98	Methane dry reforming over Ni/Mg-Al-O: On the significant promotional effects of rare earth Ce and Nd metal oxides. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 25, 242-253	7.6	32
97	Ni/Y <sub>2</sub> B <sub>2</sub> O <sub>7</sub> (B Ti, Sn, Zr and Ce) catalysts for methane steam reforming: On the effects of B site replacement. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8298-8312	6.7	21
96	Mesoporous MFI Zeolite with a 2D Square Structure Directed by Surfactants with an Azobenzene Tail Group. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 8615-8623	4.8	12
95	SnO <sub>2</sub> promoted by alkali metal oxides for soot combustion: The effects of surface oxygen mobility and abundance on the activity. <i>Applied Surface Science</i> , <b>2018</b> , 435, 406-414	6.7	46
94	SnO <sub>2</sub> Based Catalysts with Low-Temperature Performance for Oxidative Coupling of Methane: Insight into the Promotional Effects of Alkali-Metal Oxides. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 1787-1799	2.3	26
93	Developing reactive catalysts for low temperature oxidative coupling of methane: On the factors deciding the reaction performance of Ln <sub>2</sub> Ce <sub>2</sub> O <sub>7</sub> with different rare earth A sites. <i>Applied Catalysis A: General</i> , <b>2018</b> , 552, 117-128	5.1	52
92	Synthesis of ultra-small mordenite zeolite nanoparticles. <i>Science China Materials</i> , <b>2018</b> , 61, 1185-1190	7.1	6
91	Nickel nanoparticles embedded in mesopores of AISBA-15 with a perfect peasecod-like structure: A catalyst with superior sintering resistance and hydrothermal stability for methane dry reforming. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 488-499	21.8	75

90	Enhanced toluene combustion performance over Pt loaded hierarchical porous MOR zeolite. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 10-18	14.7	86
89	Tetragonal Rutile SnO <sub>2</sub> Solid Solutions for NO <sub>x</sub> -SCR by NH <sub>3</sub> : Tailoring the Surface Mobile Oxygen and Acidic Sites by Lattice Doping. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 10315-10326	3.9	19
88	Freestanding Cobalt-Aluminum Oxides on USY Zeolite as an Efficient Catalyst for Selective Catalytic Reduction of NO <sub>x</sub> . <i>ChemCatChem</i> , <b>2018</b> , 10, 4074-4083	5.2	8
87	Design of Stable Ultrasmall PtNi(O) Nanoparticles with Enhanced Catalytic Performance: Insights into the Effects of PtNiNiO Dual Interfaces. <i>ChemCatChem</i> , <b>2018</b> , 10, 4134-4142	5.2	10
86	Engineering Ni <sup>3+</sup> Cations in NiO Lattice at the Atomic Level by Li <sup>+</sup> Doping: The Roles of Ni <sup>3+</sup> and Oxygen Species for CO Oxidation. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8033-8045	13.1	62
85	Design of Ni-ZrO <sub>2</sub> @SiO <sub>2</sub> catalyst with ultra-high sintering and coking resistance for dry reforming of methane to prepare syngas. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 27, 297-307	7.6	74
84	Double-shelled hollow LaNiO <sub>3</sub> nanocage as nanoreactors with remarkable catalytic performance: Illustrating the special morphology and performance relationship. <i>Molecular Catalysis</i> , <b>2018</b> , 455, 57-67	3.3	17
83	Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11129-11133	13	122
82	Strategic use of CuAlO as a sustained release catalyst for production of hydrogen from methanol steam reforming. <i>Chemical Communications</i> , <b>2018</b> , 54, 12242-12245	5.8	14
81	CuNiAl Spinel Oxide as an Efficient Durable Catalyst for Methanol Steam Reforming. <i>ChemCatChem</i> , <b>2018</b> , 10, 5698-5706	5.2	15
80	Tuning SnO <sub>2</sub> Surface Area for Catalytic Toluene Deep Oxidation: On the Inherent Factors Determining the Reactivity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14052-14063	3.9	26
79	Design and Synthesis of Cu/ZSM-5 Catalyst via a Facile One-Pot Dual-Template Strategy with Controllable Cu Content for Removal of NO <sub>x</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14967-14976	3.9	16
78	Three-dimensionally ordered macroporous SnO <sub>2</sub> -based solid solution catalysts for effective soot oxidation. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 1683-1694	11.3	18
77	Confined Ultrathin Pd-Ce Nanowires with Outstanding Moisture and SO Tolerance in Methane Combustion. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8953-8957	16.4	80
76	The influence on the structural and redox property of CuO by using different precursors and precipitants for catalytic soot combustion. <i>Applied Surface Science</i> , <b>2018</b> , 453, 204-213	6.7	20
75	Confined Ultrathin Pd-Ce Nanowires with Outstanding Moisture and SO <sub>2</sub> Tolerance in Methane Combustion. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 9091-9095	3.6	18
74	Ag supported on meso-structured SiO <sub>2</sub> with different morphologies for CO oxidation: On the inherent factors influencing the activity of Ag catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 242, 90-98	5.3	20
73	CO oxidation on PdO catalysts with perfect and defective rutile-TiO <sub>2</sub> as supports: Elucidating the role of oxygen vacancy in support by DFT calculations. <i>Applied Surface Science</i> , <b>2017</b> , 401, 49-56	6.7	5



72	La-doped Pt/TiO <sub>2</sub> as an efficient catalyst for room temperature oxidation of low concentration HCHO. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 39-47	11.3	25
71	Synthesis of a Highly Active and Stable Nickel-Embedded Alumina Catalyst for Methane Dry Reforming: On the Confinement Effects of Alumina Shells for Nickel Nanoparticles. <i>ChemCatChem</i> , <b>2017</b> , 9, 3563-3571	5.2	30
70	Ni Supported on LaFeO <sub>3</sub> Perovskites for Methane Steam Reforming: On the Promotional Effects of Plasma Treatment in H <sub>2</sub> /Ar Atmosphere. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 831-842	2.3	17
69	SnO <sub>2</sub> nano-rods promoted by In, Cr and Al cations for toluene total oxidation: The impact of oxygen property and surface acidity on the catalytic activity. <i>Applied Surface Science</i> , <b>2017</b> , 420, 186-195	6.7	30
68	Modifying the Surface of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> with Y-Sn-O Pyrochlore: Monolayer Dispersion Behaviour of Composite Oxides. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1533-1540	3.2	8
67	Ni/Ln <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> (Ln = La, Pr, Sm and Y) catalysts for methane steam reforming: the effects of A site replacement. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2729-2743	5.5	46
66	Temperature dependence of CuAl spinel formation and its catalytic performance in methanol steam reforming. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 5069-5078	5.5	23
65	Mesoporous high surface area NiO synthesized with soft templates: Remarkable for catalytic CH <sub>4</sub> deep oxidation. <i>Molecular Catalysis</i> , <b>2017</b> , 441, 81-91	3.3	60
64	Facile Hydrothermal Synthesis of Sn-Mn Mixed Oxide Nano-rods with Exposed (110) Facets and Remarkable Catalytic Performance. <i>ChemistrySelect</i> , <b>2017</b> , 2, 6364-6369	1.8	1
63	One-Pot Facile Fabrication of Multiple Nickel Nanoparticles Confined in Microporous Silica Giving a Multiple-Cores@Shell Structure as a Highly Efficient Catalyst for Methane Dry Reforming. <i>ChemCatChem</i> , <b>2017</b> , 9, 127-136	5.2	49
62	Mesoporous Y <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> pyrochlore with exposed (111) facets: an active and stable catalyst for CO oxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 71791-71799	3.7	12
61	Treating Copper(II) Oxide Nanoflowers with Hydrogen Peroxide: A Novel and Facile Strategy To Prepare High-Performance Copper(II) Oxide Nanosheets with Exposed (1 1 0) Facets. <i>ChemCatChem</i> , <b>2016</b> , 8, 3714-3719	5.2	10
60	O <sub>2</sub> adsorption on MO <sub>2</sub> (M=Ru, Ir, Sn) films supported on rutile TiO <sub>2</sub> (110) by DFT calculations: Probing the nature of metal oxide-support interaction. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 473, 100-111	9.3	8
59	Highly active and stable Ni/Y <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> catalysts for methane steam reforming: On the nature and effective preparation method of the pyrochlore support. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11141-11153	6.7	37
58	Thermally stable ultra-small Pd nanoparticles encapsulated by silica: elucidating the factors determining the inherent activity of noble metal catalysts. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 5405-5414	5.5	24
57	Elucidating the promotional effects of niobia on SnO <sub>2</sub> for CO oxidation: developing an XRD extrapolation method to measure the lattice capacity of solid solutions. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 5280-5291	5.5	28
56	Mesoporous High-Surface-Area Copper-In Mixed-Oxide Nanorods: Remarkable for Carbon Monoxide Oxidation. <i>ChemCatChem</i> , <b>2016</b> , 8, 2329-2334	5.2	8
55	Dry reforming of methane on active and coke resistant Ni/Y <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> catalysts treated by dielectric barrier discharge plasma. <i>Journal of Energy Chemistry</i> , <b>2016</b> , 25, 825-831	12	34

54	Reshaping CuO on silica to generate a highly active Cu/SiO <sub>2</sub> catalyst. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 6311-6319	5.5	18
53	H <sub>2</sub> adsorption and dissociation on PdO(101) films supported on rutile TiO <sub>2</sub> (110) facet: elucidating the support effect by DFT calculations. <i>Journal of Molecular Modeling</i> , <b>2016</b> , 22, 204	2	1
52	SnO <sub>2</sub> -based solid solutions for CH <sub>4</sub> deep oxidation: Quantifying the lattice capacity of SnO <sub>2</sub> using an X-ray diffraction extrapolation method. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1293-1302	11.3	17
51	Modifying Hopcalite catalyst by SnO <sub>2</sub> addition: An effective way to improve its moisture tolerance and activity for low temperature CO oxidation. <i>Applied Catalysis A: General</i> , <b>2016</b> , 525, 204-214	5.1	31
50	Porous NiO nano-sheet as an active and stable catalyst for CH <sub>4</sub> deep oxidation. <i>Applied Catalysis A: General</i> , <b>2015</b> , 507, 109-118	5.1	46
49	Methane dry reforming on Ni/La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> treated by plasma in different atmospheres. <i>Journal of Energy Chemistry</i> , <b>2015</b> , 24, 416-424	12	39
48	Improving water tolerance of Co <sub>3</sub> O <sub>4</sub> by SnO <sub>2</sub> addition for CO oxidation. <i>Applied Surface Science</i> , <b>2015</b> , 355, 1254-1260	6.7	55
47	Methane Dry Reforming over Coke-Resistant Mesoporous Ni-Al <sub>2</sub> O <sub>3</sub> Catalysts Prepared by Evaporation-Induced Self-Assembly Method. <i>ChemCatChem</i> , <b>2015</b> , 7, 3753-3762	5.2	48
46	Facile preparation of mesoporous Cu <sub>2</sub> Sn solid solutions as active catalysts for CO oxidation. <i>RSC Advances</i> , <b>2015</b> , 5, 25755-25764	3.7	32
45	Sn-MFI as active, sulphur and water tolerant catalysts for selective reduction of NO <sub>x</sub> . <i>RSC Advances</i> , <b>2015</b> , 5, 42789-42797	3.7	21
44	SnO <sub>2</sub> nano-sheet as an efficient catalyst for CO oxidation. <i>Chinese Journal of Catalysis</i> , <b>2015</b> , 36, 2004-2010	11.3	15
43	High surface area La <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> pyrochlore as a novel, active and stable support for Pd for CO oxidation. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2270-2281	5.5	50
42	Tuning Al <sub>2</sub> O <sub>3</sub> Surface with SnO <sub>2</sub> to Prepare Improved Supports for Pd for CO Oxidation. <i>ChemCatChem</i> , <b>2014</b> , 6, 1604-1611	5.2	38
41	Tin Modification on Ni/Al <sub>2</sub> O <sub>3</sub> : Designing Potent Coke-Resistant Catalysts for the Dry Reforming of Methane. <i>ChemCatChem</i> , <b>2014</b> , 6, 2095-2104	5.2	54
40	SnO <sub>2</sub> nano-rods with superior CO oxidation performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5616-5619	11.3	33
39	A novel supported Cu catalyst with highly dispersed copper nanoparticles and its remarkable catalytic performance in methanol decomposition. <i>RSC Advances</i> , <b>2014</b> , 4, 52008-52011	3.7	6
38	Promotional effects of samarium on Co <sub>3</sub> O <sub>4</sub> spinel for CO and CH <sub>4</sub> oxidation. <i>Journal of Rare Earths</i> , <b>2014</b> , 32, 159-169	3.7	29
37	Ni <sub>2</sub> Co/Al <sub>2</sub> O <sub>3</sub> Bimetallic Catalysts for CH <sub>4</sub> Steam Reforming: Elucidating the Role of Co for Improving Coke Resistance. <i>ChemCatChem</i> , <b>2014</b> , 6, 3377-3386	5.2	61



36	Nickel-Supported on La <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> and La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Pyrochlores for Methane Steam Reforming: Insight into the Difference between Tin and Zirconium in the B Site of the Compound. <i>ChemCatChem</i> , <b>2014</b> , 6, 3366-3376	5.2	58
35	Pd Supported on SnO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Composite Supports for CO Oxidation [Designing Thermally Stable and Active Supports for Pd. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2014</b> , 228, 27-48	3.1	8
34	Selective skeletal isomerization of 1-butene over FER-type zeolites derived from PLS-3 lamellar precursors. <i>Applied Catalysis A: General</i> , <b>2013</b> , 455, 107-113	5.1	25
33	Clean Synthesis of Amides over Bifunctional Catalysts of Rhodium-Loaded Titanosilicates. <i>ChemCatChem</i> , <b>2013</b> , 5, 2462-2470	5.2	10
32	Trimodel hierarchical yolk-shell porous materials TS-1@mesocarbon: Synthesis and catalytic application. <i>Chinese Chemical Letters</i> , <b>2013</b> , 24, 559-562	8.1	5
31	One-pot synthesis of primary amides on bifunctional Rh(OH) <sub>x</sub> /TS-1@KCC-1 catalysts. <i>Chinese Journal of Catalysis</i> , <b>2013</b> , 34, 2057-2065	11.3	14
30	CO oxidation on Ta-Modified SnO <sub>2</sub> solid solution catalysts. <i>Solid State Sciences</i> , <b>2013</b> , 20, 103-109	3.4	13
29	One-pot synthesis of benzamide over a robust tandem catalyst based on center radially fibrous silica encapsulated TS-1. <i>Chemical Communications</i> , <b>2013</b> , 49, 2709-11	5.8	47
28	Effects of La, Ce, and Y Oxides on SnO <sub>2</sub> Catalysts for CO and CH <sub>4</sub> Oxidation. <i>ChemCatChem</i> , <b>2013</b> , 5, 2025-2036	5.2	54
27	Hydrothermal synthesis of MWW-type stannosilicate and its post-structural transformation to MCM-56 analogue. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 165, 210-218	5.3	28
26	Core-shell-Structured Titanosilicate As A Robust Catalyst for Cyclohexanone Ammoximation. <i>ACS Catalysis</i> , <b>2013</b> , 3, 103-110	13.1	45
25	Multilayer structured MFI-type titanosilicate: Synthesis and catalytic properties in selective epoxidation of bulky molecules. <i>Journal of Catalysis</i> , <b>2012</b> , 288, 16-23	7.3	81
24	Synthesis and formation mechanism of TS-1@mesosilica core-shell materials templated by triblock copolymer surfactant. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 153, 8-17	5.3	19
23	Synthesis of core-shell structured TS-1@mesocarbon materials and their applications as a tandem catalyst. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14219		24
22	Study on ceria-modified SnO <sub>2</sub> for CO and CH <sub>4</sub> oxidation. <i>Journal of Rare Earths</i> , <b>2012</b> , 30, 1013-1019	3.7	22
21	Study on RuO <sub>2</sub> /SnO <sub>2</sub> : Novel and Active Catalysts for CO and CH <sub>4</sub> Oxidation. <i>ChemCatChem</i> , <b>2012</b> , 4, 1122-1132	5.2	47
20	Preparation and characterization of SnO <sub>2</sub> catalysts for CO and CH <sub>4</sub> oxidation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2012</b> , 106, 113-125	1.6	31
19	SnO <sub>2</sub> Promoted by Praseodymia: Novel Catalysts for CO Oxidation. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2012</b> , 226, 275-290	3.1	7

18	Synthesis of bifunctional catalyst Au/TS-1@Mesosilica and applied for direct propylene epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Scientia Sinica Chimica</i> , <b>2012</b> , 42, 548-557 <sup>1.6</sup>	2
17	Core/shell-structured Al-MWW@B-MWW zeolites for shape-selective toluene disproportionation to para-xylene. <i>Journal of Catalysis</i> , <b>2011</b> , 283, 168-177	7.3 31
16	Core/shell-structured TS-1@mesoporous silica-supported Au nanoparticles for selective epoxidation of propylene with H <sub>2</sub> and O <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10852	75
15	Designing the activity/selectivity of surface acidic, basic and redox active sites in the supported K <sub>2</sub> O/V <sub>2</sub> O <sub>5</sub> /Al <sub>2</sub> O <sub>3</sub> catalytic system. <i>Catalysis Today</i> , <b>2004</b> , 96, 211-222	5.3 42
14	Mechanism of the Selective Reduction of NO <sub>x</sub> over Co/MFI: Comparison with Fe/MFI. <i>Journal of Catalysis</i> , <b>2001</b> , 197, 281-291	7.3 75
13	Preparation and Characterization of SnO <sub>2</sub> -Based Composite Metal Oxides: Active and Thermally Stable Catalysts for CH <sub>4</sub> Oxidation. <i>Catalysis Letters</i> , <b>2001</b> , 75, 73-80	2.8 37
12	The promotion effects of Ba on manganese oxide for CH <sub>4</sub> deep oxidation. <i>Catalysis Letters</i> , <b>2001</b> , 72, 51-57	2.8 25
11	Total Oxidation of CH <sub>4</sub> on Iron-Promoted tin Oxide: Novel and Thermally Stable Catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2001</b> , 72, 229-237	22
10	Low-Temperature CH <sub>4</sub> Total Oxidation on Catalysts Based on High Surface Area SnO <sub>2</sub> . <i>Reaction Kinetics and Catalysis Letters</i> , <b>2001</b> , 72, 115-123	20
9	Selective reduction of NO <sub>x</sub> with hydrocarbons over Co/MFI prepared by sublimation of CoBr <sub>2</sub> and other methods. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 29, 47-60	21.8 80
8	Total oxidation of CH <sub>4</sub> on Sn-Cr composite oxide catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 35, 85-94	21.8 51
7	Characterization of Ag and Ba-modified manganese oxide catalysts: unraveling the factors leading to their enhanced CH <sub>4</sub> oxidation activity. <i>New Journal of Chemistry</i> , <b>2001</b> , 25, 964-969	3.6 20
6	CH <sub>4</sub> deep oxidation over active and thermally stable catalysts based on Sn-Cr composite oxide. <i>New Journal of Chemistry</i> , <b>2001</b> , 25, 1621-1626	3.6 9
5	Catalytic reduction of NO <sub>x</sub> by hydrocarbons over Co/ZSM-5 catalysts prepared with different methods. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 26, L227-L239	21.8 116
4	Total Oxidation of Methane Over La, Ce and Y Modified Manganese Oxide Catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2000</b> , 71, 3-11	8
3	Deep Oxidation of Methane Over Manganese Oxide Modified by Mg, Ca, Sr and Ba Additives. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2000</b> , 71, 263-271	7
2	Deep Oxidation of Methane Over Cu and Ag Modified Manganese Oxide Catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2000</b> , 71, 121-128	5
1	A <sub>1</sub> Nb <sub>5</sub> O <sub>13</sub> (A = Li, Na, K) Perovskites with Different Fine Structures for Oxidative Coupling of Methane: Tracing the Crystalline Phase Effect on the Surface Active Sites. <i>Journal of Physical Chemistry C</i> ,	3.8 1

