

Honggen Peng

List of Publications by Citations

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|--------------------|-------------------------|----------------|----------------|
| 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 | Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11129-11133 | 13 | 122 |
| 160 | Catalytic reduction of NO _x by hydrocarbons over Co/ZSM-5 catalysts prepared with different methods. <i>Applied Catalysis B: Environmental</i> , 2000 , 26, L227-L239 | 21.8 | 116 |
| 159 | Enhanced toluene combustion performance over Pt loaded hierarchical porous MOR zeolite. <i>Chemical Engineering Journal</i> , 2018 , 334, 10-18 | 14.7 | 86 |
| 158 | Multilayer structured MFI-type titanasilicate: Synthesis and catalytic properties in selective epoxidation of bulky molecules. <i>Journal of Catalysis</i> , 2012 , 288, 16-23 | 7.3 | 81 |
| 157 | Selective reduction of NO _x with hydrocarbons over Co/MFI prepared by sublimation of CoBr ₂ and other methods. <i>Applied Catalysis B: Environmental</i> , 2001 , 29, 47-60 | 21.8 | 80 |
| 156 | Confined Ultrathin Pd-Ce Nanowires with Outstanding Moisture and SO Tolerance in Methane Combustion. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8953-8957 | 16.4 | 80 |
| 155 | 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> , 2018 , 224, 488-499 | 21.8 | 75 |
| 154 | Core/shell-structured TS-1@mesoporous silica-supported Au nanoparticles for selective epoxidation of propylene with H ₂ and O ₂ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 10852 | | 75 |
| 153 | Mechanism of the Selective Reduction of NO _x over Co/MFI: Comparison with Fe/MFI. <i>Journal of Catalysis</i> , 2001 , 197, 281-291 | 7.3 | 75 |
| 152 | Constructing La ₂ B ₂ O ₇ (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> , 2019 , 9, 4030-4045 | 13.1 | 74 |
| 151 | Design of Ni-ZrO ₂ @SiO ₂ catalyst with ultra-high sintering and coking resistance for dry reforming of methane to prepare syngas. <i>Journal of CO₂ Utilization</i> , 2018 , 27, 297-307 | 7.6 | 74 |
| 150 | Engineering Ni ³⁺ Cations in NiO Lattice at the Atomic Level by Li ⁺ Doping: The Roles of Ni ³⁺ and Oxygen Species for CO Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 8033-8045 | 13.1 | 62 |
| 149 | Ni ₂ Co/Al ₂ O ₃ Bimetallic Catalysts for CH ₄ Steam Reforming: Elucidating the Role of Co for Improving Coke Resistance. <i>ChemCatChem</i> , 2014 , 6, 3377-3386 | 5.2 | 61 |
| 148 | Mesoporous high surface area NiO synthesized with soft templates: Remarkable for catalytic CH ₄ deep oxidation. <i>Molecular Catalysis</i> , 2017 , 441, 81-91 | 3.3 | 60 |
| 147 | Nickel-Supported on La ₂ Sn ₂ O ₇ and La ₂ Zr ₂ O ₇ Pyrochlores for Methane Steam Reforming: Insight into the Difference between Tin and Zirconium in the B Site of the Compound. <i>ChemCatChem</i> , 2014 , 6, 3366-3376 | 5.2 | 58 |
| 146 | Catalysts in Coronas: A Surface Spatial Confinement Strategy for High-Performance Catalysts in Methane Dry Reforming. <i>ACS Catalysis</i> , 2019 , 9, 9072-9080 | 13.1 | 56 |
| 145 | Improving water tolerance of Co ₃ O ₄ by SnO ₂ addition for CO oxidation. <i>Applied Surface Science</i> , 2015 , 355, 1254-1260 | 6.7 | 55 |

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|-----|---|------|----|
| 144 | Tin Modification on Ni/Al ₂ O ₃ : Designing Potent Coke-Resistant Catalysts for the Dry Reforming of Methane. <i>ChemCatChem</i> , 2014 , 6, 2095-2104 | 5.2 | 54 |
| 143 | Effects of La, Ce, and Y Oxides on SnO ₂ Catalysts for CO and CH ₄ Oxidation. <i>ChemCatChem</i> , 2013 , 5, 2025-2036 | 5.2 | 54 |
| 142 | Developing reactive catalysts for low temperature oxidative coupling of methane: On the factors deciding the reaction performance of Ln ₂ Ce ₂ O ₇ with different rare earth A sites. <i>Applied Catalysis A: General</i> , 2018 , 552, 117-128 | 5.1 | 52 |
| 141 | Total oxidation of CH ₄ on Sn-Cr composite oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2001 , 35, 85-94 | 21.8 | 51 |
| 140 | High surface area La ₂ Sn ₂ O ₇ pyrochlore as a novel, active and stable support for Pd for CO oxidation. <i>Catalysis Science and Technology</i> , 2015 , 5, 2270-2281 | 5.5 | 50 |
| 139 | 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> , 2017 , 9, 127-136 | 5.2 | 49 |
| 138 | Methane Dry Reforming over Coke-Resistant Mesoporous Ni-Al ₂ O ₃ Catalysts Prepared by Evaporation-Induced Self-Assembly Method. <i>ChemCatChem</i> , 2015 , 7, 3753-3762 | 5.2 | 48 |
| 137 | One-pot synthesis of benzamide over a robust tandem catalyst based on center radially fibrous silica encapsulated TS-1. <i>Chemical Communications</i> , 2013 , 49, 2709-11 | 5.8 | 47 |
| 136 | Study on RuO ₂ /SnO ₂ : Novel and Active Catalysts for CO and CH ₄ Oxidation. <i>ChemCatChem</i> , 2012 , 4, 1122-1132 | 5.2 | 47 |
| 135 | Ni/Ln ₂ Zr ₂ O ₇ (Ln = La, Pr, Sm and Y) catalysts for methane steam reforming: the effects of A site replacement. <i>Catalysis Science and Technology</i> , 2017 , 7, 2729-2743 | 5.5 | 46 |
| 134 | Porous NiO nano-sheet as an active and stable catalyst for CH ₄ deep oxidation. <i>Applied Catalysis A: General</i> , 2015 , 507, 109-118 | 5.1 | 46 |
| 133 | SnO ₂ promoted by alkali metal oxides for soot combustion: The effects of surface oxygen mobility and abundance on the activity. <i>Applied Surface Science</i> , 2018 , 435, 406-414 | 6.7 | 46 |
| 132 | Core-Shell-Structured Titanosilicate As A Robust Catalyst for Cyclohexanone Ammoximation. <i>ACS Catalysis</i> , 2013 , 3, 103-110 | 13.1 | 45 |
| 131 | Designing the activity/selectivity of surface acidic, basic and redox active sites in the supported K ₂ O/V ₂ O ₅ /Al ₂ O ₃ catalytic system. <i>Catalysis Today</i> , 2004 , 96, 211-222 | 5.3 | 42 |
| 130 | Methane dry reforming on Ni/La ₂ Zr ₂ O ₇ treated by plasma in different atmospheres. <i>Journal of Energy Chemistry</i> , 2015 , 24, 416-424 | 12 | 39 |
| 129 | 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> , 2020 , 385, 121593 | 12.8 | 39 |
| 128 | Tuning Al ₂ O ₃ Surface with SnO ₂ to Prepare Improved Supports for Pd for CO Oxidation. <i>ChemCatChem</i> , 2014 , 6, 1604-1611 | 5.2 | 38 |
| 127 | Novel shielding and synergy effects of Mn-Ce oxides confined in mesoporous zeolite for low temperature selective catalytic reduction of NO with enhanced SO/H ₂ O tolerance. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122592 | 12.8 | 37 |

- 126 Highly active and stable Ni/Y₂Zr₂O₇ catalysts for methane steam reforming: On the nature and effective preparation method of the pyrochlore support. *International Journal of Hydrogen Energy*, **2016**, 41, 11141-11153 6.7 37
- 125 Mechanochemical Nonhydrolytic Sol-Gel Strategy for the Production of Mesoporous Multimetallic Oxides. *Chemistry of Materials*, **2019**, 31, 5529-5536 9.6 37
- 124 Preparation and Characterization of SnO₂-Based Composite Metal Oxides: Active and Thermally Stable Catalysts for CH₄ Oxidation. *Catalysis Letters*, **2001**, 75, 73-80 2.8 37
- 123 LaNiO₃ nanocube embedded in mesoporous silica for dry reforming of methane with enhanced coking resistance. *Microporous and Mesoporous Materials*, **2018**, 266, 189-197 5.3 34
- 122 Dry reforming of methane on active and coke resistant Ni/Y₂Zr₂O₇ catalysts treated by dielectric barrier discharge plasma. *Journal of Energy Chemistry*, **2016**, 25, 825-831 12 34
- 121 Active and stable Pt-Ceria nanowires@silica shell catalyst: Design, formation mechanism and total oxidation of CO and toluene. *Applied Catalysis B: Environmental*, **2019**, 256, 117807 21.8 33
- 120 SnO₂ nano-rods with superior CO oxidation performance. *Journal of Materials Chemistry A*, **2014**, 2, 5616-5619 33
- 119 Methane dry reforming over Ni/Mg-Al-O: On the significant promotional effects of rare earth Ce and Nd metal oxides. *Journal of CO₂ Utilization*, **2018**, 25, 242-253 7.6 32
- 118 Facile preparation of mesoporous Cu₂Bn solid solutions as active catalysts for CO oxidation. *RSC Advances*, **2015**, 5, 25755-25764 3.7 32
- 117 Optimizing the Reaction Performance of La₂Ce₂O₇-Based Catalysts for Oxidative Coupling of Methane (OCM) at Lower Temperature by Lattice Doping with Ca Cations. *European Journal of Inorganic Chemistry*, **2019**, 2019, 183-194 2.3 32
- 116 Preparation and characterization of SnO₂ catalysts for CO and CH₄ oxidation. *Reaction Kinetics, Mechanisms and Catalysis*, **2012**, 106, 113-125 1.6 31
- 115 Core/shell-structured Al-MWW@B-MWW zeolites for shape-selective toluene disproportionation to para-xylene. *Journal of Catalysis*, **2011**, 283, 168-177 7.3 31
- 114 Modifying Hopcalite catalyst by SnO₂ addition: An effective way to improve its moisture tolerance and activity for low temperature CO oxidation. *Applied Catalysis A: General*, **2016**, 525, 204-214 5.1 31
- 113 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. *ChemCatChem*, **2017**, 9, 3563-3571 5.2 30
- 112 SnO₂ 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. *Applied Surface Science*, **2017**, 420, 186-195 6.7 30
- 111 The distributions of alkaline earth metal oxides and their promotional effects on Ni/CeO₂ for CO₂ methanation. *Journal of CO₂ Utilization*, **2020**, 38, 113-124 7.6 30
- 110 Promotional effects of samarium on Co₃O₄ spinel for CO and CH₄ oxidation. *Journal of Rare Earths*, **2014**, 32, 159-169 3.7 29
- 109 Elucidating the promotional effects of niobia on SnO₂ for CO oxidation: developing an XRD extrapolation method to measure the lattice capacity of solid solutions. *Catalysis Science and Technology*, **2016**, 6, 5280-5291 5.5 28

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| 108 | Hydrothermal synthesis of MWW-type stannosilicate and its post-structural transformation to MCM-56 analogue. <i>Microporous and Mesoporous Materials</i> , 2013 , 165, 210-218 | 5.3 | 28 |
| 107 | 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> , 2020 , 398, 122986 | 12.8 | 26 |
| 106 | In Situ Embedded Pseudo Pd-Sn Solid Solution in Micropores Silica with Remarkable Catalytic Performance for CO and Propane Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9220-9224 | 9.5 | 26 |
| 105 | SnO ₂ 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> , 2018 , 2018, 1787-1799 | 2.3 | 26 |
| 104 | Implanting cation vacancies in Ni-Fe LDHs for efficient oxygen evolution reactions of lithium-oxygen batteries. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119792 | 21.8 | 26 |
| 103 | Tuning SnO ₂ Surface Area for Catalytic Toluene Deep Oxidation: On the Inherent Factors Determining the Reactivity. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14052-14063 | 3.9 | 26 |
| 102 | La-doped Pt/TiO ₂ as an efficient catalyst for room temperature oxidation of low concentration HCHO. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 39-47 | 11.3 | 25 |
| 101 | Selective skeletal isomerization of 1-butene over FER-type zeolites derived from PLS-3 lamellar precursors. <i>Applied Catalysis A: General</i> , 2013 , 455, 107-113 | 5.1 | 25 |
| 100 | The promotion effects of Ba on manganese oxide for CH ₄ deep oxidation. <i>Catalysis Letters</i> , 2001 , 72, 51-57 | 2.8 | 25 |
| 99 | Rutile RuO ₂ dispersion on rutile and anatase TiO ₂ supports: The effects of support crystalline phase structure on the dispersion behaviors of the supported metal oxides. <i>Catalysis Today</i> , 2020 , 339, 220-232 | 5.3 | 25 |
| 98 | Hierarchical zeolite enveloping Pd-CeO ₂ nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. <i>Chemical Engineering Journal</i> , 2020 , 393, 124714 | 14.7 | 24 |
| 97 | 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> , 2016 , 6, 5405-5414 | 5.5 | 24 |
| 96 | Synthesis of core-shell structured TS-1@mesocarbon materials and their applications as a tandem catalyst. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14219 | | 24 |
| 95 | Temperature dependence of Cu ₂ Al spinel formation and its catalytic performance in methanol steam reforming. <i>Catalysis Science and Technology</i> , 2017 , 7, 5069-5078 | 5.5 | 23 |
| 94 | Ni/La ₂ O ₃ Catalysts for Dry Reforming of Methane: Insights into the Factors Improving the Catalytic Performance. <i>ChemCatChem</i> , 2019 , 11, 2887-2899 | 5.2 | 22 |
| 93 | Probing the reactivity and structure relationship of Ln ₂ Sn ₂ O ₇ (Ln=La, Pr, Sm and Y) pyrochlore catalysts for CO oxidation. <i>Catalysis Today</i> , 2019 , 327, 168-176 | 5.3 | 22 |
| 92 | Study on ceria-modified SnO ₂ for CO and CH ₄ oxidation. <i>Journal of Rare Earths</i> , 2012 , 30, 1013-1019 | 3.7 | 22 |
| 91 | Total Oxidation of ch ₄ on Iron-Promoted tin Oxide: Novel and Thermally Stable Catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 2001 , 72, 229-237 | | 22 |

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| 90 | Ni/Y2B2O7 (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> , 2018 , 43, 8298-8312 | 6.7 | 21 |
| 89 | Sn-MFI as active, sulphur and water tolerant catalysts for selective reduction of NOx. <i>RSC Advances</i> , 2015 , 5, 42789-42797 | 3.7 | 21 |
| 88 | Ag supported on meso-structured SiO ₂ with different morphologies for CO oxidation: On the inherent factors influencing the activity of Ag catalysts. <i>Microporous and Mesoporous Materials</i> , 2017 , 242, 90-98 | 5.3 | 20 |
| 87 | A2B2O7 pyrochlore compounds: A category of potential materials for clean energy and environment protection catalysis. <i>Journal of Rare Earths</i> , 2020 , 38, 840-849 | 3.7 | 20 |
| 86 | Low-Temperature CH ₄ Total Oxidation on Catalysts Based on High Surface Area SnO ₂ . <i>Reaction Kinetics and Catalysis Letters</i> , 2001 , 72, 115-123 | | 20 |
| 85 | Characterization of Ag and Ba-modified manganese oxide catalysts: unraveling the factors leading to their enhanced CH ₄ oxidation activity. <i>New Journal of Chemistry</i> , 2001 , 25, 964-969 | 3.6 | 20 |
| 84 | Hierarchical three-dimensionally ordered macroporous Fe-V binary metal oxide catalyst for low temperature selective catalytic reduction of NOx from marine diesel engine exhaust. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118455 | 21.8 | 20 |
| 83 | 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> , 2018 , 453, 204-213 | 6.7 | 20 |
| 82 | Tetragonal Rutile SnO ₂ Solid Solutions for NOx-SCR by NH ₃ : Tailoring the Surface Mobile Oxygen and Acidic Sites by Lattice Doping. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10315-10326 | 3.9 | 19 |
| 81 | Synthesis and formation mechanism of TS-1@mesosilica core-shell materials templated by triblock copolymer surfactant. <i>Microporous and Mesoporous Materials</i> , 2012 , 153, 8-17 | 5.3 | 19 |
| 80 | Identifying Surface Active Sites of SnO ₂ : Roles of Surface O ₂ ⁻ , O ₂ ²⁻ Anions and Acidic Species Played for Toluene Deep Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18569-18581 | 3.9 | 18 |
| 79 | Effect of rare earth element (Ln = La, Pr, Sm, and Y) on physicochemical properties of the Ni/Ln ₂ Ti ₂ O ₇ catalysts for the steam reforming of methane. <i>Molecular Catalysis</i> , 2019 , 468, 130-138 | 3.3 | 18 |
| 78 | Reshaping CuO on silica to generate a highly active Cu/SiO ₂ catalyst. <i>Catalysis Science and Technology</i> , 2016 , 6, 6311-6319 | 5.5 | 18 |
| 77 | Three-dimensionally ordered macroporous SnO ₂ -based solid solution catalysts for effective soot oxidation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1683-1694 | 11.3 | 18 |
| 76 | Confined Ultrathin Pd-Ce Nanowires with Outstanding Moisture and SO ₂ Tolerance in Methane Combustion. <i>Angewandte Chemie</i> , 2018 , 130, 9091-9095 | 3.6 | 18 |
| 75 | Confined Ni-In intermetallic alloy nanocatalyst with excellent coking resistance for methane dry reforming. <i>Journal of Energy Chemistry</i> , 2022 , 65, 34-47 | 12 | 18 |
| 74 | Ni Supported on LaFeO ₃ Perovskites for Methane Steam Reforming: On the Promotional Effects of Plasma Treatment in H ₂ /Ar Atmosphere. <i>Topics in Catalysis</i> , 2017 , 60, 831-842 | 2.3 | 17 |
| 73 | Double-shelled hollow LaNiO ₃ nanocage as nanoreactors with remarkable catalytic performance: Illustrating the special morphology and performance relationship. <i>Molecular Catalysis</i> , 2018 , 455, 57-67 | 3.3 | 17 |

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| 72 | Facile Cr ³⁺ -Doping Strategy Dramatically Promoting Ru/CeO ₂ for Low-Temperature CO ₂ Methanation: Unraveling the Roles of Surface Oxygen Vacancies and Hydroxyl Groups. <i>ACS Catalysis</i> , 2021 , 11, 5762-5775 | 13.1 | 17 |
| 71 | SnO ₂ -based solid solutions for CH ₄ deep oxidation: Quantifying the lattice capacity of SnO ₂ using an X-ray diffraction extrapolation method. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1293-1302 | 11.3 | 17 |
| 70 | Design and Synthesis of Cu/ZSM-5 Catalyst via a Facile One-Pot Dual-Template Strategy with Controllable Cu Content for Removal of NO _x . <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14967-14976 | 3.9 | 16 |
| 69 | Tuning SnO ₂ surface with CuO for soot particulate combustion: The effect of monolayer dispersion capacity on reaction performance. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 905-916 | 11.3 | 15 |
| 68 | SnO ₂ nano-sheet as an efficient catalyst for CO oxidation. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 2004-2010 | 11.3 | 15 |
| 67 | Insight into the activity and SO ₂ tolerance of hierarchically ordered MnFe _{1-x} Co _x ternary oxides for low-temperature selective catalytic reduction of NO _x with NH ₃ . <i>Journal of Catalysis</i> , 2021 , 395, 195-209 | 7.3 | 15 |
| 66 | CuNiAl Spinel Oxide as an Efficient Durable Catalyst for Methanol Steam Reforming. <i>ChemCatChem</i> , 2018 , 10, 5698-5706 | 5.2 | 15 |
| 65 | One-pot synthesis of primary amides on bifunctional Rh(OH) _x /TS-1@KCC-1 catalysts. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 2057-2065 | 11.3 | 14 |
| 64 | Unraveling the boosting low-temperature performance of ordered mesoporous Cu-SSZ-13 catalyst for NO _x reduction. <i>Chemical Engineering Journal</i> , 2021 , 409, 128238 | 14.7 | 14 |
| 63 | Strategic use of CuAlO as a sustained release catalyst for production of hydrogen from methanol steam reforming. <i>Chemical Communications</i> , 2018 , 54, 12242-12245 | 5.8 | 14 |
| 62 | Exploring the Nanosize Effect of Mordenite Zeolites on Their Performance in the Removal of NO _x . <i>Industrial & Engineering Chemistry Research</i> , 2019 , | 3.9 | 13 |
| 61 | CO oxidation on Ta-Modified SnO ₂ solid solution catalysts. <i>Solid State Sciences</i> , 2013 , 20, 103-109 | 3.4 | 13 |
| 60 | Trifunctional strategy for the design and synthesis of a Ni-CeO ₂ @SiO ₂ catalyst with remarkable low-temperature sintering and coking resistance for methane dry reforming. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1808-1820 | 11.3 | 13 |
| 59 | Mesoporous MFI Zeolite with a 2D Square Structure Directed by Surfactants with an Azobenzene Tail Group. <i>Chemistry - A European Journal</i> , 2018 , 24, 8615-8623 | 4.8 | 12 |
| 58 | Mesoporous Y ₂ Sn ₂ O ₇ pyrochlore with exposed (111) facets: an active and stable catalyst for CO oxidation. <i>RSC Advances</i> , 2016 , 6, 71791-71799 | 3.7 | 12 |
| 57 | Investigation of lattice capacity effect on Cu ²⁺ -doped SnO ₂ solid solution catalysts to promote reaction performance toward NO-SCR with NH ₃ . <i>Chinese Journal of Catalysis</i> , 2020 , 41, 877-888 | 11.3 | 12 |
| 56 | Cost-effective fast-synthesis of chabazite zeolites for the reduction of NO _x . <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120163 | 21.8 | 12 |
| 55 | Ln ₂ Zr ₂ O ₇ compounds (Ln = La, Pr, Sm, Y) with varied rare earth A sites for low temperature oxidative coupling of methane. <i>Chinese Chemical Letters</i> , 2019 , 30, 1141-1146 | 8.1 | 11 |

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|----|---|------|----|
| 54 | Stable CuO/La ₂ Sn ₂ O ₇ catalysts for soot combustion: Study on the monolayer dispersion behavior of CuO over a La ₂ Sn ₂ O ₇ pyrochlore support. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 396-408 | 11.3 | 11 |
| 53 | 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> , 2016 , 8, 3714-3719 | 5.2 | 10 |
| 52 | Design of Stable Ultrasmall PtNi(O) Nanoparticles with Enhanced Catalytic Performance: Insights into the Effects of PtNiNiO Dual Interfaces. <i>ChemCatChem</i> , 2018 , 10, 4134-4142 | 5.2 | 10 |
| 51 | Clean Synthesis of Amides over Bifunctional Catalysts of Rhodium-Loaded Titanosilicates. <i>ChemCatChem</i> , 2013 , 5, 2462-2470 | 5.2 | 10 |
| 50 | The promotional effects of plasma treating on Ni/Y ₂ Ti ₂ O ₇ 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> , 2020 , 45, 4556-4569 | 6.7 | 10 |
| 49 | Insights into flower-like Al ₂ O ₃ spheres with rich unsaturated pentacoordinate Al ³⁺ sites stabilizing Ru-CeO _x for propane total oxidation. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120171 | 21.8 | 10 |
| 48 | CH ₄ deep oxidation over active and thermally stable catalysts based on SnIr composite oxide. <i>New Journal of Chemistry</i> , 2001 , 25, 1621-1626 | 3.6 | 9 |
| 47 | Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes.. <i>Nature Communications</i> , 2022 , 13, 295 | 17.4 | 9 |
| 46 | Modifying the Surface of γ -Al ₂ O ₃ with Y-Sn-O Pyrochlore: Monolayer Dispersion Behaviour of Composite Oxides. <i>ChemPhysChem</i> , 2017 , 18, 1533-1540 | 3.2 | 8 |
| 45 | SnO ₂ /Al ₂ O ₃ catalysts for selective reduction of NO _x by propylene: On the promotional effects of plasma treatment in air atmosphere. <i>Catalysis Today</i> , 2019 , 337, 171-181 | 5.3 | 8 |
| 44 | Heterogeneity of polyoxometalates by confining within ordered mesopores: toward efficient oxidation of benzene to phenol. <i>Catalysis Science and Technology</i> , 2019 , 9, 2173-2179 | 5.5 | 8 |
| 43 | O ₂ adsorption on MO ₂ (M=Ru, Ir, Sn) films supported on rutile TiO ₂ (110) by DFT calculations: Probing the nature of metal oxide-support interaction. <i>Journal of Colloid and Interface Science</i> , 2016 , 473, 100-11 | 9.3 | 8 |
| 42 | Freestanding Cobalt-Aluminum Oxides on USY Zeolite as an Efficient Catalyst for Selective Catalytic Reduction of NO _x . <i>ChemCatChem</i> , 2018 , 10, 4074-4083 | 5.2 | 8 |
| 41 | Pd Supported on SnO ₂ -Al ₂ O ₃ Composite Supports for CO Oxidation [Designing Thermally Stable and Active Supports for Pd. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014 , 228, 27-48 | 3.1 | 8 |
| 40 | Total Oxidation of Methane Over La, Ce and Y Modified Manganese Oxide Catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 2000 , 71, 3-11 | | 8 |
| 39 | Mesoporous High-Surface-Area CopperIn Mixed-Oxide Nanorods: Remarkable for Carbon Monoxide Oxidation. <i>ChemCatChem</i> , 2016 , 8, 2329-2334 | 5.2 | 8 |
| 38 | SnO ₂ Promoted by Praseodymia: Novel Catalysts for CO Oxidation. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 275-290 | 3.1 | 7 |
| 37 | Deep Oxidation of Methane Over Manganese Oxide Modified by Mg, Ca, Sr and Ba Additives. <i>Reaction Kinetics and Catalysis Letters</i> , 2000 , 71, 263-271 | | 7 |

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| 36 | Superior 3DOM Y ₂ Zr ₂ O ₇ supports for Ni to fabricate highly active and selective catalysts for CO ₂ methanation. <i>Fuel</i> , 2021 , 293, 120460 | 7.1 | 7 |
| 35 | Synthesis of ultra-small mordenite zeolite nanoparticles. <i>Science China Materials</i> , 2018 , 61, 1185-1190 | 7.1 | 6 |
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