

# Do Heui Kim

## List of Publications by Year in descending order

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185  
papers

7,695  
citations

61977

43  
h-index

62593

80  
g-index

186  
all docs

186  
docs citations

186  
times ranked

6864  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Coordinatively Unsaturated Al <sup>3+</sup> Centers as Binding Sites for Active Catalyst Phases of Platinum on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . Science, 2009, 325, 1670-1673.  | 12.6 | 790       |
| 2  | Excellent activity and selectivity of Cu-SSZ-13 in the selective catalytic reduction of NOx with NH3. Journal of Catalysis, 2010, 275, 187-190.   | 6.2  | 674       |
| 3  | Thermal durability of Cu-CHA NH3-SCR catalysts for diesel NO reduction. Catalysis Today, 2012, 184, 252-261.  | 4.4  | 245       |
| 4  | HRTEM Study of diesel soot collected from diesel particulate filters. Carbon, 2007, 45, 70-77.  | 10.3 | 239       |
| 5  | Recent advances in catalytic co-pyrolysis of biomass and plastic waste for the production of petroleum-like hydrocarbons. Bioresource Technology, 2020, 310, 123473.  | 9.6  | 199       |
| 6  | How Pt Interacts with CeO <sub>2</sub> under the Reducing and Oxidizing Environments at Elevated Temperature: The Origin of Improved Thermal Stability of Pt/CeO <sub>2</sub> Compared to CeO <sub>2</sub> . Journal of Physical Chemistry C, 2016, 120, 25870-25879. | 3.1  | 185       |
| 7  | Penta-coordinated Al <sup>3+</sup> ions as preferential nucleation sites for BaO on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> : An ultra-high-magnetic field <sup>27</sup> Al MAS NMR study. Journal of Catalysis, 2007, 251, 189-194.                                 | 6.2  | 173       |
| 8  | Effect of Preparation Method and Redox Treatment on the Reducibility and Structure of Supported Ceria-Zirconia Mixed Oxide. Journal of Catalysis, 2002, 209, 417-426.   | 6.2  | 162       |
| 9  | Activation of Pd/SSZ-13 catalyst by hydrothermal aging treatment in passive NO adsorption performance at low temperature for cold start application. Applied Catalysis B: Environmental, 2017, 212, 140-149.  | 20.2 | 127       |
| 10 | Differential kinetic analysis of diesel particulate matter (soot) oxidation by oxygen using a step-response technique. Applied Catalysis B: Environmental, 2005, 61, 120-129.   | 20.2 | 119       |
| 11 | Effects of La <sub>2</sub> O <sub>3</sub> on the Mixed Higher Alcohols Synthesis from Syngas over Co Catalysts: A Combined Theoretical and Experimental Study. Journal of Physical Chemistry C, 2011, 115, 17440-17451.   | 3.1  | 119       |
| 12 | NO <sub>2</sub> Adsorption on BaO/Al <sub>2</sub> O <sub>3</sub> : The Nature of Nitrate Species. Journal of Physical Chemistry B, 2005, 109, 27-29.  | 2.6  | 117       |
| 13 | Catalytic Copyrolysis of Cellulose and Thermoplastics over HZSM-5 and HY. ACS Sustainable Chemistry and Engineering, 2016, 4, 1354-1363.  | 6.7  | 113       |
| 14 | Understanding the effect of Pd size on formic acid dehydrogenation via size-controlled Pd/C catalysts prepared by NaBH <sub>4</sub> treatment. Applied Catalysis B: Environmental, 2019, 244, 684-693.  | 20.2 | 108       |
| 15 | Role of Pentacoordinated Al <sup>3+</sup> Ions in the High Temperature Phase Transformation of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . Journal of Physical Chemistry C, 2008, 112, 9486-9492.  | 3.1  | 106       |
| 16 | Metallic phases of cobalt-based catalysts in ethanol steam reforming: The effect of cerium oxide. Applied Catalysis A: General, 2009, 355, 69-77.   | 4.3  | 99        |
| 17 | The different impacts of SO <sub>2</sub> and SO <sub>3</sub> on Cu/zeolite SCR catalysts. Catalysis Today, 2010, 151, 266-270.  | 4.4  | 96        |
| 18 | Effect of Co/Ni ratios in cobalt nickel mixed oxide catalysts on methane combustion. Applied Catalysis A: General, 2015, 505, 62-69.  | 4.3  | 89        |

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|----|--|------|-----------|
| 19 | Investigation of the active sites and optimum Pd/Al of Pd/ZSM-5 passive NO adsorbers for the cold-start application: Evidence of isolated-Pd species obtained after a high-temperature thermal treatment. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 71-82.                    | 20.2 | 89        |
| 20 | Deactivation mechanisms of Pt/Pd-based diesel oxidation catalysts. <i>Catalysis Today</i> , 2012, 184, 197-204.  | 4.4  | 86        |
| 21 | Catalytic hydrodeoxygenation of 2-methoxy phenol and dibenzofuran over Pt/mesoporous zeolites. <i>Energy</i> , 2015, 81, 33-40.  | 8.8  | 83        |
| 22 | Facile Synthesis of KFI-type Zeolite and Its Application to Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>ACS Catalysis</i> , 2017, 7, 6070-6081.   | 11.2 | 83        |
| 23 | Effect of various activation conditions on the low temperature NO adsorption performance of Pd/SSZ-13 passive NO <sub>x</sub> adsorber. <i>Catalysis Today</i> , 2019, 320, 175-180.   | 4.4  | 81        |
| 24 | In Situ Elucidation of the Active State of Co-CeO <sub>x</sub> Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. <i>ACS Catalysis</i> , 2018, 8, 3550-3560.   | 11.2 | 80        |
| 25 | Understanding the nature of surface nitrates in BaO/γ-Al <sub>2</sub> O <sub>3</sub> NO <sub>x</sub> storage materials: A combined experimental and theoretical study. <i>Journal of Catalysis</i> , 2009, 261, 17-22.   | 6.2  | 79        |
| 26 | Effects of microporous TiO <sub>2</sub> support on the catalytic and structural properties of V <sub>2</sub> O <sub>5</sub> /microporous TiO <sub>2</sub> for the selective catalytic reduction of NO by NH <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2017, 210, 421-431. | 20.2 | 78        |
| 27 | Water-induced formation of cobalt oxides over supported cobalt/ceria-zirconia catalysts under ethanol-steam conditions. <i>Journal of Catalysis</i> , 2010, 273, 229-235.  | 6.2  | 77        |
| 28 | Synergistic effect of non-thermal plasma-catalysis hybrid system on methane complete oxidation over Pd-based catalysts. <i>Chemical Engineering Journal</i> , 2015, 259, 761-770.  | 12.7 | 72        |
| 29 | Effects of Ba loading and calcination temperature on BaAl <sub>2</sub> O <sub>4</sub> formation for BaO/Al <sub>2</sub> O <sub>3</sub> NO <sub>x</sub> storage and reduction catalysts. <i>Catalysis Today</i> , 2006, 114, 86-93.   | 4.4  | 70        |
| 30 | Influence of the Defect Concentration of Ceria on the Pt Dispersion and the CO Oxidation Activity of Pt/CeO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 4972-4983.  | 3.1  | 62        |
| 31 | Hydrogen Production from Ethanol Steam Reforming Over Supported Cobalt Catalysts. <i>Catalysis Letters</i> , 2008, 122, 295-301.   | 2.6  | 61        |
| 32 | Effect of reduction treatments (H <sub>2</sub> vs. CO) on the NO adsorption ability and the physicochemical properties of Pd/SSZ-13 passive NO <sub>x</sub> adsorber for cold start application. <i>Applied Catalysis A: General</i> , 2019, 569, 28-34.                                   | 4.3  | 61        |
| 33 | Comparative study of the mobility of Pd species in SSZ-13 and ZSM-5, and its implication for their activity as passive NO <sub>x</sub> adsorbers (PNAs) after hydro-thermal aging. <i>Catalysis Science and Technology</i> , 2019, 9, 163-173.   | 4.1  | 58        |
| 34 | Excellent sulfur resistance of Pt/BaO/CeO <sub>2</sub> lean NO <sub>x</sub> trap catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 545-551.   | 20.2 | 55        |
| 35 | Effect of oxidation states of vanadium precursor solution in V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalysts for low temperature NH <sub>3</sub> selective catalytic reduction. <i>Catalysis Today</i> , 2014, 232, 185-191.   | 4.4  | 55        |
| 36 | Low temperature NO adsorption over hydrothermally aged Pd/CeO <sub>2</sub> for cold start application. <i>Catalysis Today</i> , 2018, 307, 93-101.   | 4.4  | 55        |

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|----|--|------|-----------|
| 37 | Understanding the dynamic behavior of acid sites on TiO <sub>2</sub> -supported vanadia catalysts via operando DRIFTS under SCR-relevant conditions. <i>Journal of Catalysis</i> , 2020, 382, 269-279.   | 6.2  | 53        |
| 38 | Relationship of Pt Particle Size to the NO <sub>x</sub> Storage Performance of Thermally Aged Pt/BaO/Al <sub>2</sub> O <sub>3</sub> Lean NO <sub>x</sub> Trap Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 8815-8821.                                     | 3.7  | 51        |
| 39 | Title is missing!. <i>Catalysis Letters</i> , 2000, 70, 35-41.   | 2.6  | 49        |
| 40 | Simple physical mixing of zeolite prevents sulfur deactivation of vanadia catalysts for NO <sub>x</sub> removal. <i>Nature Communications</i> , 2021, 12, 901.   | 12.8 | 49        |
| 41 | Mechanistic insights on aqueous formic acid dehydrogenation over Pd/C catalyst for efficient hydrogen production. <i>Journal of Catalysis</i> , 2020, 389, 506-516.  | 6.2  | 48        |
| 42 | NO <sub>x</sub> uptake mechanism on Pt/BaO/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Letters</i> , 2006, 111, 119-126.  | 2.6  | 46        |
| 43 | Synthesis of nanoporous zirconium oxophosphate and application for removal of U(VI). <i>Water Research</i> , 2007, 41, 3217-3226.  | 11.3 | 45        |
| 44 | Ordered mesoporous MCo <sub>2</sub> O <sub>4</sub> (M = Cu, Zn and Ni) spinel catalysts with high catalytic performance for methane combustion. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 68-74.  | 4.8  | 44        |
| 45 | Changes in Ba Phases in BaO/Al <sub>2</sub> O <sub>3</sub> upon Thermal Aging and H <sub>2</sub> O Treatment. <i>Catalysis Letters</i> , 2005, 105, 259-268.   | 2.6  | 43        |
| 46 | Improving NO <sub>x</sub> storage and CO oxidation abilities of Pd/SSZ-13 by increasing its hydrophobicity. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119190.   | 20.2 | 43        |
| 47 | Effect of niobium oxide phase on the furfuryl alcohol dehydration. <i>Catalysis Communications</i> , 2017, 97, 65-69.  | 3.3  | 42        |
| 48 | Controlling Catalytic Selectivity Mediated by Stabilization of Reactive Intermediates in Small-Pore Environments: A Study of Mn/TiO <sub>2</sub> in the NH <sub>3</sub> -SCR Reaction. <i>ACS Catalysis</i> , 2020, 10, 12017-12030.   | 11.2 | 40        |
| 49 | Water-induced bulk Ba(NO <sub>3</sub> ) <sub>2</sub> formation from NO <sub>2</sub> exposed thermally aged BaO/Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2007, 72, 233-239.   | 20.2 | 39        |
| 50 | Effect of pore structure of TiO <sub>2</sub> on the SO <sub>2</sub> poisoning over V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalysts for selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Catalysis Today</i> , 2018, 303, 19-24.                        | 4.4  | 39        |
| 51 | Improved catalytic performance and resistance to SO <sub>2</sub> over V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> catalyst physically mixed with Fe <sub>2</sub> O <sub>3</sub> for low-temperature NH <sub>3</sub> -SCR. <i>Catalysis Today</i> , 2021, 376, 95-103. | 4.4  | 37        |
| 52 | Chemisorption of NH <sub>3</sub> on Monomeric Vanadium Oxide Supported on Anatase TiO <sub>2</sub> : A Combined DRIFT and DFT Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16674-16682.  | 3.1  | 36        |
| 53 | Water-Induced Morphology Changes in BaO/Al <sub>2</sub> O <sub>3</sub> NO <sub>x</sub> Storage Materials: an FTIR, TPD, and Time-Resolved Synchrotron XRD Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4678-4687.  | 3.1  | 35        |
| 54 | Possible origin of improved high temperature performance of hydrothermally aged Cu/beta zeolite catalysts. <i>Catalysis Today</i> , 2012, 184, 245-251.  | 4.4  | 35        |

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|----|--|------|-----------|
| 55 | Hydrogen production by steam reforming of ethanol over Ni <sup>x</sup> /Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> (X = Mg, Ca, Sr, and Ba) xerogel catalysts: Effect of alkaline earth metal addition. <i>Journal of Molecular Catalysis A</i> , 2016, 415, 151-159.  | 4.8  | 35        |
| 56 | Effect of sulfur aging and regeneration on low temperature NO adsorption over hydrothermally treated Pd/CeO <sub>2</sub> and Pd/Ce <sub>0.58</sub> Zr <sub>0.42</sub> O <sub>2</sub> catalysts. <i>Catalysis Today</i> , 2017, 297, 53-59.   | 4.4  | 35        |
| 57 | Characteristics of the Pd-only three-way catalysts prepared by sol-gel method. <i>Catalysis Today</i> , 1999, 53, 575-582.   | 4.4  | 34        |
| 58 | Enhanced yield of benzene, toluene, and xylene from the co-aromatization of methane and propane over gallium supported on mesoporous ZSM-5 and ZSM-11. <i>Fuel</i> , 2019, 251, 404-412.   | 6.4  | 33        |
| 59 | Mobility of Cu Ions in Cu-SSZ-13 Determines the Reactivity of Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3210-3216.  | 4.6  | 33        |
| 60 | Effect of pH in a sol-gel synthesis on the physicochemical properties of Pd <sup>x</sup> -alumina three-way catalyst. <i>Applied Catalysis B: Environmental</i> , 2000, 26, 285-289.   | 20.2 | 31        |
| 61 | Catalytic hydrothermal conversion of macroalgae-derived alginate: effect of pH on production of furfural and valuable organic acids under subcritical water conditions. <i>Journal of Molecular Catalysis A</i> , 2015, 399, 106-113.  | 4.8  | 31        |
| 62 | Effect of Si/Al <sub>2</sub> ratios in Mo/H-MCM-22 on methane dehydroaromatization. <i>Applied Catalysis A: General</i> , 2018, 552, 11-20.  | 4.3  | 31        |
| 63 | Hydrogen production from formic acid dehydrogenation over a Pd supported on N-doped mesoporous carbon catalyst: A role of nitrogen dopant. <i>Applied Catalysis A: General</i> , 2020, 608, 117887.  | 4.3  | 31        |
| 64 | Effect of Barium Loading on the Desulfation of Pt-BaO/Al <sub>2</sub> O <sub>3</sub> Studied by H <sub>2</sub> TPRX, TEM, Sulfur K-edge XANES, and in Situ TR-XRD. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10441-10448.  | 2.6  | 30        |
| 65 | Adsorption and Formation of BaO Overlayers on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18050-18060.  | 3.1  | 29        |
| 66 | Effects of Molecular and Electronic Structures in CoO <sub>x</sub> /CeO <sub>2</sub> Catalysts on NO Reduction by CO. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7166-7177.   | 3.1  | 29        |
| 67 | Oxidation of C <sub>3</sub> H <sub>8</sub> , iso-C <sub>5</sub> H <sub>12</sub> and C <sub>3</sub> H <sub>6</sub> under near-stoichiometric and fuel-lean conditions over aged Pt <sup>x</sup> /Pd/Al <sub>2</sub> O <sub>3</sub> catalysts with different Pt:Pd ratios. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 283-294. | 20.2 | 29        |
| 68 | Roles of ZrO <sub>2</sub> in SO <sub>2</sub> -poisoned Pd/(Ce-Zr)O <sub>2</sub> catalysts for CO oxidation. <i>Catalysis Today</i> , 2015, 258, 518-524.   | 4.4  | 28        |
| 69 | Comparison of NO <sub>x</sub> Adsorption/Desorption Behaviors over Pd/CeO <sub>2</sub> and Pd/SSZ-13 as Passive NO <sub>x</sub> Adsorbers for Cold Start Application. <i>Emission Control Science and Technology</i> , 2019, 5, 172-182.   | 1.5  | 28        |
| 70 | NO <sub>x</sub> uptake on alkaline earth oxides (BaO, MgO, CaO and SrO) supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Today</i> , 2008, 136, 121-127.   | 4.4  | 27        |
| 71 | Characteristics of Pt <sup>x</sup> /K/MgAl <sub>2</sub> O <sub>4</sub> lean NO <sub>x</sub> trap catalysts. <i>Catalysis Today</i> , 2012, 184, 2-7.   | 4.4  | 27        |
| 72 | Investigation on the enhanced catalytic activity of a Ni-promoted Pd/C catalyst for formic acid dehydrogenation: effects of preparation methods and Ni/Pd ratios. <i>RSC Advances</i> , 2018, 8, 2441-2448.  | 3.6  | 27        |

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|----|--|------|-----------|
| 73 | Depolymerization of Protobind lignin to produce monoaromatic compounds over Cu/ZSM-5 catalyst in supercritical ethanol. <i>Molecular Catalysis</i> , 2017, 442, 140-146.   | 2.0  | 26        |
| 74 | Synthesis of butenes through 2-butanol dehydration over mesoporous materials produced from ferrierite. <i>Catalysis Today</i> , 2012, 185, 191-197.  | 4.4  | 25        |
| 75 | One-pot conversion of alginic acid into furfural using Amberlyst-15 as a solid acid catalyst in $\beta$ -butyrolactone/water co-solvent system. <i>Environmental Research</i> , 2020, 187, 109667.                             | 7.5  | 25        |
| 76 | Suppressed N <sub>2</sub> O formation during NH <sub>3</sub> selective catalytic reduction using vanadium on zeolitic microporous TiO <sub>2</sub> . <i>Scientific Reports</i> , 2015, 5, 12702.                               | 3.3  | 24        |
| 77 | Direct catalytic conversion of brown seaweed-derived alginic acid to furfural using 12-tungstophosphoric acid catalyst in tetrahydrofuran/water co-solvent. <i>Energy Conversion and Management</i> , 2016, 118, 135-141.      | 9.2  | 24        |
| 78 | Upgrading bio-oil model compound over bifunctional Ru/HZSM-5 catalysts in biphasic system: Complete hydrodeoxygenation of vanillin. <i>Journal of Hazardous Materials</i> , 2022, 423, 126525.                                 | 12.4 | 24        |
| 79 | Hydrothermal conversion of macroalgae-derived alginate to lactic acid catalyzed by metal oxides. <i>Catalysis Science and Technology</i> , 2016, 6, 1146-1156.   | 4.1  | 23        |
| 80 | The existence of dual Cu site involved in the selective catalytic reduction of NO with propene on Cu/ZSM-5. <i>Catalysis Letters</i> , 1996, 42, 177-184.  | 2.6  | 22        |
| 81 | Role of oxygen on NO <sub>x</sub> SCR catalyzed over Cu/ZSM-5 studied by FTIR, TPD, XPS and micropulse reaction. <i>Catalysis Today</i> , 1998, 44, 47-55.   | 4.4  | 22        |
| 82 | Production of furfural from macroalgae-derived alginic acid over Amberlyst-15. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 264-269.   | 4.8  | 22        |
| 83 | Inter-particle migration of Cu ions in physically mixed Cu-SSZ-13 and H-SSZ-13 treated by hydrothermal aging. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1059-1066.  | 3.7  | 22        |
| 84 | Time-resolved observation of V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> in NH <sub>3</sub> -SCR reveals the equivalence of Brønsted and Lewis acid sites. <i>Chemical Communications</i> , 2020, 56, 15450-15453.         | 4.1  | 22        |
| 85 | Lean NO <sub>x</sub> reduction by CO at low temperature over bimetallic IrRu/Al <sub>2</sub> O <sub>3</sub> catalysts with different Ir:Ru ratios. <i>Catalysis Science and Technology</i> , 2020, 10, 2120-2136.              | 4.1  | 22        |
| 86 | Effects of potassium loading and thermal aging on K/Pt/Al <sub>2</sub> O <sub>3</sub> high-temperature lean NO <sub>x</sub> trap catalysts. <i>Catalysis Today</i> , 2014, 231, 164-172.                                       | 4.4  | 21        |
| 87 | BTX production by coaromatization of methane and propane over gallium oxide supported on mesoporous HZSM-5. <i>Molecular Catalysis</i> , 2017, 439, 134-142.   | 2.0  | 21        |
| 88 | Sulfur resistance of Ca-substituted LaCoO <sub>3</sub> catalysts in CO oxidation. <i>Molecular Catalysis</i> , 2019, 468, 148-153.   | 2.0  | 21        |
| 89 | Deactivation of Pd/Zeolites passive NO <sub>x</sub> adsorber induced by NO and H <sub>2</sub> O: Comparative study of Pd/ZSM-5 and Pd/SSZ-13. <i>Catalysis Today</i> , 2021, 360, 350-355.                                     | 4.4  | 21        |
| 90 | Effect of surfactant, HCl and NH <sub>3</sub> treatments on the regeneration of waste activated carbon used in selective catalytic reduction unit. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 109-112. | 5.8  | 20        |

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|-----|--|------|-----------|
| 91  | Synthesis of terraced and spherical MgO nanoparticles using flame metal combustion. Powder Technology, 2017, 305, 132-140.   | 4.2  | 20        |
| 92  | Effects of Ni loading on the physicochemical properties of NiO <sub>x</sub> /CeO <sub>2</sub> catalysts and catalytic activity for NO reduction by CO. Catalysis Science and Technology, 2020, 10, 2359-2368.  | 4.1  | 20        |
| 93  | Enhanced reactivity and stability in methane dehydro-aromatization over Mo/HZSM-5 physically mixed with NiO. Applied Catalysis B: Environmental, 2021, 296, 120377.  | 20.2 | 20        |
| 94  | The effect of the preparation conditions of Pt/ZSM-5 upon its activity and selectivity for the reduction of nitric oxide. Applied Catalysis B: Environmental, 1999, 21, 183-190.   | 20.2 | 19        |
| 95  | Enhanced SO <sub>2</sub> resistance of V <sub>2</sub> O <sub>5</sub> /WO <sub>3</sub> -TiO <sub>2</sub> catalyst physically mixed with alumina for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . Chemical Engineering Journal, 2022, 433, 133836.  | 12.7 | 19        |
| 96  | Hydrothermal conversion of alginic acid to furfural catalyzed by Cu(II) ion. Catalysis Today, 2016, 265, 154-162.  | 4.4  | 18        |
| 97  | Hydrogen production by the steam reforming of ethanol over K-promoted Co/Al <sub>2</sub> O <sub>3</sub> -CaO xerogel catalysts. Molecular Catalysis, 2020, 491, 110980.  | 2.0  | 18        |
| 98  | Synergistic effect of vanadium and zirconium oxides in the Pd-only three-way catalysts synthesized by sol-gel method. Applied Catalysis A: General, 2001, 207, 69-77.  | 4.3  | 17        |
| 99  | Roles of Pt and BaO in the Sulfation of Pt/BaO/Al <sub>2</sub> O <sub>3</sub> Lean NO <sub>x</sub> Trap Materials: Sulfur K-edge XANES and Pt L <sub>III</sub> XAFS Studies. Journal of Physical Chemistry C, 2008, 112, 2981-2987.  | 3.1  | 17        |
| 100 | Effects of Sulfation Level on the Desulfation Behavior of Presulfated Pt-BaO/Al <sub>2</sub> O <sub>3</sub> Lean NO <sub>x</sub> Trap Catalysts: A Combined H <sub>2</sub> Temperature-Programmed Reaction, in Situ Sulfur K-Edge X-ray Absorption Near-Edge Spectroscopy, X-ray Photoelectron Spectroscopy, and Time-Resolved X-ray Diffraction Study. Journal of Physical Chemistry C, 2009, 113, 7336-7341. | 3.1  | 17        |
| 101 | Hydrogen production by steam reforming of ethanol over Ni-Sr-Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> aerogel catalyst. Journal of Molecular Catalysis A, 2016, 424, 342-350.  | 4.8  | 16        |
| 102 | Plasma assisted oxidative coupling of methane (OCM) over Ag/SiO <sub>2</sub> and subsequent regeneration at low temperature. Applied Catalysis A: General, 2018, 557, 39-45.   | 4.3  | 16        |
| 103 | Oxidative Methane Conversion to Ethane on Highly Oxidized Pd/CeO <sub>2</sub> Catalysts Below 400°C. ChemSusChem, 2020, 13, 677-681.   | 6.8  | 16        |
| 104 | Promotional effect of Au on Fe/HZSM-5 catalyst for methane dehydroaromatization. Fuel, 2020, 274, 117852.  | 6.4  | 16        |
| 105 | Characteristics of Mn/H-ZSM-5 catalysts for methane dehydroaromatization. Applied Catalysis A: General, 2019, 577, 10-19.  | 4.3  | 15        |
| 106 | Effect of the Si/Al ratio in Ga/mesoporous HZSM-5 on the production of benzene, toluene, and xylene <i>via</i> coaromatization of methane and propane. Catalysis Science and Technology, 2019, 9, 6285-6296.   | 4.1  | 15        |
| 107 | Uniform synthesis of palladium species confined in a small-pore zeolite <i>via</i> full ion-exchange investigated by cryogenic electron microscopy. Journal of Materials Chemistry A, 2021, 9, 19796-19806.  | 10.3 | 15        |
| 108 | Ag-doped manganese oxide catalyst for gasoline particulate filters: Effect of crystal phase on soot oxidation activity. Applied Surface Science, 2021, 569, 151041.  | 6.1  | 15        |

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|-----|--|------|-----------|
| 109 | Characteristics of Desulfation Behavior for Presulfated Pt-BaO/CeO <sub>2</sub> Lean NO <sub>x</sub> Trap Catalyst: The Role of the CeO <sub>2</sub> Support. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21123-21129.   | 3.1  | 14        |
| 110 | Effect of Mg/Al ratios on the NO <sub>x</sub> storage activity over Pt-BaO/Mg-Al mixed oxides. <i>Catalysis Today</i> , 2014, 231, 155-163.  | 4.4  | 14        |
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