# Jian-Li Wang

List of Publications by Year
in descending order



| 71 | 1,170 | 394421 19 | 454955 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 73 | 73 | 73 | 1201 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Entropy-stabilized single-atom Pd catalysts via high-entropy fluorite oxide supports. Nature Communications, 2020, 11, 3908. | 12.8 | 172 |
| 2 | Effects of contact model and NO x on soot oxidation activity over Pt/MnO x -CeO 2 and the reaction mechanisms. Chemical Engineering Journal, 2017, 327, 1066-1076. | 12.7 | 49 |
| 3 | Structure-Analgesic Activity Relationship Studies on the C18- and C19-Diterpenoid Alkaloids. Chemical and Pharmaceutical Bulletin, 2009, 57, 801-807. | 1.3 | 46 |
| 4 | Steam reforming of hydrocarbon fuels over M (Fe, Co, Ni, Cu, Zn)â€“Ce bimetal catalysts supported on Al2O3. International Journal of Hydrogen Energy, 2016, 41, 10473-10482. | 7.1 | 41 |
| 5 | Catalytic cracking of RP-3 jet fuel over wall-coated Pt/ZrO2â€“TiO2â€“Al2O3 catalysts with different Al2O3 ratios. Journal of Analytical and Applied Pyrolysis, 2015, 111, 100-107. | 5.5 | 37 |
| 6 | Hydrogen production by catalytic steam reforming of hydrocarbon fuels over Ni/Ceâ€“Al 2 O 3 bifunctional catalysts: Effects of SrO addition. International Journal of Hydrogen Energy, 2016, 41, 13436-13447. | 7.1 | 35 |
| 7 | Promotional effects of Titanium additive on the surface properties, active sites and catalytic activity of W/CeZrOx monolithic catalyst for the selective catalytic reduction of NOx with NH3. Applied Surface Science, 2017, 419, 697-707. | 6.1 | 32 |
| 8 | Yâ€shaped poly(ethylene glycol) and poly(trimethylene carbonate) amphiphilic copolymer: Synthesis and for drug delivery. Journal of Polymer Science Part A, 2008, 46, 8131-8140. | 2.3 | 27 |
| 9 | Kerosene cracking over supported monolithic Pt catalysts: Effects of SrO and BaO promoters. Chinese Journal of Catalysis, 2013, 34, 1139-1147. | 14.0 | 27 |
| 10 | Active oxygen-promoted NO catalytic on monolithic Pt-based diesel oxidation catalyst modified with Ce. Catalysis Today, 2019, 327, 64-72. | 4.4 | 27 |
| 11 | Effect of the calcination temperature of ceriumâ€“zirconium mixed oxides on the structure and catalytic performance of WO<sub>3</sub>/CeZrO<sub>2</sub> monolithic catalyst for selective catalytic reduction of NO<sub>x</sub> with NH<sub>3</sub>. RSC Advances, 2017, 7, 24177-24187. | 3.6 | 26 |
| 12 | Colanic acid biosynthesis in Escherichia coli is dependent on lipopolysaccharide structure and glucose availability. Microbiological Research, 2020, 239, 126527. | 5.3 | 26 |
| 13 | Bi-functional composite oxides M(Na, K)-Ni/La-Al2O3 catalysts for steam reforming of n-decane. Fuel, 2018, 212, 193-201. | 6.4 | 25 |
| 14 | Interactional effect of cerium and manganese on NO catalytic oxidation. Environmental Science and Pollution Research, 2017, 24, 9314-9324. | 5.3 | 24 |
| 15 | Catalytic Cracking of RP-3 Jet Fuel over Pt/CeO<sub>2</sub>â€“Al<sub>2</sub>O<sub>3</sub> by Adding Cu/ZSM-5. Energy & Fuels, 2014, 28, 5382-5388. | 5.1 | 23 |
| 16 | Effect of valence state and particle size on NO oxidation in fresh and aged Pt-based diesel oxidation catalysts. Applied Surface Science, 2018, 443, 336-344. | 6.1 | 23 |
| 17 | Enhanced activity and stability of the monolithic Pt/SiO2â€“Al2O3 diesel oxidation catalyst promoted by suitable tungsten additive amount. Journal of Industrial and Engineering Chemistry, 2017, 54, 359-368. | 5.8 | 20 |
| 18 | Solvent Effects on the Low-Temperature NH<sub>3</sub>â€“SCR Activity and Hydrothermal Stability of WO<sub>3</sub>/SiO<sub>2</sub>@CeZrO<sub>x</sub> Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 13418-13429. | 6.7 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Meta-analysis of cellular toxicity for graphene via data-mining the literature and machine learning. Science of the Total Environment, 2021, 793, 148532. | 8.0 | 20 |
| 20 | Steam reforming of n -decane toward H 2 production over Ni/Ce-Al 2 O 3 composite catalysts: Effects of M (M = Fe, Co, Cu, Zn) promoters. Journal of Analytical and Applied Pyrolysis, 2016, 120, 238-246. | 5.5 | 19 |
| 21 | Advanced Insight into the Size Effect of PtPd Nanoparticles on NO Oxidation by in Situ FTIR Spectra. Industrial & Engineering Chemistry Research, 2018, 57, 3887-3897. | 3.7 | 19 |
| 22 | Enhancement of the Hydrothermal Stability of WO<sub>3</sub>/Ce<sub>0.68</sub>Zr<sub>0.32</sub>O<sub>2</sub> Catalyst by Silica Modification for NH<sub>3</sub>-SCR. ACS Applied Energy Materials, 2020, 3, 1161-1170. | 5.1 | 19 |
| 23 | Remove cooking fume using catalytic combustion over Pt/La-Al2O3. Journal of Environmental Sciences, 2007, 19, 644-646. | 6.1 | 18 |
| 24 | Catalytic Cracking of n-Decane over Monometallic and Bimetallic Ptâ€“Ni/MoO<sub>3</sub>/Laâ€“Al<sub>2</sub>O<sub>3</sub> Catalysts: Correlations of Surface Properties and Catalytic Behaviors. Industrial & Engineering Chemistry Research, 2019, 58, 1823-1833. | 3.7 | 18 |
| 25 | The influence of H2O2 on the properties of CeO2-ZrO2 mixed oxides. Journal of Materials Science, 2017, 52, 5242-5255. | 3.7 | 17 |
| 26 | Relationship between Coking Behavior in Hydrocarbon Fuel Pyrolysis and Surface Roughness. Energy & Fuels, 2018, 32, 1223-1229. | 5.1 | 17 |
| 27 | Designed synthesis of Zr-based ceriaâ€“zirconiaâ€“neodymia composite with high thermal stability and its enhanced catalytic performance for Rh-only three-way catalyst. Catalysis Science and Technology, 2016, 6, 7437-7448. | 4.1 | 16 |
| 28 | Study on hydrothermal deactivation of Pt/MnO x -CeO2 for NO x -assisted soot oxidation: redox property, surface nitrates, and oxygen vacancies. Environmental Science and Pollution Research, 2018, 25, 16061-16070. | 5.3 | 16 |
| 29 | New Insights into Excellent Catalytic Performance of the Ce-Modified Catalyst for NO Oxidation. Industrial & Engineering Chemistry Research, 2019, 58, 7876-7885. | 3.7 | 16 |
| 30 | Synthesis of a High-Stability Nanosized Pt-Loaded MgAl<sub>2</sub>O<sub>4</sub> Catalyst for n-Decane Cracking with Enhanced Activity and Durability. Industrial & Engineering Chemistry Research, 2020, 59, 4338-4347. | 3.7 | 15 |
| 31 | Rapid glacier retreat in the Naimonaâ€™Nyi region, western Himalayas, between 2003 and 2013. Journal of Applied Remote Sensing, 2014, 8, 083508. | 1.3 | 13 |
| 32 | Hydrogen-Rich Syngas Production by Toluene Reforming in a Microchannel Reactor Coated with Ni/MgOâ€“Al<sub>2</sub>O<sub>3</sub> Multifunctional Catalysts. Industrial & Engineering Chemistry Research, 2019, 58, 19794-19802. | 3.7 | 12 |
| 33 | Investigation of the selective catalytic reduction of NO with NH<sub>3</sub> over the WO<sub>3</sub>/Ce<sub>0.68</sub>Zr<sub>0.32</sub>O<sub>2</sub> catalyst: the role of H<sub>2</sub>O in SO<sub>2</sub> inhibition. New Journal of Chemistry, 2019, 43, 2258-2268. | 2.8 | 12 |
| 34 | Effects of M (Zr, Nb, Y) modifiers on the catalytic performance of Ni/Ce-Al2O3 bimetallic catalyst in steam reforming of n-decane. Journal of Analytical and Applied Pyrolysis, 2016, 122, 142-150. | 5.5 | 11 |
| 35 | Remarkably promoted low-temperature reducibility and thermal stability of CeO2â€“ZrO2â€“La2O3â€“Nd2O3 by a urea-assisted low-temperature (90ÂÂ°C) hydrothermal procedure. Journal of Materials Science, 2017, 52, 5894-5907. | 3.7 | 11 |
| 36 | A Comprehensive Investigation of the Pyrolysis Effect on Heat Transfer Characteristics for n-Decane in the Horizon Mini-Channel. Energy & Fuels, 2020, 34, 199-210. | 5.1 | 11 |

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|---|---|---|---|
| 37 | Significant differences of NH<sub>3</sub>-SCR performances between monoclinic and hexagonal WO<sub>3</sub> on Ce-based catalysts. Environmental Science: Nano, 2021, 8, 2988-3000. | 4.3 | 11 |
| 38 | Soot combustion over CeO2 catalyst: the influence of biodiesel impurities (Na, K, Ca, P) on surface chemical properties. Environmental Science and Pollution Research, 2021, 28, 26018-26029. | 5.3 | 11 |
| 39 | Effects of CeO<sub>2</sub> Addition on Improved NO Oxidation Activities of Pt/SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> Diesel Oxidation Catalysts. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1242-1252. | 4.9 | 11 |
| 40 | Facile fabrication of novel Euâ€containing copolymer and luminescent properties. Polymer Engineering and Science, 2009, 49, 1273-1278. | 3.1 | 10 |
| 41 | The performance of Pt/ZrxTixAl1â€“2xO2 as Kerosene cracking catalysts. Chinese Journal of Catalysis, 2014, 35, 175-184. | 14.0 | 10 |
| 42 | An experimental and numerical investigation on thermal cracking of n-decane in the microchannel. Petroleum Science and Technology, 2016, 34, 555-561. | 1.5 | 10 |
| 43 | Promotional effect of niobium substitution on the low-temperature activity of a WO<sub>3</sub>/CeZrO<sub>x</sub>monolithic catalyst for the selective catalytic reduction of NO<sub>x</sub>with NH<sub>3</sub>. RSC Advances, 2017, 7, 47570-47582. | 3.6 | 10 |
| 44 | Comparative activity and hydrothermal stability of FeOx- and CeO2-doped Pt-based catalysts for eliminating diesel emissions. Journal of Environmental Chemical Engineering, 2020, 8, 104361. | 6.7 | 10 |
| 45 | Openâ€Framework Beryllium Phosphites with Layered Structures. European Journal of Inorganic Chemistry, 2011, 2011, 4949-4953. | 2.0 | 9 |
| 46 | Effect of a mixed precursor over monolith MnO<sub>x</sub>/Laâ€“Al<sub>2</sub>O<sub>3</sub> catalyst for toluene oxidation. New Journal of Chemistry, 2020, 44, 10859-10869. | 2.8 | 8 |
| 47 | Constructing a Pt/YMn<sub>2</sub>O<sub>5</sub> Interface to Form Multiple Active Centers to Improve the Hydrothermal Stability of NO Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 20875-20887. | 8.0 | 8 |
| 48 | An experimental and simulated investigation on pyrolysis of blended cyclohexane and benzene under supercritical pressure. Petroleum Chemistry, 2017, 57, 71-78. | 1.4 | 7 |
| 49 | Preparation of Ce0.5Zr0.5O2â€“Al2O3 with high-temperature sintering resistance and its supported Pd-only three-way catalyst. Journal of Materials Science, 2019, 54, 2796-2813. | 3.7 | 7 |
| 50 | Catalytic performance promoted on Pt-based diesel oxidation catalyst assisted by polyvinyl alcohol. Environmental Science and Pollution Research, 2020, 27, 41824-41838. | 5.3 | 7 |
| 51 | Improved low-temperature catalytic oxidation performance of Pt-based catalysts by modulating the electronic and size effects. New Journal of Chemistry, 2020, 44, 10500-10506. | 2.8 | 7 |
| 52 | Toxicokinetics and systematic responses of differently sized indium tin oxide (ITO) particles in mice via oropharyngeal aspiration exposure. Environmental Pollution, 2021, 290, 117993. | 7.5 | 7 |
| 53 | Synthesis of Yâ€shaped poly(N,Nâ€dimethylaminoâ€2â€ethyl methacrylate) and poly(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (3.1 6 |
| 54 | Highly Efficient Dehydrogenation of Formic Acid over Binary Palladiumâ€“Phosphorous Alloy Nanoclusters on N-Doped Carbon. Inorganic Chemistry, 2021, 60, 10707-10714. | 4.0 | 6 |

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|---|---|---|---|
| 55 | Investigation on the Thermal Cracking of n -Decane under Supercritical Pressure by a Developed Online-Sampling Experimental Method. Petroleum Chemistry, 2020, 60, 39-44. | 1.4 | 5 |
| 56 | Effects of geometric parameters of rectangular cooling channel on pyrolysis carbon deposition in fuelâ€cooled plates. Canadian Journal of Chemical Engineering, 0, , . | 1.7 | 5 |
| 57 | Engineering Escherichia coli to produce Bordetella pertussis oligosaccharide with multiple trisaccharide units. Metabolic Engineering, 2022, 69, 147-162. | 7.0 | 5 |
| 58 | Efficient monolithic MnOx catalyst prepared by heat treatment for ozone decomposition. Environmental Science and Pollution Research, 2022, 29, 44324-44334. | 5.3 | 5 |
| 59 | Investigations on the thermal cracking and pyrolysis mechanism of China No.3 aviation kerosene under supercritical conditions. Petroleum Science and Technology, 2018, 36, 1396-1404. | 1.5 | 4 |
| 60 | Key role of NO + C3H8 reaction for the elimination of NO in automobile exhaust by three-way catalyst. Environmental Science and Pollution Research, 2019, 26, 26071-26081. | 5.3 | 4 |
| 61 | The promotion effects of TiO 2 on the selective catalytic reduction of NO x with NH 3 over ceo 2 â€WO 3 /ZrO 2 : The catalytic performance and reaction route. Canadian Journal of Chemical Engineering, 2019, 97, 1274-1282. | 1.7 | 4 |
| 62 | NiOâ€“MoO<sub>3</sub> promoted Pt/ZrO<sub>2</sub>â€“TiO<sub>2</sub>â€“Al<sub>2</sub>O<sub>3</sub> catalyst with excellent cracking performance of n-decane. Petroleum Science and Technology, 2020, 38, 595-601. | 1.5 | 4 |
| 63 | The inhibition mechanism of H2O at hydrothermal aging over Pt/SiO2-Al2O3 for NO oxidation. Journal of Environmental Chemical Engineering, 2021, 9, 105497. | 6.7 | 4 |
| 64 | Movement of lateral hyporheic flow between stream and groundwater. Science China Earth Sciences, 2017, 60, 2033-2040. | 5.2 | 3 |
| 65 | The preparation of Pd/CeO2â€“ZrO2â€“Al2O3 catalyst with superior structural stability: effect of zirconia incorporation method. Journal of Materials Science, 2020, 55, 9993-10008. | 3.7 | 3 |
| 66 | Enhanced performance of Pt-based diesel oxidation catalyst via defective MnOx: The role of Pt/MnOx interface. Molecular Catalysis, 2022, 521, 112198. | 2.0 | 3 |
| 67 | Atomic rearrangement on YMn2O5 modified Pt-based diesel oxidation catalyst for promoted performance. Applied Catalysis A: General, 2022, 643, 118742. | 4.3 | 2 |
| 68 | Catalytic cracking of n-decane over NiOâ€“MoO3 modified Pt/ZrO2â€“TiO2â€“Al2O3 catalyst with different Al2O3 ratios. Petroleum Chemistry, 2017, 57, 666-672. | 1.4 | 1 |
| 69 | Dispersion improvement and activity promotion of Pt catalysts supported on a Ce-based support by pH adjustment. New Journal of Chemistry, 2018, 42, 15639-15647. | 2.8 | 1 |
| 70 | The performance comparison in predicting n-decane pyrolysis process between three ANNs methods: MLP, RBFN and GRNN. Petroleum Science and Technology, 2019, 37, 1053-1058. | 1.5 | 0 |
| 71 | Modified Martin-Hou Equation of State Used in the Liquid Region for Pure Substances. Russian Journal of Physical Chemistry A, 2022, 96, S16-S26. | 0.6 | 0 |