# Kwangjin An

List of Publications by Year
in descending order

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| 62 | 9,052 | 109321 35 | 98798 67 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 67 | 67 | 67 | 13612 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Boosting Support Reducibility and Metal Dispersion by Exposed Surface Atom Control for Highly Active Supported Metal Catalysts. ACS Catalysis, 2022, 12, 4402-4414. | 11.2 | 19 |
| 2 | Boosting Thermal Stability of Volatile Os Catalysts by Downsizing to Atomically Dispersed Species. Jacs Au, 2022, 2, 1811-1817. | 7.9 | 4 |
| 3 | Complete utilization of waste lignin: preparation of lignin-derived carbon supports and conversion of lignin-derived guaiacol to nylon precursors. Catalysis Science and Technology, 2022, 12, 5021-5031. | 4.1 | 3 |
| 4 | Interfacial effect of Pd supported on mesoporous oxide for catalytic furfural hydrogenation. Catalysis Today, 2021, 365, 291-300. | 4.4 | 13 |
| 5 | Cu2O(100) surface as an active site for catalytic furfural hydrogenation. Applied Catalysis B: Environmental, 2021, 282, 119576. | 20.2 | 43 |
| 6 | Modified Metalâ€“Organic Frameworks as Efficient Catalysts for Lignocellulosic Biomass Conversion. Bulletin of the Korean Chemical Society, 2021, 42, 346-358. | 1.9 | 5 |
| 7 | Atomically Alloyed Feâ€“Co Catalyst Derived from a N-Coordinated Co Single-Atom Structure for CO<sub>2</sub> Hydrogenation. ACS Catalysis, 2021, 11, 2267-2278. | 11.2 | 48 |
| 8 | Methane oxidation to formaldehyde over vanadium oxide supported on various mesoporous silicas. Korean Journal of Chemical Engineering, 2021, 38, 1224-1230. | 2.7 | 5 |
| 9 | Layered Double Hydroxide-Derived Intermetallic Ni<sub>3</sub>GaC<sub>0.25</sub> Catalysts for Dry Reforming of Methane. ACS Catalysis, 2021, 11, 11091-11102. | 11.2 | 26 |
| 10 | Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. ACS Catalysis, 2021, 11, 1516-1527. | 11.2 | 20 |
| 11 | Influence of the Pt size and CeO<sub>2</sub> morphology at the Ptâ€“CeO<sub>2</sub> interface in CO oxidation. Journal of Materials Chemistry A, 2021, 9, 26381-26390. | 10.3 | 28 |
| 12 | Highly dispersed Pd catalysts supported on various carbons for furfural hydrogenation. Catalysis Today, 2020, 350, 71-79. | 4.4 | 30 |
| 13 | Structural evolution of ZIF-67-derived catalysts for furfural hydrogenation. Journal of Catalysis, 2020, 392, 302-312. | 6.2 | 25 |
| 14 | Recycling Carbon Dioxide through Catalytic Hydrogenation: Recent Key Developments and Perspectives. ACS Catalysis, 2020, 10, 11318-11345. | 11.2 | 215 |
| 15 | Al2O3-Coated Ni/CeO2 nanoparticles as coke-resistant catalyst for dry reforming of methane. Catalysis Science and Technology, 2020, 10, 8283-8294. | 4.1 | 22 |
| 16 | Cobalt Ferrite Nanoparticles to Form a Catalytic Coâ€“Fe Alloy Carbide Phase for Selective CO<sub>2</sub> Hydrogenation to Light Olefins. ACS Catalysis, 2020, 10, 8660-8671. | 11.2 | 95 |
| 17 | An efficient hydrogenation catalytic model hosted in a stable hyper-crosslinked porous-organic-polymer: from fatty acid to bio-based alkane diesel synthesis. Green Chemistry, 2020, 22, 2049-2068. | 9.0 | 61 |
| 18 | Synergistic effect of quinary molten salts and ruthenium catalyst for high-power-density lithium-carbon dioxide cell. Nature Communications, 2020, 11, 456. | 12.8 | 39 |

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|---|---|---|---|
| 19 | Structure-dependent catalytic properties of mesoporous cobalt oxides in furfural hydrogenation. Applied Catalysis A: General, 2019, 583, 117125. | 4.3 | 22 |
| 20 | Enhanced hot electron generation by inverse metalâ€“oxide interfaces on catalytic nanodiode. Faraday Discussions, 2019, 214, 353-364. | 3.2 | 13 |
| 21 | Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metalâ€“Organic-Framework-Derived Cuâ€“Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 10349-10362. | 6.7 | 83 |
| 22 | Mesoporous mixed CuCo oxides as robust catalysts for liquid-phase furfural hydrogenation. Applied Catalysis A: General, 2019, 571, 118-126. | 4.3 | 37 |
| 23 | Catalytic 1-Propanol Oxidation on Size-Controlled Platinum Nanoparticles at Solidâ€“Gas and Solidâ€“Liquid Interfaces: Significant Differences in Kinetics and Mechanisms. Journal of Physical Chemistry C, 2019, 123, 7577-7583. | 3.1 | 8 |
| 24 | Supported Pd nanoparticle catalysts with high activities and selectivities in liquid-phase furfural hydrogenation. Fuel, 2018, 226, 607-617. | 6.4 | 60 |
| 25 | Catalytic CO Oxidation on Nanocatalysts. Topics in Catalysis, 2018, 61, 986-1001. | 2.8 | 15 |
| 26 | Specific Metalâ€“Support Interactions between Nanoparticle Layers for Catalysts with Enhanced Methanol Oxidation Activity. ACS Catalysis, 2018, 8, 5391-5398. | 11.2 | 63 |
| 27 | Catalytic CO Oxidation over Au Nanoparticles Supported on CeO<sub>2</sub> Nanocrystals: Effect of the Auâ€“CeO<sub>2</sub> Interface. ACS Catalysis, 2018, 8, 11491-11501. | 11.2 | 173 |
| 28 | SiO2@V2O5@Al2O3 coreâ€“shell catalysts with high activity and stability for methane oxidation to formaldehyde. Journal of Catalysis, 2018, 368, 134-144. | 6.2 | 19 |
| 29 | Chemically impregnated NiO catalyst for molten electrolyte based gas-tank-free Li O2 battery. Journal of Power Sources, 2018, 402, 68-74. | 7.8 | 11 |
| 30 | Acidic effect of porous alumina as supports for Pt nanoparticle catalysts in n-hexane reforming. Catalysis Science and Technology, 2018, 8, 3295-3303. | 4.1 | 16 |
| 31 | Boosting hot electron flux and catalytic activity at metalâ€“oxide interfaces of PtCo bimetallic nanoparticles. Nature Communications, 2018, 9, 2235. | 12.8 | 80 |
| 32 | Transition Metal-Based Thiometallates as Surface Ligands for Functionalization of All-Inorganic Nanocrystals. Chemistry of Materials, 2017, 29, 10510-10517. | 6.7 | 13 |
| 33 | Postsynthesis Modulation of the Catalytic Interface inside a Hollow Nanoreactor: Exploitation of the Bidirectional Behavior of Mixed-Valent Mn<sub>3</sub>O<sub>4</sub> Phase in the Galvanic Replacement Reaction. Chemistry of Materials, 2016, 28, 9049-9055. | 6.7 | 21 |
| 34 | Photocatalytic H<sub>2</sub>generation on macro-mesoporous oxide-supported Pt nanoparticles. RSC Advances, 2016, 6, 18198-18203. | 3.6 | 14 |
| 35 | High-performance hybrid oxide catalyst of manganese and cobalt for low-pressure methanol synthesis. Nature Communications, 2015, 6, 6538. | 12.8 | 135 |
| 36 | Nanocatalysis I: Synthesis of Metal and Bimetallic Nanoparticles and Porous Oxides and Their Catalytic Reaction Studies. Catalysis Letters, 2015, 145, 233-248. | 2.6 | 120 |

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|---|---|---|---|
| 37 | Hollow MnOxPy and Pt/MnOxPy yolk/shell nanoparticles as a T1 MRI contrast agent. Journal of Colloid and Interface Science, 2015, 439, 134-138. | 9.4 | 7 |
| 38 | Evidence of Highly Active Cobalt Oxide Catalyst for the Fischerâ€“Tropsch Synthesis and CO<sub>2</sub> Hydrogenation. Journal of the American Chemical Society, 2014, 136, 2260-2263. | 13.7 | 211 |
| 39 | Effects of Nanoparticle Size and Metal/Support Interactions in Pt-Catalyzed Methanol Oxidation Reactions in Gas and Liquid Phases. Catalysis Letters, 2014, 144, 1930-1938. | 2.6 | 34 |
| 40 | Comparing the Catalytic Oxidation of Ethanol at the Solidâ€“Gas and Solidâ€“Liquid Interfaces over Size-Controlled Pt Nanoparticles: Striking Differences in Kinetics and Mechanism. Nano Letters, 2014, 14, 6727-6730. | 9.1 | 45 |
| 41 | High-Temperature Catalytic Reforming of n-Hexane over Supported and Coreâ€“Shell Pt Nanoparticle Catalysts: Role of Oxideâ€“Metal Interface and Thermal Stability. Nano Letters, 2014, 14, 4907-4912. | 9.1 | 69 |
| 42 | Designed Catalysts from Pt Nanoparticles Supported on Macroporous Oxides for Selective Isomerization of n-Hexane. Journal of the American Chemical Society, 2014, 136, 6830-6833. | 13.7 | 100 |
| 43 | Promotion of Hydrogenation of Organic Molecules by Incorporating Iron into Platinum Nanoparticle Catalysts: Displacement of Inactive Reaction Intermediates. ACS Catalysis, 2013, 3, 2371-2375. | 11.2 | 22 |
| 44 | Enhanced CO Oxidation Rates at the Interface of Mesoporous Oxides and Pt Nanoparticles. Journal of the American Chemical Society, 2013, 135, 16689-16696. | 13.7 | 361 |
| 45 | Preparation of mesoporous oxides and their support effects on Pt nanoparticle catalysts in catalytic hydrogenation of furfural. Journal of Colloid and Interface Science, 2013, 392, 122-128. | 9.4 | 90 |
| 46 | Influence of Size-Induced Oxidation State of Platinum Nanoparticles on Selectivity and Activity in Catalytic Methanol Oxidation in the Gas Phase. Nano Letters, 2013, 13, 2976-2979. | 9.1 | 99 |
| 47 | Isomerization of n-Hexane Catalyzed by Supported Monodisperse PtRh Bimetallic Nanoparticles. Catalysis Letters, 2013, 143, 907-911. | 2.6 | 20 |
| 48 | Sum Frequency Generation Vibrational Spectroscopy of Colloidal Platinum Nanoparticle Catalysts: Disordering versus Removal of Organic Capping. Journal of Physical Chemistry C, 2012, 116, 17540-17546. | 3.1 | 40 |
| 49 | Size and Shape Control of Metal Nanoparticles for Reaction Selectivity in Catalysis. ChemCatChem, 2012, 4, 1512-1524. | 3.7 | 467 |
| 50 | High Structure Sensitivity of Vapor-Phase Furfural Decarbonylation/Hydrogenation Reaction Network as a Function of Size and Shape of Pt Nanoparticles. Nano Letters, 2012, 12, 5196-5201. | 9.1 | 184 |
| 51 | Monodisperse Metal Nanoparticle Catalysts: Synthesis, Characterizations, and Molecular Studies Under Reaction Conditions. Topics in Catalysis, 2012, 55, 1257-1275. | 2.8 | 31 |
| 52 | Reforming of C6 Hydrocarbons Over Model Pt Nanoparticle Catalysts. Topics in Catalysis, 2012, 55, 723-730. | 2.8 | 19 |
| 53 | Synthesis of Uniformly Sized Manganese Oxide Nanocrystals with Various Sizes and Shapes and Characterization of Their T<sub>1</sub> Magnetic Resonance Relaxivity. European Journal of Inorganic Chemistry, 2012, 2012, 2148-2155. | 2.0 | 71 |
| 54 | Colloid chemistry of nanocatalysts: A molecular view. Journal of Colloid and Interface Science, 2012, 373, 1-13. | 9.4 | 90 |

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|---|---|---|---|
| 55 | Synthesis and biomedical applications of hollow nanostructures. Nano Today, 2009, 4, 359-373. | 11.9 | 370 |
| 56 | Synthesis of Uniform Hollow Oxide Nanoparticles through Nanoscale Acid Etching. Nano Letters, 2008, 8, 4252-4258. | 9.1 | 210 |
| 57 | Development of aT1â€...Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 5397-5401. | 13.8 | 545 |
| 58 | Cover Picture: Development of a T<sub>1</sub>â€...Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles (Angew. Chem. Int. Ed. 28/2007). Angewandte Chemie - International Edition, 2007, 46, 5247-5247. | 13.8 | 6 |
| 59 | Sea urchin shaped carbon nanostructured materials: carbon nanotubes immobilized on hollow carbon spheres. Journal of Materials Chemistry, 2006, 16, 2984. | 6.7 | 46 |
| 60 | Synthesis, Characterization, and Self-Assembly of Pencil-Shaped CoO Nanorods. Journal of the American Chemical Society, 2006, 128, 9753-9760. | 13.7 | 201 |
| 61 | Large-Scale Synthesis of Hexagonal Pyramid-Shaped ZnO Nanocrystals from Thermolysis of Znâ^'Oleate Complex. Journal of Physical Chemistry B, 2005, 109, 14792-14794. | 2.6 | 128 |
| 62 | Ultra-large-scale syntheses of monodisperse nanocrystals. Nature Materials, 2004, 3, 891-895. | 27.5 | 3,713 |