

# Kwangjin An

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

64  
papers

7,549  
citations

31  
h-index

67  
g-index

67  
ext. papers

8,282  
ext. citations

9.2  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
64	Methane oxidation to formaldehyde over vanadium oxide supported on various mesoporous silicas. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 1224-1230	2.8	2
63	Interfacial effect of Pd supported on mesoporous oxide for catalytic furfural hydrogenation. <i>Catalysis Today</i> , <b>2021</b> , 365, 291-300	5.3	3
62	Cu <sub>2</sub> O(100) surface as an active site for catalytic furfural hydrogenation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119576	21.8	15
61	Modified Metal-Organic Frameworks as Efficient Catalysts for Lignocellulosic Biomass Conversion. <i>Bulletin of the Korean Chemical Society</i> , <b>2021</b> , 42, 346-358	1.2	3
60	Atomically Alloyed Fe-Co Catalyst Derived from a N-Coordinated Co Single-Atom Structure for CO <sub>2</sub> Hydrogenation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2267-2278	13.1	11
59	Layered Double Hydroxide-Derived Intermetallic Ni <sub>3</sub> GaCo <sub>0.25</sub> Catalysts for Dry Reforming of Methane. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11091-11102	13.1	3
58	Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1516-1527	13.1	7
57	Al <sub>2</sub> O <sub>3</sub> -Coated Ni/CeO <sub>2</sub> nanoparticles as coke-resistant catalyst for dry reforming of methane. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 8283-8294	5.5	12
56	Cobalt Ferrite Nanoparticles to Form a Catalytic Co-Fe Alloy Carbide Phase for Selective CO <sub>2</sub> Hydrogenation to Light Olefins. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8660-8671	13.1	42
55	An efficient hydrogenation catalytic model hosted in a stable hyper-crosslinked porous-organic-polymer: from fatty acid to bio-based alkane diesel synthesis. <i>Green Chemistry</i> , <b>2020</b> , 22, 2049-2068	10	29
54	Synergistic effect of quinary molten salts and ruthenium catalyst for high-power-density lithium-carbon dioxide cell. <i>Nature Communications</i> , <b>2020</b> , 11, 456	17.4	22
53	Structural evolution of ZIF-67-derived catalysts for furfural hydrogenation. <i>Journal of Catalysis</i> , <b>2020</b> , 392, 302-312	7.3	9
52	Recycling Carbon Dioxide through Catalytic Hydrogenation: Recent Key Developments and Perspectives. <i>ACS Catalysis</i> , <b>2020</b> , 10, 11318-11345	13.1	74
51	Highly dispersed Pd catalysts supported on various carbons for furfural hydrogenation. <i>Catalysis Today</i> , <b>2020</b> , 350, 71-79	5.3	16
50	Enhanced hot electron generation by inverse metal-oxide interfaces on catalytic nanodiode. <i>Faraday Discussions</i> , <b>2019</b> , 214, 353-364	3.6	9
49	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal-Organic-Framework-Derived Cu-Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10349-10362	8.3	52
48	Structure-dependent catalytic properties of mesoporous cobalt oxides in furfural hydrogenation. <i>Applied Catalysis A: General</i> , <b>2019</b> , 583, 117125	5.1	16

47	Mesoporous mixed CuCo oxides as robust catalysts for liquid-phase furfural hydrogenation. <i>Applied Catalysis A: General</i> , <b>2019</b> , 571, 118-126	5.1	22
46	Catalytic 1-Propanol Oxidation on Size-Controlled Platinum Nanoparticles at Solid-Gas and Solid-Liquid Interfaces: Significant Differences in Kinetics and Mechanisms. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 7577-7583	3.8	5
45	Supported Pd nanoparticle catalysts with high activities and selectivities in liquid-phase furfural hydrogenation. <i>Fuel</i> , <b>2018</b> , 226, 607-617	7.1	42
44	Catalytic CO Oxidation on Nanocatalysts. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 986-1001	2.3	10
43	Specific Metal-Support Interactions between Nanoparticle Layers for Catalysts with Enhanced Methanol Oxidation Activity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5391-5398	13.1	44
42	Boosting hot electron flux and catalytic activity at metal-oxide interfaces of PtCo bimetallic nanoparticles. <i>Nature Communications</i> , <b>2018</b> , 9, 2235	17.4	56
41	Catalytic CO Oxidation over Au Nanoparticles Supported on CeO <sub>2</sub> Nanocrystals: Effect of the Au-CeO <sub>2</sub> Interface. <i>ACS Catalysis</i> , <b>2018</b> , 8, 11491-11501	13.1	112
40	SiO <sub>2</sub> @V <sub>2</sub> O <sub>5</sub> @Al <sub>2</sub> O <sub>3</sub> core-shell catalysts with high activity and stability for methane oxidation to formaldehyde. <i>Journal of Catalysis</i> , <b>2018</b> , 368, 134-144	7.3	15
39	Chemically impregnated NiO catalyst for molten electrolyte based gas-tank-free LiO <sub>2</sub> battery. <i>Journal of Power Sources</i> , <b>2018</b> , 402, 68-74	8.9	7
38	Acidic effect of porous alumina as supports for Pt nanoparticle catalysts in n-hexane reforming. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3295-3303	5.5	9
37	Transition Metal-Based Thiometallates as Surface Ligands for Functionalization of All-Inorganic Nanocrystals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10510-10517	9.6	11
36	Photocatalytic H <sub>2</sub> generation on macro-mesoporous oxide-supported Pt nanoparticles. <i>RSC Advances</i> , <b>2016</b> , 6, 18198-18203	3.7	12
35	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. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 9049-9055	9.6	15
34	High-performance hybrid oxide catalyst of manganese and cobalt for low-pressure methanol synthesis. <i>Nature Communications</i> , <b>2015</b> , 6, 6538	17.4	106
33	Nanocatalysis I: Synthesis of Metal and Bimetallic Nanoparticles and Porous Oxides and Their Catalytic Reaction Studies. <i>Catalysis Letters</i> , <b>2015</b> , 145, 233-248	2.8	95
32	Hollow MnOxPy and Pt/MnOxPy yolk/shell nanoparticles as a T1 MRI contrast agent. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 439, 134-8	9.3	6
31	Evidence of highly active cobalt oxide catalyst for the Fischer-Tropsch synthesis and CO <sub>2</sub> hydrogenation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2260-3	16.4	173
30	Effects of Nanoparticle Size and Metal/Support Interactions in Pt-Catalyzed Methanol Oxidation Reactions in Gas and Liquid Phases. <i>Catalysis Letters</i> , <b>2014</b> , 144, 1930-1938	2.8	26

29	Comparing the catalytic oxidation of ethanol at the solid-gas and solid-liquid interfaces over size-controlled Pt nanoparticles: striking differences in kinetics and mechanism. <i>Nano Letters</i> , <b>2014</b> , 14, 6727-30	11.5	38
28	High-temperature catalytic reforming of n-hexane over supported and core-shell Pt nanoparticle catalysts: role of oxide-metal interface and thermal stability. <i>Nano Letters</i> , <b>2014</b> , 14, 4907-12	11.5	53
27	Designed catalysts from Pt nanoparticles supported on macroporous oxides for selective isomerization of n-hexane. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6830-3	16.4	88
26	Promotion of Hydrogenation of Organic Molecules by Incorporating Iron into Platinum Nanoparticle Catalysts: Displacement of Inactive Reaction Intermediates. <i>ACS Catalysis</i> , <b>2013</b> , 3, 2371-2375 <sup>12,1</sup>	12.1	18
25	Enhanced CO oxidation rates at the interface of mesoporous oxides and Pt nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16689-96	16.4	311
24	Preparation of mesoporous oxides and their support effects on Pt nanoparticle catalysts in catalytic hydrogenation of furfural. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 392, 122-128	9.3	75
23	Influence of size-induced oxidation state of platinum nanoparticles on selectivity and activity in catalytic methanol oxidation in the gas phase. <i>Nano Letters</i> , <b>2013</b> , 13, 2976-9	11.5	83
22	Isomerization of n-Hexane Catalyzed by Supported Monodisperse PtRh Bimetallic Nanoparticles. <i>Catalysis Letters</i> , <b>2013</b> , 143, 907-911	2.8	17
21	Colloid chemistry of nanocatalysts: a molecular view. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 373, 1-13	9.3	77
20	Sum Frequency Generation Vibrational Spectroscopy of Colloidal Platinum Nanoparticle Catalysts: Disorder versus Removal of Organic Capping. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17540-17546 <sup>3,8</sup>	3.8	40
19	Size and Shape Control of Metal Nanoparticles for Reaction Selectivity in Catalysis. <i>ChemCatChem</i> , <b>2012</b> , 4, 1512-1524	5.2	376
18	High structure sensitivity of vapor-phase furfural decarbonylation/hydrogenation reaction network as a function of size and shape of Pt nanoparticles. <i>Nano Letters</i> , <b>2012</b> , 12, 5196-201	11.5	161
17	Monodisperse Metal Nanoparticle Catalysts: Synthesis, Characterizations, and Molecular Studies Under Reaction Conditions. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 1257-1275	2.3	26
16	Reforming of C6 Hydrocarbons Over Model Pt Nanoparticle Catalysts. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 723-730	2.3	18
15	Synthesis of Uniformly Sized Manganese Oxide Nanocrystals with Various Sizes and Shapes and Characterization of Their T1 Magnetic Resonance Relaxivity. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 2148-2155	2.3	62
14	Large-Scale Soft Colloidal Template Synthesis of 1.4 nm Thick CdSe Nanosheets. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 6993-6996	3.6	53
13	Synthesis and biomedical applications of hollow nanostructures. <i>Nano Today</i> , <b>2009</b> , 4, 359-373	17.9	337
12	Synthesis of uniform hollow oxide nanoparticles through nanoscale acid etching. <i>Nano Letters</i> , <b>2008</b> , 8, 4252-8	11.5	192

11	Development of a T1 contrast agent for magnetic resonance imaging using MnO nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5397-401	16.4	505
10	Cover Picture: Development of a T1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles (Angew. Chem. Int. Ed. 28/2007). <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5247-5247	16.4	4
9	Development of a T1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 5493-5497	3.6	119
8	Titelbild: Development of a T1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles (Angew. Chem. 28/2007). <i>Angewandte Chemie</i> , <b>2007</b> , 119, 5341-5341	3.6	4
7	Generalized Fabrication of Multifunctional Nanoparticle Assemblies on Silica Spheres. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 4907-4911	3.6	59
6	Sea urchin shaped carbon nanostructured materials: carbon nanotubes immobilized on hollow carbon spheres. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 2984		43
5	Synthesis, characterization, and self-assembly of pencil-shaped CoO nanorods. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9753-60	16.4	194
4	Large-scale synthesis of hexagonal pyramid-shaped ZnO nanocrystals from thermolysis of Zn-oleate complex. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14792-4	3.4	119
3	Ultra-large-scale syntheses of monodisperse nanocrystals. <i>Nature Materials</i> , <b>2004</b> , 3, 891-5	27	3372
2	Influence of the Pt size and CeO <sub>2</sub> morphology at the Pt/CeO <sub>2</sub> interface in CO oxidation. <i>Journal of Materials Chemistry A</i> ,	13	6
1	Boosting Support Reducibility and Metal Dispersion by Exposed Surface Atom Control for Highly Active Supported Metal Catalysts. <i>ACS Catalysis</i> , 4402-4414	13.1	2