Kwangjin An

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4903770/publications.pdf

Version: 2024-02-01

109137 98622 9,052 62 35 67 citations h-index g-index papers 67 67 67 13612 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Ultra-large-scale syntheses of monodisperse nanocrystals. Nature Materials, 2004, 3, 891-895.	13.3	3,713
2	Development of aT1â€Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 5397-5401.	7.2	545
3	Size and Shape Control of Metal Nanoparticles for Reaction Selectivity in Catalysis. ChemCatChem, 2012, 4, 1512-1524.	1.8	467
4	Synthesis and biomedical applications of hollow nanostructures. Nano Today, 2009, 4, 359-373.	6.2	370
5	Enhanced CO Oxidation Rates at the Interface of Mesoporous Oxides and Pt Nanoparticles. Journal of the American Chemical Society, 2013, 135, 16689-16696.	6.6	361
6	Recycling Carbon Dioxide through Catalytic Hydrogenation: Recent Key Developments and Perspectives. ACS Catalysis, 2020, 10, 11318-11345.	5. 5	215
7	Evidence of Highly Active Cobalt Oxide Catalyst for the Fischer–Tropsch Synthesis and CO ₂ Hydrogenation. Journal of the American Chemical Society, 2014, 136, 2260-2263.	6.6	211
8	Synthesis of Uniform Hollow Oxide Nanoparticles through Nanoscale Acid Etching. Nano Letters, 2008, 8, 4252-4258.	4.5	210
9	Synthesis, Characterization, and Self-Assembly of Pencil-Shaped CoO Nanorods. Journal of the American Chemical Society, 2006, 128, 9753-9760.	6.6	201
10	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.	4.5	184
11	Catalytic CO Oxidation over Au Nanoparticles Supported on CeO ₂ Nanocrystals: Effect of the Au–CeO ₂ Interface. ACS Catalysis, 2018, 8, 11491-11501.	5.5	173
12	High-performance hybrid oxide catalyst of manganese and cobalt for low-pressure methanol synthesis. Nature Communications, 2015, 6, 6538.	5.8	135
13	Large-Scale Synthesis of Hexagonal Pyramid-Shaped ZnO Nanocrystals from Thermolysis of Znâ^'Oleate Complex. Journal of Physical Chemistry B, 2005, 109, 14792-14794.	1.2	128
14	Nanocatalysis I: Synthesis of Metal and Bimetallic Nanoparticles and Porous Oxides and Their Catalytic Reaction Studies. Catalysis Letters, 2015, 145, 233-248.	1.4	120
15	Designed Catalysts from Pt Nanoparticles Supported on Macroporous Oxides for Selective Isomerization of <i>n</i> -Hexane. Journal of the American Chemical Society, 2014, 136, 6830-6833.	6.6	100
16	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.	4.5	99
17	Cobalt Ferrite Nanoparticles to Form a Catalytic Co–Fe Alloy Carbide Phase for Selective CO ₂ Hydrogenation to Light Olefins. ACS Catalysis, 2020, 10, 8660-8671.	5.5	95
18	Colloid chemistry of nanocatalysts: A molecular view. Journal of Colloid and Interface Science, 2012, 373, 1-13.	5.0	90

#	Article	IF	CITATIONS
19	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.	5.0	90
20	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metal–Organic-Framework-Derived Cu–Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 10349-10362.	3.2	83
21	Boosting hot electron flux and catalytic activity at metal–oxide interfaces of PtCo bimetallic nanoparticles. Nature Communications, 2018, 9, 2235.	5.8	80
22	Synthesis of Uniformly Sized Manganese Oxide Nanocrystals with Various Sizes and Shapes and Characterization of Their <i>T</i> ₁ Magnetic Resonance Relaxivity. European Journal of Inorganic Chemistry, 2012, 2012, 2148-2155.	1.0	71
23	High-Temperature Catalytic Reforming of <i>n</i>)-Hexane over Supported and Core–Shell Pt Nanoparticle Catalysts: Role of Oxide–Metal Interface and Thermal Stability. Nano Letters, 2014, 14, 4907-4912.	4.5	69
24	Specific Metal–Support Interactions between Nanoparticle Layers for Catalysts with Enhanced Methanol Oxidation Activity. ACS Catalysis, 2018, 8, 5391-5398.	5.5	63
25	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.	4.6	61
26	Supported Pd nanoparticle catalysts with high activities and selectivities in liquid-phase furfural hydrogenation. Fuel, 2018, 226, 607-617.	3.4	60
27	Atomically Alloyed Fe–Co Catalyst Derived from a N-Coordinated Co Single-Atom Structure for CO ₂ Hydrogenation. ACS Catalysis, 2021, 11, 2267-2278.	5.5	48
28	Sea urchin shaped carbon nanostructured materials: carbon nanotubes immobilized on hollow carbon spheres. Journal of Materials Chemistry, 2006, 16, 2984.	6.7	46
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. Nano Letters, 2014, 14, 6727-6730.	4.5	45
30	Cu2O(100) surface as an active site for catalytic furfural hydrogenation. Applied Catalysis B: Environmental, 2021, 282, 119576.	10.8	43
31	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.	1.5	40
32	Synergistic effect of quinary molten salts and ruthenium catalyst for high-power-density lithium-carbon dioxide cell. Nature Communications, 2020, 11, 456.	5.8	39
33	Mesoporous mixed CuCo oxides as robust catalysts for liquid-phase furfural hydrogenation. Applied Catalysis A: General, 2019, 571, 118-126.	2.2	37
34	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.	1.4	34
35	Monodisperse Metal Nanoparticle Catalysts: Synthesis, Characterizations, and Molecular Studies Under Reaction Conditions. Topics in Catalysis, 2012, 55, 1257-1275.	1.3	31
36	Highly dispersed Pd catalysts supported on various carbons for furfural hydrogenation. Catalysis Today, 2020, 350, 71-79.	2.2	30

#	Article	IF	CITATIONS
37	Influence of the Pt size and CeO ₂ morphology at the Pt–CeO ₂ interface in CO oxidation. Journal of Materials Chemistry A, 2021, 9, 26381-26390.	5.2	28
38	Layered Double Hydroxide-Derived Intermetallic Ni ₃ GaC _{0.25} Catalysts for Dry Reforming of Methane. ACS Catalysis, 2021, 11, 11091-11102.	5 . 5	26
39	Structural evolution of ZIF-67-derived catalysts for furfural hydrogenation. Journal of Catalysis, 2020, 392, 302-312.	3.1	25
40	Promotion of Hydrogenation of Organic Molecules by Incorporating Iron into Platinum Nanoparticle Catalysts: Displacement of Inactive Reaction Intermediates. ACS Catalysis, 2013, 3, 2371-2375.	5. 5	22
41	Structure-dependent catalytic properties of mesoporous cobalt oxides in furfural hydrogenation. Applied Catalysis A: General, 2019, 583, 117125.	2.2	22
42	Al2O3-Coated Ni/CeO2 nanoparticles as coke-resistant catalyst for dry reforming of methane. Catalysis Science and Technology, 2020, 10, 8283-8294.	2.1	22
43	Postsynthesis Modulation of the Catalytic Interface inside a Hollow Nanoreactor: Exploitation of the Bidirectional Behavior of Mixed-Valent Mn ₃ O ₄ Phase in the Galvanic Replacement Reaction. Chemistry of Materials, 2016, 28, 9049-9055.	3.2	21
44	Isomerization of n-Hexane Catalyzed by Supported Monodisperse PtRh Bimetallic Nanoparticles. Catalysis Letters, 2013, 143, 907-911.	1.4	20
45	Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. ACS Catalysis, 2021, 11, 1516-1527.	5.5	20
46	Reforming of C6 Hydrocarbons Over Model Pt Nanoparticle Catalysts. Topics in Catalysis, 2012, 55, 723-730.	1.3	19
47	SiO2@V2O5@Al2O3 core–shell catalysts with high activity and stability for methane oxidation to formaldehyde. Journal of Catalysis, 2018, 368, 134-144.	3.1	19
48	Boosting Support Reducibility and Metal Dispersion by Exposed Surface Atom Control for Highly Active Supported Metal Catalysts. ACS Catalysis, 2022, 12, 4402-4414.	5 . 5	19
49	Acidic effect of porous alumina as supports for Pt nanoparticle catalysts in n-hexane reforming. Catalysis Science and Technology, 2018, 8, 3295-3303.	2.1	16
50	Catalytic CO Oxidation on Nanocatalysts. Topics in Catalysis, 2018, 61, 986-1001.	1.3	15
51	Photocatalytic H ₂ generation on macro-mesoporous oxide-supported Pt nanoparticles. RSC Advances, 2016, 6, 18198-18203.	1.7	14
52	Transition Metal-Based Thiometallates as Surface Ligands for Functionalization of All-Inorganic Nanocrystals. Chemistry of Materials, 2017, 29, 10510-10517.	3.2	13
53	Enhanced hot electron generation by inverse metal–oxide interfaces on catalytic nanodiode. Faraday Discussions, 2019, 214, 353-364.	1.6	13
54	Interfacial effect of Pd supported on mesoporous oxide for catalytic furfural hydrogenation. Catalysis Today, 2021, 365, 291-300.	2.2	13

#	Article	IF	CITATIONS
55	Chemically impregnated NiO catalyst for molten electrolyte based gas-tank-free Li O2 battery. Journal of Power Sources, 2018, 402, 68-74.	4.0	11
56	Catalytic 1-Propanol Oxidation on Size-Controlled Platinum Nanoparticles at Solid–Gas and Solid–Liquid Interfaces: Significant Differences in Kinetics and Mechanisms. Journal of Physical Chemistry C, 2019, 123, 7577-7583.	1.5	8
57	Hollow MnOxPy and Pt/MnOxPy yolk/shell nanoparticles as a T1 MRI contrast agent. Journal of Colloid and Interface Science, 2015, 439, 134-138.	5.0	7
58	Cover Picture: Development of a <i>T</i> ₁ â€Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles (Angew. Chem. Int. Ed. 28/2007). Angewandte Chemie - International Edition, 2007, 46, 5247-5247.	7.2	6
59	Modified Metal–Organic Frameworks as Efficient Catalysts for Lignocellulosic Biomass Conversion. Bulletin of the Korean Chemical Society, 2021, 42, 346-358.	1.0	5
60	Methane oxidation to formaldehyde over vanadium oxide supported on various mesoporous silicas. Korean Journal of Chemical Engineering, 2021, 38, 1224-1230.	1.2	5
61	Boosting Thermal Stability of Volatile Os Catalysts by Downsizing to Atomically Dispersed Species. Jacs Au, 2022, 2, 1811-1817.	3.6	4
62	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.	2.1	3