Geun-Ho Han

List of Publications by Year
in descending order

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35 papers	719 citations	516710 16 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	761 citing authors

#	Article	IF	Citations
1	Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen over Mesoporous Silica-Shell-Coated, Palladium-Nanocrystal-Grafted SiO₂ Nanobeads. ACS Catalysis, 2017, 7, 3039-3048.	11.2	60
2	Shape-dependent catalytic activity of palladium nanoparticles for the direct synthesis of hydrogen peroxide from hydrogen and oxygen. Journal of Molecular Catalysis A, 2014, 391, 48-54.	4.8	58
3	Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen Using Tailored Pd Nanocatalysts: A Review of Recent Findings. Catalysis Surveys From Asia, 2017, 21, 1-12.	2.6	58
4	Revealing the factors determining the selectivity of guaiacol HDO reaction pathways using ZrP-supported Co and Ni catalysts. Journal of Catalysis, 2019, 377, 343-357.	6.2	43
5	Catalytically Active Au Layers Grown on Pd Nanoparticles for Direct Synthesis of H₂O₂: Lattice Strain and Charge-Transfer Perspective Analyses. ACS Nano, 2019, 13, 4761-4770.	14.6	42
6	Role of Pt atoms on Pd(1â€¯1â€¯1) surface in the direct synthesis of hydrogen peroxide: Nano-catalytic experiments and DFT calculations. Journal of Catalysis, 2018, 368, 237-247.	6.2	38
7	Coreâ€“shell structured, nano-Pd-embedded SiO2â€“Al2O3 catalyst (Pd@SiO2â€“Al2O3) for direct hydrogen peroxide synthesis from hydrogen and oxygen. Applied Catalysis A: General, 2016, 511, 87-94.	4.3	37
8	CeO2 promoted Ag/TiO2 catalyst for soot oxidation with improved active oxygen generation and delivery abilities. Journal of Hazardous Materials, 2020, 384, 121341.	12.4	35
9	Advanced Development Strategy of Nano Catalyst and DFT Calculations for Direct Synthesis of Hydrogen Peroxide. Advanced Energy Materials, 2021, 11, 2003121.	19.5	34
10	Studies on Catalytic Activity of Hydrogen Peroxide Generation according to Au Shell Thickness of Pd/Au Nanocubes. ACS Applied Materials & Interfaces, 2018, 10, 38109-38116.	8.0	32
11	Unlocking the Potential of Nanoparticles Composed of Immiscible Elements for Direct H2O2 Synthesis. ACS Catalysis, 2019, 9, 8702-8711.	11.2	32
12	Tailored Palladiumâ€“Platinum Nanoconcave Cubes as High Performance Catalysts for the Direct Synthesis of Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2020, 12, 6328-6335.	8.0	30
13	Highly dispersed Pd catalysts prepared by a sonochemical method for the direct synthesis of hydrogen peroxide. Molecular Catalysis, 2017, 429, 43-50.	2.0	23
14	Effect of polyvinylpyrrolidone (PVP) on palladium catalysts for direct synthesis of hydrogen peroxide from hydrogen and oxygen. RSC Advances, 2020, 10, 19952-19960.	3.6	22
15	A yolkâ€“shell structured Pd@void@ZrO2 catalyst for direct synthesis of hydrogen peroxide from hydrogen and oxygen. Journal of Molecular Catalysis A, 2016, 413, 1-6.	4.8	20
16	Promotional effect of Au on Fe/HZSM-5 catalyst for methane dehydroaromatization. Fuel, 2020, 274, 117852.	6.4	16
17	Anisotropic growth of Pt on Pd nanocube promotes direct synthesis of hydrogen peroxide. Applied Surface Science, 2021, 562, 150031.	6.1	16
18	Effect of shell thickness of Pd core-porous SiO2 shell catalysts on direct synthesis of H2O2 from H2 and O2. Journal of Molecular Catalysis A, 2017, 426, 238-243.	4.8	13

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19	Synthesis of Cu-Pd nanoplates and their catalytic performance for H2O2 generation reaction. Molecular Catalysis, 2018, 452, 117-122.	2.0	12
20	Facile Direct Seed-Mediated Growth of AuPt Bimetallic Shell on the Surface of Pd Nanocubes and Application for Direct H2O2 Synthesis. Catalysts, 2020, 10, 650.	3.5	12
21	Impact of the dopant-induced ensemble structure of hetero-double atom catalysts in electrochemical NH₃ production. Journal of Materials Chemistry A, 2022, 10, 6216-6230.	10.3	11
22	Ni-Doped MoS₂ Nanoparticles Prepared via Coreâ€“Shell Nanoclusters and Catalytic Activity for Upgrading Heavy Oil. Energy & Fuels, 2018, 32, 9263-9270.	5.1	10
23	Solid-solution alloying of immiscible Pt and Au boosts catalytic performance for H2O2 direct synthesis. Acta Materialia, 2021, 205, 116563.	7.9	10
24	Aqueous-phase synthesis of Pd/TiO2/Fe3O4 hybrid nanostructures and their enhanced catalytic properties. Chemical Physics Letters, 2018, 712, 13-19.	2.6	9
25	Low temperature benzene oxidation over copperâ€“silver catalyst: roles of copper oxide and silver on ceriumâ€“zirconium mixed oxide. Catalysis Science and Technology, 2020, 10, 6780-6789.	4.1	9
26	Crystal refinement of rutile by sonochemical method to achieve high performance Pd catalysts for direct synthesis of hydrogen peroxide. Catalysis Today, 2020, 352, 262-269.	4.4	8
27	Effects of chlorinated Pd precursors and preparation methods on properties and activity of Pd/TiO₂ catalysts. RSC Advances, 2020, 10, 41462-41470.	3.6	6
28	Deactivation resistance effect of alkane co-feeding on methane dehydroaromatization and active GaO+ species in Ga/HZSM-5 for BTX production. Fuel, 2022, 325, 124939.	6.4	6
29	Three-in-One Strategy to Improve Both Catalytic Activity and Selectivity: Nonconcentric Pdâ€“Au Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 11098-11105.	4.6	5
30	DFT calculations on selectivity enhancement by Br addition on Pd catalysts in the direct synthesis of hydrogen peroxide. Catalysis Today, 2022, 397-399, 232-239.	4.4	4
31	Facile Aqueousâ€“Phase Synthesis of Pdâ€“FePt Coreâ€“Shell Nanoparticles for Methanol Oxidation Reaction. Catalysts, 2021, 11, 130.	3.5	3
32	Effects of varying amounts of Na on Pd/TiO2 for the direct synthesis of H2O2: Identification of the Pd dispersion and catalytic activity enhancement by changing the surface electronic states. Molecular Catalysis, 2020, 484, 110732.	2.0	2
33	Effect of hydroxyapatite-doping in Na-W-Mn/SiO2 catalysts on oxidative coupling of methane. Korean Journal of Chemical Engineering, 2021, 38, 1818-1825.	2.7	2
34	Hydrogen Peroxide Synthesis: Advanced Development Strategy of Nano Catalyst and DFT Calculations for Direct Synthesis of Hydrogen Peroxide (Adv. Energy Mater. 27/2021). Advanced Energy Materials, 2021, 11, 2170104.	19.5	1
35	Recovery of Pd as PdO from Pd/SiO2 catalyst by leaching using hydrochloric acid. Journal of Material Cycles and Waste Management, 2021, 23, 1657-1664.	3.0	0