

# Importance of Size and Contact Structure of Gold Nano Unique Catalytic Processes

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis and NMR study of trimethylphosphine gold( $\langle \text{scp} \rangle$ )-appended calix[8]arenes as precursors of gold nanoparticles. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 953-960.	6.0	5
2	Dynamics of Pd Dopant Atoms inside Au Nanoclusters during Catalytic CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23626-23636.	3.1	28
3	Steric Effects of Mesoporous Silica Supported Bimetallic Au-Pt Catalysts on the Selective Aerobic Oxidation of Aromatic Alcohols. <i>Catalysts</i> , 2020, 10, 1192.	3.5	3
4	The direct synthesis of hydrogen peroxide over Au and Pd nanoparticles: A DFT study. <i>Catalysis Today</i> , 2021, 381, 76-85.	4.4	11
5	Supported metal and metal oxide particles with proximity effect for catalysis. <i>RSC Advances</i> , 2020, 10, 35449-35472.	3.6	32
6	A strong hydrangea-like Au@TiO <sub>2</sub> catalyst for round-the-clock degradation of oxalic acid in the presence of ozone. <i>Catalysis Science and Technology</i> , 2020, 10, 7481-7485.	4.1	5
7	Engineering ultrafine Pd clusters on laminar polyamide: A promising catalyst for benzyl alcohol oxidation under air in water. <i>Molecular Catalysis</i> , 2020, 497, 111203.	2.0	2
8	Elucidation of Active Sites of Gold Nanoparticles on Acidic Ta <sub>2</sub> O <sub>5</sub> Supports for CO Oxidation. <i>ACS Catalysis</i> , 2020, 10, 9328-9335.	11.2	17
9	Physical and Chemical Synthesis of Au/CeO <sub>2</sub> Nanoparticle Catalysts for Room Temperature CO Oxidation: A Comparative Study. <i>Catalysts</i> , 2020, 10, 1351.	3.5	10
10	Conversion of Au(III)-polluted waste eggshell into functional CaO/Au nanocatalyst for biodiesel production. <i>Green Energy and Environment</i> , 2022, 7, 352-359.	8.7	25
11	Au-Decorated Ce@Ti Mixed Oxides for Efficient CO Preferential Photooxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38019-38030.	8.0	12
12	Synthesis of Ag-Doped Polyoxotitanium Nanoclusters for Efficient Electrocatalytic CO <sub>2</sub> Reduction. <i>Inorganic Chemistry</i> , 2020, 59, 11442-11448.	4.0	23
13	Functional Mesoporous Silica Nanomaterials for Catalysis and Environmental Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1459-1496.	3.2	114
14	A DFT study of chemical ordering and oxygen adsorption in AuPtPd ternary nanoalloys. <i>Materials Today Communications</i> , 2020, 25, 101545.	1.9	4
15	Supported Metal Clusters: Fabrication and Application in Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2020, 10, 11011-11045.	11.2	260
16	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. <i>Accounts of Chemical Research</i> , 2020, 53, 2106-2118.	15.6	75
17	Catalytic Hydrodeoxygenation of Lignin-Derived Feedstock Into Arenes and Phenolics. <i>Frontiers in Chemical Engineering</i> , 2020, 2, .	2.7	7
18	Gold catalysts containing interstitial carbon atoms boost hydrogenation activity. <i>Nature Communications</i> , 2020, 11, 4600.	12.8	38

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19	Lights and Shadows of Gold Introduction into Beta Zeolite. <i>Molecules</i> , 2020, 25, 5781.	3.8	5
20	Polysulfone Influence on Au Selective Adsorbent Imprinted Membrane Synthesis with Sulfonated Poly(ethylene Glycol) as Functional Polymer. <i>Membranes</i> , 2020, 10, 390.	3.0	7
21	Homogeneous and Heterogeneous Gold Catalysis for Materials Science. <i>Chemical Reviews</i> , 2021, 121, 9113-9163.	47.7	139
22	Thermal Deactivation of Pd/CeO <sub>2</sub> and ZrO <sub>2</sub> Three-Way Catalysts during Real Engine Aging: Analysis by a Surface plus Peripheral Site Model. <i>ACS Omega</i> , 2020, 5, 28897-28906.	3.5	19
23	DECAY DYNAMICS IN MOLECULAR BEAMS. <i>Mass Spectrometry Reviews</i> , 2020, 40, 725-740.	5.4	9
24	A Review on Particle Size Effect in $\text{Metal}^{\text{I}}\text{-Catalyzed}$ Heterogeneous Reactions. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1422-1444.	4.9	69
25	Oxygen vacancies in metal oxides: recent progress towards advanced catalyst design. <i>Science China Materials</i> , 2020, 63, 2089-2118.	6.3	208
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27	There's no place like real-space: elucidating size-dependent atomic structure of nanomaterials using pair distribution function analysis. <i>Nanoscale Advances</i> , 2020, 2, 2234-2254.	4.6	71
28	Ultrastable and Highly Catalytically Active $\text{N}^{\text{H}}\text{-Heterocyclic}^{\text{C}}\text{-Carbene}^{\text{S}}$ Stabilized Gold Nanoparticles in Confined Spaces. <i>Angewandte Chemie</i> , 2020, 132, 16826.	2.0	17
29	Electron-Rich Gold Clusters Stabilized by Poly(vinylpyridines) as Robust and Active Oxidation Catalysts. <i>Langmuir</i> , 2020, 36, 7844-7849.	3.5	13
30	Size-Dependent Structures and Catalytic Performances of Au/TiO <sub>2</sub> -{001} Catalysts for Propene Epoxidation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15264-15274.	3.1	8
31	Ultrastable and Highly Catalytically Active $\text{N}^{\text{H}}\text{-Heterocyclic}^{\text{C}}\text{-Carbene}^{\text{S}}$ Stabilized Gold Nanoparticles in Confined Spaces. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16683-16689.	13.8	92
32	Assembly of RGO composite aerogels embedded with ultrasmall Au nanoparticles as an active and recyclable catalyst for reduction of 4-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103835.	6.7	11
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36	The Basic Properties of Gold Nanoparticles and their Applications in Tumor Diagnosis and Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2480.	4.1	200

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38	Cucurbiturils-Mediated Noble Metal Nanoparticles for Applications in Sensing, SERS, Theranostics, and Catalysis. <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	79
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45	Role and behavior of ultra-thin gold films on the fiber materials surface in the CO oxidation process. <i>Journal of Alloys and Compounds</i> , 2021, 852, 157042.	5.5	3
46	Toward Active-Site Tailoring in Heterogeneous Catalysis by Atomically Precise Metal Nanoclusters with Crystallographic Structures. <i>Chemical Reviews</i> , 2021, 121, 567-648.	47.7	361
47	Influence of hematite morphology on the CO oxidation performance of Au/Fe <sub>2</sub> O <sub>3</sub> . <i>Chinese Journal of Catalysis</i> , 2021, 42, 658-665.	14.0	13
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53	Deposition of highly dispersed gold nanoparticles onto metal phosphates by deposition-precipitation with aqueous ammonia. <i>Catalysis Science and Technology</i> , 2021, 11, 7141-7150.	4.1	5
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108	Metal nanoparticles in ionic liquids: Synthesis and catalytic applications. <i>Coordination Chemistry Reviews</i> , 2021, 445, 213982.	18.8	56



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110	Unsupported gold nanocones as sonocatalytic agents with enhanced catalytic properties. <i>Ultrasonics Sonochemistry</i> , 2021, 79, 105753.	8.2	7
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