

List of Publications by Citations

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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.

85 papers	3,684 citations	24 h-index	60 g-index
94 ext. papers	4,276 ext. citations	8.2 avg, IF	5.53 L-index

#	Paper	IF	Citations
85	Total structure determination of thiolate-protected Au ₃₈ nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8280-1	16.4	871
84	Atomically precise Au ₂₅ (SR) ₁₈ nanoparticles as catalysts for the selective hydrogenation of alpha,beta-unsaturated ketones and aldehydes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1295-8	16.4	426
83	Size Focusing: A Methodology for Synthesizing Atomically Precise Gold Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2903-2910	6.4	348
82	Thiolate-protected Au(n) nanoclusters as catalysts for selective oxidation and hydrogenation processes. <i>Advanced Materials</i> , 2010 , 22, 1915-20	24	207
81	Catalysis opportunities of atomically precise gold nanoclusters. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6793		179
80	Quantum-sized gold nanoclusters: bridging the gap between organometallics and nanocrystals. <i>Chemistry - A European Journal</i> , 2011 , 17, 6584-93	4.8	125
79	An atomic-level strategy for unraveling gold nanocatalysis from the perspective of Au(n)(SR) _m nanoclusters. <i>Chemistry - A European Journal</i> , 2010 , 16, 11455-62	4.8	122
78	Central Doping of a Foreign Atom into the Silver Cluster for Catalytic Conversion of CO toward C-C Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9775-9779	16.4	109
77	Atomically Precise Au ₂₅ (SR) ₁₈ Nanoparticles as Catalysts for the Selective Hydrogenation of α -Unsaturated Ketones and Aldehydes. <i>Angewandte Chemie</i> , 2010 , 122, 1317-1320	3.6	95
76	Exploring stereoselectivity of Au ₂₅ nanoparticle catalyst for hydrogenation of cyclic ketone. <i>Journal of Catalysis</i> , 2010 , 271, 155-160	7.3	90
75	Conversion of Polydisperse Au Nanoparticles into Monodisperse Au ₂₅ Nanorods and Nanospheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17599-17603	3.8	89
74	The Fourth Alloying Mode by Way of Anti-Galvanic Reaction. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4500-4504	16.4	57
73	Exploring the Effect of Co ₃ O ₄ Nanocatalysts with Different Dimensional Architectures on Methane Combustion. <i>ChemCatChem</i> , 2016 , 8, 540-545	5.2	54
72	Modulating the hierarchical/fibrous assembly of Au nanoparticles with atomic precision. <i>Nature Communications</i> , 2018 , 9, 3871	17.4	48
71	CO ₂ Hydrogenation to Ethanol over Cu@Na-Beta. <i>CheM</i> , 2020 , 6, 2673-2689	16.2	46
70	Noncrystalline metal-boron nanotubes: synthesis, characterization, and catalytic-hydrogenation properties. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7211-4	16.4	41
69	La ₂ O ₃ catalysts with diverse spatial dimensionality for oxidative coupling of methane to produce ethylene and ethane. <i>RSC Advances</i> , 2016 , 6, 34872-34876	3.7	41

68	Reversible Switching of Catalytic Activity by Shuttling an Atom into and out of Gold Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9964-9968	16.4	40
67	Online Kinetics Study of Oxidative Coupling of Methane over La ₂ O ₃ for Methane Activation: What Is Behind the Distinguished Light-off Temperatures?. <i>ACS Catalysis</i> , 2018 , 8, 11761-11772	13.1	37
66	Atomically precise Au ₂₅ superatoms immobilized on CeO ₂ nanorods for styrene oxidation. <i>Nanoscale</i> , 2013 , 5, 3668-72	7.7	33
65	Structural Relaxation Enabled by Internal Vacancy Available in a 24-Atom Gold Cluster Reinforces Catalytic Reactivity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4141-4153	16.4	29
64	Au@PdO with a PdO-rich shell and Au-rich core embedded in CoO nanorods for catalytic combustion of methane. <i>Nanoscale</i> , 2017 , 9, 2123-2128	7.7	28
63	Controllable Conversion of CO on Non-Metallic Gold Clusters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1919-1924	16.4	28
62	Central Doping of a Foreign Atom into the Silver Cluster for Catalytic Conversion of CO ₂ toward C≡C Bond Formation. <i>Angewandte Chemie</i> , 2018 , 130, 9923-9927	3.6	26
61	Excitonic AuRu(PPh)(SCHPh) cluster for light-driven dinitrogen fixation. <i>Chemical Science</i> , 2020 , 11, 2440-2447	9.4	23
60	Crystal-Facet Effect of Al ₂ O ₃ on Supporting CrOx for Catalytic Semihydrogenation of Acetylene. <i>ACS Catalysis</i> , 2018 , 8, 6419-6425	13.1	23
59	Ternary Heterostructural Pt/CN/Ni as a Supercatalyst for Oxygen Reduction. <i>IScience</i> , 2019 , 11, 388-397	6.1	22
58	De novo design of Au(SR) nanoclusters. <i>Nature Communications</i> , 2020 , 11, 3349	17.4	21
57	The Evolution in Catalytic Activity Driven by Periodic Transformation in the Inner Sites of Gold Clusters. <i>Advanced Functional Materials</i> , 2019 , 29, 1904242	15.6	21
56	Designing axial growth of Co-Ni bimetallic nanowires with hexagon-like caps and their catalytic hydrogenation for nitrobenzene. <i>Nanoscale</i> , 2016 , 8, 3949-53	7.7	20
55	Controllable synthesis of CuS nanotubes and nanobelts using lyotropic liquid crystal templates. <i>Journal of Materials Science</i> , 2007 , 42, 1042-1045	4.3	20
54	Ag Au (PET) Nanocluster: Dimeric Assembly of Au (PET) Enabled by Silver Atoms. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13941-13946	16.4	18
53	A facial strategy to synthesize Pd/Co ₃ O ₄ nanosheets with enhanced performance for methane catalytic oxidation. <i>Molecular Catalysis</i> , 2018 , 452, 28-35	3.3	17
52	3D charged grid induces a high performance catalyst: ruthenium clusters enclosed in X-zeolite for hydrogenation of phenol to cyclohexanone. <i>Catalysis Science and Technology</i> , 2017 , 7, 5953-5963	5.5	17
51	Precisely Constructed Silver Active Sites in Gold Nanoclusters for Chemical Fixation of CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10573-10576	16.4	16

50	Morphology-Reserved Synthesis of Discrete Nanosheets of CuO@SAPO-34 and Pore Mouth Catalysis for One-Pot Oxidation of Cyclohexane. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2606-2611	16.4	15
49	Reversible Switching of Catalytic Activity by Shuttling an Atom into and out of Gold Nanoclusters. <i>Angewandte Chemie</i> , 2019 , 131, 10069-10073	3.6	14
48	One-Dimensional Heterostructured Palladium Oxide-Cobalt Oxide Catalyst for the Catalytic Oxidation of Methane. <i>ChemCatChem</i> , 2017 , 9, 738-745	5.2	14
47	Reactivity and Lability Modulated by a Valence Electron Moving in and out of 25-Atom Gold Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21135-21142	16.4	14
46	Ultrasmall Au ₁₀ clusters anchored on pyramid-capped rectangular TiO ₂ for olefin oxidation. <i>Nano Research</i> , 2016 , 9, 1182-1192	10	13
45	Exclusively catalytic oxidation of toluene to benzaldehyde in an O/W emulsion stabilized by hexadecylphosphate acid terminated mixed-oxide nanoparticles. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 341-349	11.3	13
44	Cd-driven surface reconstruction and photodynamics in gold nanoclusters. <i>Chemical Science</i> , 2021 , 12, 3290-3294	9.4	13
43	Structure-Specific Catalytic Oxidation with O ₂ by Isomers in Au ₂₈ (SR) ₂₀ Nanoclusters. <i>ChemistrySelect</i> , 2018 , 3, 6165-6169	1.8	11
42	Precisely modulating the surface sites on atomically monodispersed gold-based nanoclusters for controlling their catalytic performances. <i>Nanoscale</i> , 2020 , 12, 18004-18012	7.7	11
41	The precise editing of surface sites on a molecular-like gold catalyst for modulating regioselectivity. <i>Chemical Science</i> , 2020 , 11, 8000-8004	9.4	10
40	Active-Site Tailoring of Gold Cluster Catalysts for Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2021 , 11, 11551-11560	13.1	10
39	Tuning the collective switching behavior of azobenzene/Au hybrid materials: flexible versus rigid azobenzene backbones and Au(111) surfaces versus curved Au nanoparticles. <i>Nanoscale</i> , 2017 , 9, 16700-16710 ⁹	7.7	9
38	Structural Effect of One-Dimensional Samarium Oxide Catalysts on Oxidative Coupling of Methane. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 3398-3404	1.3	9
37	The effect of electrostatic field on the catalytic properties of platinum clusters confined in zeolite for hydrogenation. <i>Catalysis Science and Technology</i> , 2018 , 8, 6384-6395	5.5	9
36	Selectivity switch in transformation of CO ₂ from ethanol to methanol on Cu embedded in the defect carbon. <i>Science China Chemistry</i> , 2020 , 63, 722-730	7.9	8
35	Unlocking the catalytic activity of an eight-atom gold cluster with a Pd atom. <i>Nanoscale</i> , 2020 , 12, 6020-6028	7.28	8
34	Structure-Dependent Selective Hydrogenation of α -Unsaturated Aldehydes over Platinum Nanocrystals Decorated with Nickel. <i>ChemPlusChem</i> , 2014 , 79, 1258-1262	2.8	8
33	An Au Cluster Fortified by Four Ferrocenes. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6061-6067	2.8	7

32	Electrochemical Aziridination of Tetrasubstituted Alkenes with Ammonia. <i>CCS Chemistry</i> , 872-882	7.2	7
31	The shape evolution from Pt _x Co _y @Co cubes to Pt _x Co _y multicubes for selective hydrogenation of α,β -unsaturated aldehyde. <i>Nanoscale</i> , 2016 , 8, 6451-5	7.7	6
30	In situ synthesis of horizontally aligned metal-boron alloy nanotubes on a silicon substrate with liquid crystal template. <i>Nanotechnology</i> , 2008 , 19, 405602	3.4	6
29	Precisely Constructed Silver Active Sites in Gold Nanoclusters for Chemical Fixation of CO ₂ . <i>Angewandte Chemie</i> , 2021 , 133, 10667-10670	3.6	6
28	Selective Hydrogenation of CO Dictated by Isomers in Au (SR) Nanoclusters: Which One is Better?. <i>Chemistry - A European Journal</i> , 2019 , 25, 9185-9190	4.8	5
27	Carbon nitride with encapsulated nickel for semi-hydrogenation of acetylene: pyridinic nitrogen is responsible for hydrogen dissociative adsorption. <i>Science China Chemistry</i> , 2018 , 61, 1014-1019	7.9	5
26	One-core-atom loss in a gold nanocluster promotes hydroamination reaction of alkynes. <i>Nanoscale</i> , 2019 , 11, 13767-13772	7.7	5
25	Noncrystalline Metal-Boron Nanotubes: Synthesis, Characterization, and Catalytic-Hydrogenation Properties. <i>Angewandte Chemie</i> , 2006 , 118, 7369-7372	3.6	5
24	Morphology-Reserved Synthesis of Discrete Nanosheets of CuO@SAPO-34 and Pore Mouth Catalysis for One-Pot Oxidation of Cyclohexane. <i>Angewandte Chemie</i> , 2020 , 132, 2628-2633	3.6	5
23	Suppressing the active site-blocking impact of ligands of Ni(SR) clusters with the assistance of NH ₃ on catalytic hydrogenation of nitriles. <i>Nanoscale</i> , 2018 , 10, 19375-19382	7.7	5
22	Planar versus Nonplanar Pd Clusters: Stability and CO Oxidation Activity of Pd Clusters with and without TiO ₂ (110) Substrate. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13739-13747	3.8	4
21	Distinct structure assembly driven by metal-ligand binding in Au nanoclusters and its relation to photocatalysis. <i>Chemical Communications</i> , 2021 , 57, 2176-2179	5.8	4
20	Tuning Selectivity in Catalytic Conversion of CO ₂ by One-Atom-Switching of Au ₉ and Au ₈ Pd ₁ Catalysts. <i>CCS Chemistry</i> , 408-420	7.2	4
19	Enhanced stability of Pd/Al ₂ O ₃ during aqueous oxidation reaction via SiH ₄ treatment. <i>Journal of Materials Science</i> , 2018 , 53, 15795-15803	4.3	3
18	Ligand-protected AuRu and AuRu nanoclusters: distinct structures and implications for site-cooperation catalysis. <i>Chemical Communications</i> , 2020 , 56, 12833-12836	5.8	3
17	Role of Graphite Felt Electrode and Electron Delocalization of Cinnamate Ester in Electrochemical Hydrogenation Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13871-13879	3.8	3
16	Electrocatalytic and photocatalytic applications of atomically precise gold-based nanoclusters. <i>Science China Chemistry</i> , 2021 , 64, 1065-1075	7.9	3
15	Evolution from superatomic AuAg monomers into molecular-like AuAg dimeric nanoclusters.. <i>Chemical Science</i> , 2022 , 13, 2778-2782	9.4	3

14	Ag ₂ Au ₅₀ (PET) ₃₆ Nanocluster: Dimeric Assembly of Au ₂₅ (PET) ₁₈ Enabled by Silver Atoms. <i>Angewandte Chemie</i> , 2020 , 132, 14045-14050	3.6	2
13	Controllable Conversion of CO ₂ on Non-Metallic Gold Clusters. <i>Angewandte Chemie</i> , 2020 , 132, 1935-1940	3.6	2
12	Reactivity and Lability Modulated by a Valence Electron Moving in and out of 25-Atom Gold Nanoclusters. <i>Angewandte Chemie</i> , 2020 , 132, 21321-21328	3.6	2
11	Contributions of Internal Atoms of Atomically Precise Metal Nanoclusters to Catalytic Performances. <i>Chemistry - A European Journal</i> , 2021 , 27, 11539-11547	4.8	2
10	The on-and-off dynamics of thiophene on a nickel cluster enables efficient hydrodesulfurization and excellent stability at high temperatures. <i>Nanoscale</i> , 2019 , 11, 4369-4375	7.7	2
9	Selective CO ₂ conversion tuned by periodicities in Au _{8n+4} (TBBT) _{4n+8} nanoclusters. <i>Nano Research</i> , 2021 , 14, 807-813	10	2
8	Predictable Catalysis of Electron-Rich Palladium Catalyst toward Aldehydes Hydrogenation. <i>ChemCatChem</i> , 2019 , 11, 3770-3775	5.2	1
7	On the photocatalysis evolution of heteroatom-doped AgM nanoclusters.. <i>RSC Advances</i> , 2021 , 11, 32526-32532	5.7	2
6	Evolution of catalytic activity driven by structural fusion of icosahedral gold cluster cores. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 245-250	11.3	1
5	Intramolecular hydroamination of alkynes driven by isomeric Au ₃₆ (SR) ₂₄ nanocluster catalysts. <i>Nano Research</i> , 1	10	1
4	Crystal-Facet Modulated CrO ₂ /FAO: Quasi-Liquid Surface Modification by Bonded Polydimethylsiloxane for Catalytic Oxidation of Propene. <i>Langmuir</i> , 2020 , 36, 10404-10411	4	0
3	Distinct chemical fixation of CO enabled by exotic gold nanoclusters. <i>Journal of Chemical Physics</i> , 2021 , 155, 054305	3.9	0
2	Catalytic Conversion of C ₁ Molecules on Atomically Precise Metal Nanoclusters. <i>CCS Chemistry</i> , 2771-2792	7.2	0
1	Visible-Light-Driven Methane Conversion with Oxygen Enabled by Atomically Precise Nickel Catalyst. <i>CCS Chemistry</i> , 2021 , 3, 2509-2519	7.2	0