

Photochemical route for synthesizing atomically dispersed

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Citation Report

#	ARTICLE	IF	CITATIONS
6	Single Co atom catalyst stabilized in C/N containing matrix. Chinese Journal of Catalysis, 2016, 37, 1443-1445.	14.0	15
7	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. Angewandte Chemie - International Edition, 2016, 55, 14310-14314.	13.8	612
8	Reactivity of Metal Clusters. Chemical Reviews, 2016, 116, 14456-14492.	47.7	359
9	High-Performance Ru ₁ /CeO ₂ Single-Atom Catalyst for CO Oxidation: A Computational Exploration. ChemPhysChem, 2016, 17, 3170-3175.	2.1	47
10	Highly doped and exposed Cu(<i>scp</i>) ⁱ / _{scp}) ⁿ active sites within graphene towards efficient oxygen reduction for zinc-air batteries. Energy and Environmental Science, 2016, 9, 3736-3745.	30.8	374
11	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. Angewandte Chemie, 2016, 128, 14522-14526.	2.0	174
12	Atomically Dispersed Ru on Ultrathin Pd Nanoribbons. Journal of the American Chemical Society, 2016, 138, 13850-13853.	13.7	132
13	Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh ₃) ₃ . Angewandte Chemie, 2016, 128, 16288-16292.	2.0	67
14	Explaining the Size Dependence in Platinum-Nanoparticle-Catalyzed Hydrogenation Reactions. Angewandte Chemie, 2016, 128, 15885-15890.	2.0	44
15	Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh ₃) ₃ . Angewandte Chemie - International Edition, 2016, 55, 16054-16058.	13.8	376
16	Explaining the Size Dependence in Platinum-Nanoparticle-Catalyzed Hydrogenation Reactions. Angewandte Chemie - International Edition, 2016, 55, 15656-15661.	13.8	225
17	Cluster-like molybdenum phosphide anchored on reduced graphene oxide for efficient hydrogen evolution over a broad pH range. Chemical Communications, 2016, 52, 9530-9533.	4.1	102
18	A review on g-C ₃ N ₄ -based photocatalysts. Applied Surface Science, 2017, 391, 72-123.	6.1	2,318
19	Pd/TiO Nanocatalyst with Strong Metal-Support Interaction for Highly Efficient Durable Heterogeneous Hydrogenation. Journal of Physical Chemistry C, 2017, 121, 1162-1170.	3.1	54
20	Accelerated room-temperature crystallization of ultrahigh-surface-area porous anatase titania by storing photogenerated electrons. Chemical Communications, 2017, 53, 1619-1621.	4.1	19
21	Synthesis of Highly Active Sub-Nanometer Pt@Rh Core-Shell Nanocatalyst via a Photochemical Route: Porous Titania Nanoplates as a Superior Photoactive Support. Small, 2017, 13, 1603879.	10.0	40
22	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. Advanced Functional Materials, 2017, 27, 1605785.	14.9	249
23	Surface Coordination Chemistry of Metal Nanomaterials. Journal of the American Chemical Society, 2017, 139, 2122-2131.	13.7	522

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24	A review of TiO ₂ nanostructured catalysts for sustainable H ₂ generation. International Journal of Hydrogen Energy, 2017, 42, 8418-8449.	7.1	309
25	Interface confined hydrogen evolution reaction in zero valent metal nanoparticles-intercalated molybdenum disulfide. Nature Communications, 2017, 8, 14548.	12.8	174
26	Direct aerobic oxidative homocoupling of benzene to biphenyl over functional porous organic polymer supported atomically dispersed palladium catalyst. Applied Catalysis B: Environmental, 2017, 209, 679-688.	20.2	47
27	CO oxidation on single Pd atom embedded defect-graphene via a new termolecular Eley-Rideal mechanism. Carbon, 2017, 118, 35-42.	10.3	164
28	A Novel Magnetically Recoverable Ni-CeO ₂ /Pd Nanocatalyst with Superior Catalytic Performance for Hydrogenation of Styrene and 4-Nitrophenol. ACS Applied Materials & Interfaces, 2017, 9, 9756-9762.	8.0	75
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34	Hydrogenation/oxidation triggered highly efficient reversible color switching of organic molecules. Catalysis Science and Technology, 2017, 7, 1379-1385.	4.1	9
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44	Ultrathin TiO ₂ (B) Nanosheets as the Inductive Agent for Transferring H ₂ O ₂ into Superoxide Radicals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15533-15540.	8.0	51
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47	Hydrogenation/oxidation induced efficient reversible color switching between methylene blue and leuco-methylene blue. <i>RSC Advances</i> , 2017, 7, 30080-30085.	3.6	32
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49	Atomic scale deposition of Pt around Au nanoparticles to achieve much enhanced electrocatalysis of Pt. <i>Nanoscale</i> , 2017, 9, 7745-7749.	5.6	24
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54	Ptâ€“WO on monoclinic or tetrahedral ZrO ₂ : Crystal phase effect of zirconia on glycerol hydrogenolysis to 1,3-propanediol. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 331-341.	20.2	101
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61	CO Oxidation on Metal Oxide Supported Single Pt atoms: The Role of the Support. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6916-6925.	3.7	94
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73	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16086-16090.	13.8	431
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76	Preparation, characterization and catalytic performance of single-atom catalysts. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1528-1539.	14.0	65
77	Controllable decoration of palladium sub-nanoclusters on reduced graphene oxide with superior catalytic performance in selective oxidation of alcohols. <i>Catalysis Science and Technology</i> , 2017, 7, 5650-5661.	4.1	15

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97	Semihydrogenation of Acetylene on Indium Oxide: Proposed Single-Atom Ensemble Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10755-10760.	13.8	82
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1020	Zeolite-encapsulated single-atom catalysts for efficient CO ₂ conversion. Journal of CO ₂ Utilization, 2021, 54, 101777.	6.8	11
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1022	Comparison of the catalytic performance of Au/TiO ₂ prepared by <i>in situ</i> photodeposition and deposition precipitation methods for CO oxidation at room temperature under visible light irradiation. Catalysis Science and Technology, 2022, 12, 237-249.	4.1	12
1023	Water Purification Using Subnanostructured Photocatalysts. ACS Symposium Series, 2020, , 189-225.	0.5	0
1024	Ligand-Free Sub-Nanometer Metal Clusters in Catalysis. Molecular Catalysis, 2020, , 1-37.	1.3	0
1025	Facet-engineering palladium nanocrystals for remarkable photocatalytic dechlorination of polychlorinated biphenyls. Catalysis Science and Technology, 2022, 12, 192-200.	4.1	5
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1027	Nanoscale electrodeposition: Dimension control and 3D conformality. Exploration, 2021, 1, .	11.0	46
1028	Atomic-Scale Pd on 2D Titania Sheets for Selective Oxidation of Methane to Methanol. ACS Catalysis, 2021, 11, 14038-14046.	11.2	41
1029	Boosting Activity and Stability of Metal Single-Atom Catalysts via Regulation of Coordination Number and Local Composition. Journal of the American Chemical Society, 2021, 143, 18854-18858.	13.7	93
1030	Rational construction of thermally stable single atom catalysts: From atomic structure to practical applications. Chinese Journal of Catalysis, 2022, 43, 71-91.	14.0	15
1031	Race on High-loading Metal Single Atoms and Successful Preparation Strategies. ChemCatChem, 2022, 14, .	3.7	14
1032	Scalable two-step annealing method for preparing ultra-high-density single-atom catalyst libraries. Nature Nanotechnology, 2022, 17, 174-181.	31.5	279
1033	Atomically dispersed palladium catalyzes H/D exchange and isomerization of alkenes via reversible insertion and elimination. Chem Catalysis, 2021, 1, 1480-1492.	6.1	13
1034	Advanced Support Materials and Interactions for Atomically Dispersed Noble-Metal Catalysts: From Support Effects to Design Strategies. Advanced Energy Materials, 2022, 12, 2102556.	19.5	78
1035	Forest-like Laser-Induced Graphene Film with Ultrahigh Solar Energy Utilization Efficiency. ACS Nano, 2021, 15, 19490-19502.	14.6	90
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1038	Atomic-level insights into the steric hindrance effect of single-atom Pd catalyst to boost the synthesis of dimethyl carbonate. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120922.	20.2	22
1039	Heterogeneous Single Atom Environmental Catalysis: Fundamentals, Applications, and Opportunities. <i>Advanced Functional Materials</i> , 2022, 32, 2108381.	14.9	51
1040	Striding the threshold of an atom era of organic synthesis by single-atom catalysis. <i>CheM</i> , 2022, 8, 119-140.	11.7	71
1041	Atomically dispersed iridium on MgO(111) nanosheets catalyses benzeneâ€“ethylene coupling towards styrene. <i>Nature Catalysis</i> , 2021, 4, 968-975.	34.4	35
1042	Metalâ€“Organicâ€“Frameworkâ€“Based Singleâ€“Atomic Catalysts for Energy Conversion and Storage: Principles, Advances, and Theoretical Understandings. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	7
1043	Waterâ€“Involved Ringâ€“Opening of 4â€“Phenylâ€“1,2,4â€“triazolineâ€“3,5â€“dione for â€“Photoâ€“Clickedâ€“Access to Carbamoyl Formazan Photoswitches In Situ. <i>Chemistry - an Asian Journal</i> , 2022, 17, e202101239.	3.3	3
1044	Photo-assisted sequential assembling of uniform metal nanoclusters on semiconductor support. <i>IScience</i> , 2022, 25, 103572.	4.1	8
1045	Atomicâ€“Level Metal Electrodeposition: Synthetic Strategies, Applications, and Catalytic Mechanism in Electrochemical Energy Conversion. <i>Small Structures</i> , 2022, 3, 2100185.	12.0	29
1046	Highly dispersed rhodium atoms supported on defect-rich Co(OH) ₂ for the chemoselective hydrogenation of nitroarenes. <i>New Journal of Chemistry</i> , 2022, 46, 1158-1167.	2.8	7
1047	Identifying TM-N4 active sites for selective CO ₂ -to-CH ₄ conversion: A computational study. <i>Applied Surface Science</i> , 2022, 582, 152470.	6.1	16
1048	Photodeposition of alloyed Au-Pt nanoparticles on TiO ₂ for the enhanced catalytic oxidation of HCHO at room temperature. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163140.	5.5	11
1049	Unveiling the critical role of active site interaction in single atom catalyst towards hydrogen evolution catalysis. <i>Nano Energy</i> , 2022, 93, 106819.	16.0	19
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1051	Atomically dispersed Feâ€“N _x species within a porous carbon framework: an efficient catalyst for Liâ€“CO ₂ batteries. <i>Nanoscale</i> , 2022, 14, 4511-4518.	5.6	9
1052	Direct deoxygenation of active allylic alcohols <i>via</i> metal-free catalysis. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1680-1689.	2.8	3
1053	Superiority of Dualâ€“Atom Catalysts in Electrocatalysis: One Step Further Than Singleâ€“Atom Catalysts. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	189
1054	Size-dependent selectivity of iron-based electrocatalysts for electrochemical CO ₂ reduction. <i>Sustainable Energy and Fuels</i> , 2022, 6, 736-743.	4.9	5

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1056	Water-mediated hydrogen spillover accelerates hydrogenative ring-rearrangement of furfurals to cyclic compounds. <i>Journal of Catalysis</i> , 2022, 405, 363-372.	6.2	24
1058	Overcoming Acidic H ₂ O ₂ /Fe(II/III) Redox-Induced Low H ₂ O ₂ Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis. <i>Environmental Science & Technology</i> , 2022, 56, 2617-2625.	10.0	54
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1060	Stability of single-atom catalysts for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5835-5849.	10.3	40
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1062	Selective hydrogenation of substituted styrene to alkylbenzene catalyzed by Al ₂ O ₃ nanoparticles. <i>Research on Chemical Intermediates</i> , 2022, 48, 1495.	2.7	0
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1066	Synthetic strategies of single-atoms catalysts and applications in electrocatalysis. <i>Electrochimica Acta</i> , 2022, 409, 139835.	5.2	8
1067	Facile one-pot synthesis of functional hydrochar catalyst for biomass valorization. <i>Fuel</i> , 2022, 315, 123172.	6.4	7
1068	Unraveling the reinforced photoelectrocatalytic activity and stability via unique configuration of P ³⁺ -Ov-Ti ³⁺ in TiO _{2-x} nanotube array. <i>Chemical Engineering Journal</i> , 2022, 435, 134908.	12.7	2
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1075	Atomically Dispersed Fe-N <sub>x</sub> <sub>y</sub> Species within Porous Carbon Framework: An Efficient Catalyst for Li-CO <sub>2</sub> <sub>z</sub> Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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1077	Conversion of biomass-derived feedstocks into value-added chemicals over single-atom catalysts. <i>Green Chemistry</i> , 2022, 24, 2267-2286.	9.0	45
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1079	Strategies for boosting the activity of single-atom catalysts for future energy applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10297-10325.	10.3	14
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1088	Single-atom sites on perovskite chips for record-high sensitivity and quantification in SERS. <i>Science China Materials</i> , 2022, 65, 1601-1614.	6.3	6
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1106	Selective semi-hydrogenation of internal alkynes catalyzed by Pd@CaCO ₃ clusters. Journal of Catalysis, 2022, 408, 43-55.	6.2	29
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1116	A General Strategy to Immobilize Single-Atom Catalysts in Metal-Organic Frameworks for Enhanced Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2109203.	21.0	80
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1127	Solid surface frustrated Lewis pair constructed on layered AlOOH for hydrogenation reaction. <i>Nature Communications</i> , 2022, 13, 2320.	12.8	32
1128	Site-Specific Electron-Driving Observations of CO ₂ to CH ₄ Photoreduction on Co-Doped CeO ₂ /Crystalline Carbon Nitride S-Scheme Heterojunctions. <i>Advanced Materials</i> , 2022, 34, e2200929.	21.0	90
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1130	Reduction-Controlled Atomic Migration for Single Atom Alloy Library. <i>Nano Letters</i> , 2022, 22, 4232-4239.	9.1	20
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1158	Titanium Dioxide-Supported Iron Species with Efficiently Photocatalytic Performance. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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1162	Rational Design of Synergistic Structure Between Single-Atoms and Nanoparticles for CO ₂ Hydrogenation to Formate Under Ambient Conditions. <i>Frontiers in Chemistry</i> , 0, 10, .	3.6	3
1163	Calculation screening of Janus WSSe monolayer modified with single platinum group metal atom as efficient bifunctional oxygen electrocatalysts. <i>Applied Catalysis A: General</i> , 2022, 643, 118777.	4.3	6
1164	Photochemical dehydrogenation of N-heterocycles over MOF-supported CdS nanoparticles with nickel modification. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121708.	20.2	14
1165	Bifunctional electrocatalyst with CoN ₃ active sites dispersed on N-doped graphitic carbon nanosheets for ultrastable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121674.	20.2	48
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