

Single Atom Hot-Spots at Au-Pd Nanoalloys for Electrocatalytic H_2O_2 Production

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Citation Report

#	ARTICLE	IF	CITATIONS
5	Trisoctahedral Au@Pd Alloy Nanocrystals with High-Index Facets and Their Excellent Catalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 16626-16630.	1.7	42
6	Potential-Dependent Structural Memory Effects in Au@Pd Nanoalloys. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 315-321.	2.1	39
7	Enhancement in Aerobic Alcohol Oxidation Catalysis of Au ₂₅ Clusters by Single Pd Atom Doping. <i>ACS Catalysis</i> , 2012, 2, 1519-1523.	5.5	358
8	Electrocatalytic reduction of coreactant by highly loaded dendrimer-encapsulated palladium nanoparticles for sensitive electrochemiluminescent immunoassay. <i>Chemical Communications</i> , 2012, 48, 9159.	2.2	32
9	First-principles investigations of O ₂ dissociation on low-coordinated Pd ensembles over stepped Au surfaces. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3432-3438.	0.9	11
10	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. <i>Nano Today</i> , 2012, 7, 448-466.	6.2	463
11	Reduction of Oxygen on Dispersed Nanocrystalline CoS ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 24436-24444.	1.5	60
12	Mesoporous Nitrogen-Doped Carbon for the Electrocatalytic Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2012, 134, 4072-4075.	6.6	609
13	One-pot, seedless synthesis of flowerlike Au@Pd bimetallic nanoparticles with core-shell-like structure via sodium citrate coreduction of metal ions. <i>CrystEngComm</i> , 2012, 14, 7036.	1.3	33
14	Facile synthesis of trimetallic AuPtPd alloy nanowires and their catalysis for ethanol electrooxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 14851.	6.7	73
15	Brønsted-Evans-Polanyi Relations for H ₂ O ₂ Synthesis on Gold Surfaces. <i>Catalysis Letters</i> , 2012, 142, 601-607.	1.4	6
16	Core/shell Ni@Pd nanoparticles supported on MWCNTs at improved electrocatalytic performance for alcohol oxidation in alkaline media. <i>Electrochimica Acta</i> , 2012, 77, 237-243.	2.6	97
17	CO oxidation on Cu-doped Ag clusters. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	9
18	Au@Pd Core-Shell Nanobricks with Concave Structures and Their Catalysis of Ethanol Oxidation. <i>ChemSusChem</i> , 2013, 6, 1945-1951.	3.6	32
19	Hydrodechlorination catalysis of Pd-on-Au nanoparticles varies with particle size. <i>Journal of Catalysis</i> , 2013, 298, 206-217.	3.1	60
20	Understanding the synergistic effects of gold bimetallic catalysts. <i>Journal of Catalysis</i> , 2013, 308, 258-271.	3.1	178
21	Hybrid Pt Nanostructures by Metallization of Organic Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22746-22755.	1.5	6
22	Enabling direct H ₂ O ₂ production through rational electrocatalyst design. <i>Nature Materials</i> , 2013, 12, 1137-1143.	13.3	1,031

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23	Component-controlled Synthesis of Small-sized Pd-Ag Bimetallic Alloy Nanocrystals and Their Application in a Non-enzymatic Glucose Biosensor. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 549-556.	1.2	27
24	Validation of binuclear descriptor for mixed transition metal oxide supported electrocatalytic water oxidation. <i>Catalysis Today</i> , 2013, 202, 114-119.	2.2	32
25	Selectivity of cobalt-based catalysts towards hydrogen peroxide formation during the reduction of oxygen. <i>Catalysis Today</i> , 2013, 202, 135-143.	2.2	45
26	CO Oxidation on the Ag-Doped Au Nanoparticles. <i>Catalysis Letters</i> , 2013, 143, 84-92.	1.4	21
27	Electrocatalysis of oxygen reduction on electrodeposited Pd coatings on gold. <i>Journal of Electroanalytical Chemistry</i> , 2013, 691, 35-41.	1.9	22
28	DFT study on stability and H ₂ adsorption activity of bimetallic Au ₇₉ Pd (n = 1-55) clusters. <i>Chemical Physics</i> , 2013, 415, 179-185.	0.9	20
29	Tandem cathode for proton exchange membrane fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9326.	1.3	53
30	Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis. <i>Accounts of Chemical Research</i> , 2013, 46, 1740-1748.	7.6	3,405
31	Heterogeneous Catalysis by Gold-based Bimetallic Catalysts. <i>Recent Patents on Catalysis</i> , 2013, 2, 2-46.	0.2	4
32	Oxygen reduction reaction on Cu-doped Ag cluster for fuel-cell cathode. <i>Journal of Molecular Modeling</i> , 2014, 20, 2454.	0.8	16
33	Hydrogen Peroxide Synthesis via Enhanced Two-Electron Oxygen Reduction Pathway on Carbon-Coated Pt Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 30063-30070.	1.5	248
34	From single crystal surfaces to single atoms: investigating active sites in electrocatalysis. <i>Nanoscale</i> , 2014, 6, 4012-4026.	2.8	60
35	Promotional effect of Pd single atoms on Au nanoparticles supported on silica for the selective hydrogenation of acetylene in excess ethylene. <i>New Journal of Chemistry</i> , 2014, 38, 2043.	1.4	151
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38	Single Crystal (Mn,Co) ₃ O ₄ Octahedra for Highly Efficient Oxygen Reduction Reactions. <i>Electrochimica Acta</i> , 2014, 144, 31-41.	2.6	35
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40	Colloidal Au single-atom catalysts embedded on Pd nanoclusters. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13498-13508.	5.2	65

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42	Trends in the Electrochemical Synthesis of H ₂ O ₂ : Enhancing Activity and Selectivity by Electrocatalytic Site Engineering. Nano Letters, 2014, 14, 1603-1608.	4.5	521
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53	Highly Efficient AuPd/Carbon Nanotube Nanocatalysts for the Electro-Fenton Process. Chemistry - A European Journal, 2015, 21, 7611-7620.	1.7	30
54	High-Yield Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction by Hierarchically Porous Carbon. Angewandte Chemie - International Edition, 2015, 54, 6837-6841.	7.2	419
55	Kinetic analysis of the reduction of 4-nitrophenol catalyzed by Au/Pd nanoalloys immobilized in spherical polyelectrolyte brushes. Physical Chemistry Chemical Physics, 2015, 17, 28137-28143.	1.3	83
56	Catalysis on Single Supported Atoms. , 2015, , 263-274.		4
57	Applications of Electron Microscopy in Heterogeneous Catalysis. , 2015, , 193-238.		1
58	Efficient Mineralization of Perfluorooctanoate by Electro-Fenton with H ₂ O ₂ Electro-generated on Hierarchically Porous Carbon. Environmental Science & Technology, 2015, 49, 13528-13533.	4.6	174
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61	One-pot synthesis of gold-palladium@palladium core-shell nanoflowers as efficient electrocatalyst for ethanol electrooxidation. <i>Journal of Power Sources</i> , 2015, 278, 430-435.	4.0	42
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64	Regenerable Subnanometer Pd Clusters on Zirconia for Highly Selective Hydrogenation of Biomass-Derived Succinic Acid in Water. <i>Catalysts</i> , 2016, 6, 100.	1.6	2
65	Au-Based Catalysts: Electrochemical Characterization for Structural Insights. <i>Molecules</i> , 2016, 21, 261.	1.7	8
66	Bimetallic Catalysts Containing Gold and Palladium for Environmentally Important Reactions. <i>Catalysts</i> , 2016, 6, 97.	1.6	54
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68	Atomically dispersed Pd catalysts for the selective hydrogenation of succinic acid to $\hat{1}$ -butyrolactone. <i>Catalysis Today</i> , 2016, 276, 55-61.	2.2	41
69	Nanoporous Mn-based electrocatalysts through thermal conversion of cyano-bridged coordination polymers toward ultra-high efficiency hydrogen peroxide production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9266-9274.	5.2	51
70	Quantum Mechanical Screening of Single-Atom Bimetallic Alloys for the Selective Reduction of CO ₂ to C ₁ Hydrocarbons. <i>ACS Catalysis</i> , 2016, 6, 7769-7777.	5.5	190
71	Epitaxial Growth of Au-Pt-Ni Nanorods for Direct High Selectivity H ₂ O ₂ Production. <i>Advanced Materials</i> , 2016, 28, 9949-9955.	11.1	205
72	Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. <i>ACS Catalysis</i> , 2016, 6, 4720-4728.	5.5	513
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79	Simple wet-chemical synthesis of core-shell Au-Pd@Pd nanocrystals and their improved electrocatalytic activity for ethylene glycol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2547-2553.	3.8	60
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86	Einzelatom-Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2017, 129, 14132-14148.	1.6	99
87	Single-Atom Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13944-13960.	7.2	1,040
88	CO Oxidation on Metal Oxide Supported Single Pt atoms: The Role of the Support. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6916-6925.	1.8	94
89	Addressing stability challenges of using bimetallic electrocatalysts: the case of gold-palladium nanoalloys. <i>Catalysis Science and Technology</i> , 2017, 7, 1848-1856.	2.1	35
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94	DFT study reveals geometric and electronic synergisms of palladium-mercury alloy catalyst used for hydrogen peroxide formation. <i>Applied Catalysis A: General</i> , 2017, 547, 69-74.	2.2	16
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98	Goldâ€“Palladium Bimetallic Catalyst Stability: Consequences for Hydrogen Peroxide Selectivity. <i>ACS Catalysis</i> , 2017, 7, 5699-5705.	5.5	76
99	Atomically Precise Clusters of Noble Metals: Emerging Link between Atoms and Nanoparticles. <i>Chemical Reviews</i> , 2017, 117, 8208-8271.	23.0	1,694
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103	Efficient Electrochemical Hydrogen Peroxide Production from Molecular Oxygen on Nitrogen-Doped Mesoporous Carbon Catalysts. <i>ACS Catalysis</i> , 2018, 8, 2844-2856.	5.5	372
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118	Supported single-atom catalysts: synthesis, characterization, properties, and applications. Environmental Chemistry Letters, 2018, 16, 477-505.	8.3	96
119	Direct synthesis of H ₂ O ₂ on Pd and AuPd ₁ clusters: Understanding the effects of alloying Pd with Au. Journal of Catalysis, 2018, 357, 163-175.	3.1	106
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130	Colloidal Synthesis of Au@Pd Core-Shell Nanorods with Tunable Dimensions and Enhanced Electrocatalytic Activities. Topics in Catalysis, 2018, 61, 949-957.	1.3	3
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135	Structure, Activity, and Faradaic Efficiency of Nitrogen-Doped Porous Carbon Catalysts for Direct Electrochemical Hydrogen Peroxide Production. <i>ChemSusChem</i> , 2018, 11, 3388-3395.	3.6	148
136	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2018, 140, 7851-7859.	6.6	310
137	The Rise of Hydrogen Peroxide as the Main Product by Metal-Free Catalysis in Oxygen Reductions. <i>Advanced Materials</i> , 2019, 31, e1802920.	11.1	251
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139	High-efficiency electrogeneration of hydrogen peroxide from oxygen reduction by carbon xerogels derived from glucose. <i>Electrochimica Acta</i> , 2019, 320, 134569.	2.6	22
140	Carbon Black Oxidized by Air Calcination for Enhanced H_2O_2 Generation and Effective Organics Degradation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27846-27853.	4.0	106
141	Pyrolic-nitrogen-rich biomass-derived catalyst for sustainable degradation of organic pollutant via a self-powered electro-Fenton process. <i>Nano Energy</i> , 2019, 64, 103940.	8.2	62
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144	Direct electrosynthesis of pure aqueous H_2O_2 solutions up to 20% by weight using a solid electrolyte. <i>Science</i> , 2019, 366, 226-231.	6.0	573
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147	N-Doped Mesoporous Carbons: From Synthesis to Applications as Metal-Free Reduction Catalysts and Energy Storage Materials. <i>Frontiers in Chemistry</i> , 2019, 7, 761.	1.8	22
148	Highly selective oxygen reduction to hydrogen peroxide on transition metal single atom coordination. <i>Nature Communications</i> , 2019, 10, 3997.	5.8	528
149	Secondary phosphine oxides stabilized Au/Pd nanoalloys: metal components-controlled regioselective hydrogenation toward phosphinyl \rightarrow dendralenes. <i>Chemical Communications</i> , 2019, 55, 11699-11702.	2.2	5

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