

Mingshang Jin

List of Publications by Year in descending order

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70
papers

9,547
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66343

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times ranked

11423
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid/Liquid Interface-Assisted Synthesis of Two-Dimensional Metal Networks with High-Density Planar Defects for Electrocatalysis. <i>Chemistry of Materials</i> , 2022, 34, 3960-3966.	6.7	4
2	Hydrothermal synthesis of palladium nitrides as robust multifunctional electrocatalysts for fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6196-6204.	10.3	33
3	Recent advances in nonmetallic atom-doped metal nanocrystals: Synthesis and catalytic applications. <i>Chinese Chemical Letters</i> , 2021, 32, 2679-2692.	9.0	11
4	Deposition of Atomically Thin Pt Shells on Amorphous Palladium Phosphide Cores for Enhancing the Electrocatalytic Durability. <i>ACS Nano</i> , 2021, 15, 7348-7356.	14.6	53
5	General Synthesis of Amorphous PdM (M = Cu, Fe, Co, Ni) Alloy Nanowires for Boosting HCOOH Dehydrogenation. <i>Nano Letters</i> , 2021, 21, 3458-3464.	9.1	48
6	Peristalsis-like migration of carbon-metabolizing catalytic nanoparticles. <i>Extreme Mechanics Letters</i> , 2021, 49, 101463.	4.1	1
7	Mastering the surface strain of platinum catalysts for efficient electrocatalysis. <i>Nature</i> , 2021, 598, 76-81.	27.8	229
8	Lattice-mismatch-induced growth of ultrathin Pt shells with high-index facets for boosting oxygen reduction catalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16477-16486.	10.3	21
9	H ₂ -Induced coalescence of Pt nanoparticles for the preparation of ultrathin Pt nanowires with high-density planar defects. <i>Nanoscale</i> , 2019, 11, 14828-14835.	5.6	24
10	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. <i>Nano Letters</i> , 2019, 19, 6363-6369.	9.1	19
11	Phosphorization Treatment Improves the Catalytic Activity and Durability of Platinum Catalysts toward Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2019, 31, 8205-8211.	6.7	24
12	Pd _x nanocrystals with tunable compositions for alkyne semihydrogenation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4714-4720.	10.3	45
13	Engineering Surface Structure of Pt Nanoshells on Pd Nanocubes to Preferentially Expose Active Surfaces for ORR by Manipulating the Growth Kinetics. <i>Nano Letters</i> , 2019, 19, 1743-1748.	9.1	67
14	Construction of Pd-M (M = Ni, Ag, Cu) alloy surfaces for catalytic applications. <i>Nano Research</i> , 2018, 11, 780-790.	10.4	61
15	An etching-assisted route for fast and large-scale fabrication of non-layered palladium nanosheets. <i>Nanoscale</i> , 2018, 10, 7505-7510.	5.6	16
16	Construction of Au@Pd alloy shells for enhanced catalytic performance toward alkyne semihydrogenation reactions. <i>Materials Horizons</i> , 2017, 4, 584-590.	12.2	40
17	Construction of light-harvesting system for enhanced catalytic performance of Pd nanoframes toward Suzuki coupling reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10150-10153.	10.3	10
18	Synthesis of Pd Nanoframes by Excavating Solid Nanocrystals for Enhanced Catalytic Properties. <i>ACS Nano</i> , 2017, 11, 163-170.	14.6	71

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19	Inflating hollow nanocrystals through a repeated Kirkendall cavitation process. <i>Nature Communications</i> , 2017, 8, 1261.	12.8	135
20	Coordination effect assisted synthesis of ultrathin Pt layers on second metal nanocrystals as efficient oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13033-13039.	10.3	31
21	Creation of Controllable High-Density Defects in Silver Nanowires for Enhanced Catalytic Property. <i>Nano Letters</i> , 2016, 16, 5669-5674.	9.1	61
22	Facile preparation of hybrid anatase/rutile TiO ₂ nanorods with exposed (010) facets for lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2016, 171, 11-15.	4.0	19
23	Selectivity on Etching: Creation of High-Energy Facets on Copper Nanocrystals for CO ₂ Electrochemical Reduction. <i>ACS Nano</i> , 2016, 10, 4559-4564.	14.6	207
24	Fabrication of Cu@M _x O _y (M = Cu, Mn, Co, Fe) Nanocable Arrays for Lithium-Ion Batteries with Long Cycle Lives and High Rate Capabilities. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1083-1091.	2.3	4
25	Shape-Dependence of Pd Nanocrystal Carburation during Acetylene Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1101-1107.	3.1	38
26	Lattice-Mismatch-Induced Twinning for Seeded Growth of Anisotropic Nanostructures. <i>ACS Nano</i> , 2015, 9, 3307-3313.	14.6	86
27	Redox reaction induced Ostwald ripening for size- and shape-focusing of palladium nanocrystals. <i>Chemical Science</i> , 2015, 6, 5197-5203.	7.4	69
28	Bimetallic Nanocrystals: Growth Models and Controlled Synthesis. , 2015, , 75-105.		0
29	Size and Shape-Controlled Pd Nanocrystals on ZnO and SiO ₂ : When the Nature of the Support Determines the Active Phase. <i>ChemCatChem</i> , 2014, 6, 767-771.	3.7	18
30	Monitoring the shape evolution of Pd nanocubes to octahedra by PdS frame markers. <i>Nanoscale</i> , 2014, 6, 3518-3521.	5.6	8
31	Thermodynamic controlled synthesis of intermetallic Au ₃ Cu alloy nanocrystals from Cu microparticles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 902-906.	10.3	77
32	Facile synthesis of Pd-Pt alloy concave nanocubes with high-index facets as electrocatalysts for methanol oxidation. <i>CrystEngComm</i> , 2014, 16, 2411-2416.	2.6	69
33	Droplet-Based Microreactors for Continuous Production of Palladium Nanocrystals with Controlled Sizes and Shapes. <i>Small</i> , 2013, 9, 3462-3467.	10.0	77
34	Templated high-yield synthesis of Pt nanorods enclosed by high-index {311} facets for methanol selective oxidation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7316.	10.3	32
35	Shape-Controlled Synthesis of Pd Nanocrystals and Their Catalytic Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 1783-1794.	15.6	568
36	Enhancing the Photocatalytic Activity of Anatase TiO ₂ by Improving the Specific Facet-Induced Spontaneous Separation of Photogenerated Electrons and Holes. <i>Chemistry - an Asian Journal</i> , 2013, 8, 282-289.	3.3	115

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37	Seed-Mediated Synthesis of Single-Crystal Gold Nanospheres with Controlled Diameters in the Range 5–30 nm and their Self-Assembly upon Dilution. <i>Chemistry - an Asian Journal</i> , 2013, 8, 792-799.	3.3	72
38	A dispersive scattering centers-based strategy for dramatically enhancing the photocatalytic efficiency of photocatalysts in liquid-phase photochemical processes: a case of Ag nanosheets. <i>Nanoscale</i> , 2013, 5, 1793.	5.6	1
39	Fabrication of SBA-15 supported Ag@Au-Ag metal-core/alloy-shell nanoparticles for CO oxidation. <i>CrystEngComm</i> , 2013, 15, 2804.	2.6	15
40	Synthesis of Rhodium Concave Tetrahedrons by Collectively Manipulating the Reduction Kinetics, Facet-Selective Capping, and Surface Diffusion. <i>Nano Letters</i> , 2013, 13, 6262-6268.	9.1	66
41	Low-Temperature Carbon Monoxide Oxidation with Au-Cu Meatball-Like Cages Prepared by Galvanic Replacement. <i>ChemSusChem</i> , 2013, 6, 1883-1887.	6.8	16
42	Synthesis and Characterization of Pd _M Cu _{1-x} (M=Au, Pd, and Tj) Core/Shell Reactions. <i>Chemistry - A European Journal</i> , 2012, 18, 14974-14980.	3.3	62
43	Copper Can Still Be Epitaxially Deposited on Palladium Nanocrystals To Generate Core-Shell Nanocubes Despite Their Large Lattice Mismatch. <i>ACS Nano</i> , 2012, 6, 2566-2573.	14.6	139
44	Enhancing the catalytic and electrocatalytic properties of Pt-based catalysts by forming bimetallic nanocrystals with Pd. <i>Chemical Society Reviews</i> , 2012, 41, 8035.	38.1	481
45	Palladium nanocrystals enclosed by {100} and {111} facets in controlled proportions and their catalytic activities for formic acid oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 6352-6357.	30.8	358
46	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (<i>Angew. Chem.</i> 10/2012). <i>Angewandte Chemie</i> , 2012, 124, 2562-2562.	2.0	0
47	Innentitelbild: Edelmetall-Nanokristalle mit konkaven Oberflächen: Synthese und Anwendungen (<i>Angew. Chem.</i> 31/2012). <i>Angewandte Chemie</i> , 2012, 124, 7722-7722.	2.0	0
48	Noble-Metal Nanocrystals with Concave Surfaces: Synthesis and Applications. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7656-7673.	13.8	411
49	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. <i>ChemCatChem</i> , 2012, 4, 1668-1674.	3.7	28
50	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2354-2358.	13.8	209
51	Back Cover: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (<i>Angew. Chem. Int. Ed.</i> 10/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2512-2512.	13.8	0
52	Progresses on syntheses of the noble-metal nanocrystals with exposed high-index facets. <i>Scientia Sinica Chimica</i> , 2012, 42, 1513-1524.	0.4	3
53	Facile syntheses and electrocatalytic properties of porous Pd and its alloy nanospheres. <i>Journal of Materials Chemistry</i> , 2011, 21, 9620.	6.7	62
54	Controlling the Morphology of Rhodium Nanocrystals by Manipulating the Growth Kinetics with a Syringe Pump. <i>Nano Letters</i> , 2011, 11, 898-903.	9.1	190

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55	Structural dependence of oxygen reduction reaction on palladium nanocrystals. <i>Chemical Communications</i> , 2011, 47, 6566.	4.1	264
56	Structure Sensitivity of Alkynol Hydrogenation on Shape- and Size-Controlled Palladium Nanocrystals: Which Sites Are Most Active and Selective?. <i>Journal of the American Chemical Society</i> , 2011, 133, 12787-12794.	13.7	379
57	Facile Synthesis of Pd-Pt Alloy Nanocages and Their Enhanced Performance for Preferential Oxidation of CO in Excess Hydrogen. <i>ACS Nano</i> , 2011, 5, 8212-8222.	14.6	236
58	Synthesis of Pd-Pt Bimetallic Nanocrystals with a Concave Structure through a Bromide-Induced Galvanic Replacement Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 6078-6089.	13.7	405
59	Nanocrystals Composed of Alternating Shells of Pd and Pt Can Be Obtained by Sequentially Adding Different Precursors. <i>Journal of the American Chemical Society</i> , 2011, 133, 10422-10425.	13.7	115
60	Synthesis of Pd nanocrystals enclosed by {100} facets and with sizes <10 nm for application in CO oxidation. <i>Nano Research</i> , 2011, 4, 83-91.	10.4	436
61	Palladium Concave Nanocubes with High-Index Facets and Their Enhanced Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7850-7854.	13.8	379
62	Shape-Controlled Synthesis of Copper Nanocrystals in an Aqueous Solution with Glucose as a Reducing Agent and Hexadecylamine as a Capping Agent. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10560-10564.	13.8	410
63	Liquid-liquid interface assisted synthesis of size- and thickness-controlled Ag nanoplates. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1354-1358.	2.9	9
64	Synthesis of Tin Dioxide Octahedral Nanoparticles with Exposed High-Energy {221} Facets and Enhanced Gas-Sensing Properties. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9180-9183.	13.8	405
65	Single-crystal-like hematite colloidal nanocrystal clusters: synthesis and applications in gas sensors, photocatalysis and water treatment. <i>Journal of Materials Chemistry</i> , 2009, 19, 6154.	6.7	139
66	Directional Etching Formation of Single-Crystalline Branched Nanostructures: A Case of Six-Horn-like Manganese Oxide. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2867-2872.	3.1	12
67	Supercrystals from Crystallization of Octahedral MnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19107-19111.	3.1	48
68	Synthesis of Titania Nanosheets with a High Percentage of Exposed (001) Facets and Related Photocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2009, 131, 3152-3153.	13.7	1,511
69	Direct synthesis of silver/polymer/carbon nanocables via a simple hydrothermal route. <i>Journal of Solid State Chemistry</i> , 2008, 181, 2359-2363.	2.9	20
70	Tensions at Liquid Interfaces: A General Filter for the Separation of Micro-/Nanoparticles. <i>Langmuir</i> , 2008, 24, 2281-2283.	3.5	5