Shuifen Xie

List of Publications by Year
in descending order

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62 papers	5,702 citations	100601 38 h-index	134545 62 g-index
67 all docs	67 docs citations	67 times ranked	8043 citing authors

#	Article	IF	Citations
1	Penta-Twinned Rh@Pt Core-Shell nanobranches with engineered shell thickness for reversible and active hydrogen redox electrocatalysis. Chemical Engineering Journal, 2022, 429, 132414.	6.6	19
2	Edge-segregated ternary Pdâ€“Ptâ€“Ni spiral nanosheets as high-performance bifunctional oxygen redox electrocatalysts for rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2022, 10, 3808-3817.	5.2	17
3	Equilibrated PtIr/IrO_x Atomic Heterojunctions on Ultrafine 1D Nanowires Enable Superior Dualâ€Electrocatalysis for Overall Water Splitting. Small, 2022, 18, e2201333.	5.2	21
4	Two-Dimensionally Assembled Pdâ€“Ptâ€“Ir Supernanosheets with Subnanometer Interlayer Spacings toward High-Efficiency and Durable Water Splitting. ACS Catalysis, 2022, 12, 5305-5315.	5.5	26
5	In situ surface-doped PtNiCoRh nanocrystals promote electrooxidation of C1 fuels. Science China Materials, 2021, 64, 1139-1149.	3.5	7
6	Structure-intensified PtCoRh spiral nanowires as highly active and durable electrocatalysts for methanol oxidation. Nanoscale, 2021, 13, 2632-2638.	2.8	12
7	Concave nano-octahedral alloys: wet chemical synthesis of bimetallic Ptâ€“Pd nanocrystals with high-index {hhl} Facets. Dalton Transactions, 2021, 50, 12083-12087.	1.6	6
8	Amplified Interfacial Effect in an Atomically Dispersed RuO_xâ€onâ€Pd 2D Inverse Nanocatalyst for Highâ€Performance Oxygen Reduction. Angewandte Chemie, 2021, 133, 16229-16236.	1.6	12
9	Amplified Interfacial Effect in an Atomically Dispersed RuO_xâ€onâ€Pd 2D Inverse Nanocatalyst for Highâ€Performance Oxygen Reduction. Angewandte Chemie - International Edition, 2021, 60, 16093-16100.	7.2	49
10	In Situ Spectroscopic Diagnosis of CO₂ Reduction at the Pt Electrode/Pyridine-Containing Electrolyte Interface. ACS Catalysis, 2021, 11, 10836-10846.	5.5	7
11	Ultrasmall PdPtCo trimetallic nanorings with enriched low-coordinated edge sites and optimized compositions for effective oxygen reduction electrocatalysis. CrystEngComm, 2021, 23, 5033-5038.	1.3	6
12	Kinetically Manipulating the Nucleus Attachment to Create Atypical Defective Rhâ€'Pt Alloyed Nanostructures as Active Electrocatalysts. Chemistry - an Asian Journal, 2020, 15, 3356-3364.	1.7	3
13	Edge Enrichment of Ultrathin 2D PdPtCu Trimetallic Nanostructures Effectuates Top-Ranked Ethanol Electrooxidation. Nano Letters, 2020, 20, 5458-5464.	4.5	90
14	Quatermetallic Pt-based ultrathin nanowires intensified by Rh enable highly active and robust electrocatalysts for methanol oxidation. Nano Energy, 2020, 71, 104623.	8.2	64
15	Facilitating the Câ€“C bond cleavage on sub-10 nm concavity-tunable Rh@Pt coreâ€“shell nanocubes for efficient ethanol electrooxidation. Journal of Materials Chemistry A, 2019, 7, 17987-17994.	5.2	36
16	Composition optimized trimetallic PtNiRu dendritic nanostructures as versatile and active electrocatalysts for alcohol oxidation. Nano Research, 2019, 12, 651-657.	5.8	49
17	Replicating the Defect Structures on Ultrathin Rh Nanowires with Pt to Achieve Superior Electrocatalytic Activity toward Ethanol Oxidation. Advanced Functional Materials, 2019, 29, 1806300.	7.8	97
18	One-pot synthesis of Pd@Pt₃Ni coreâ€“shell nanobranches with ultrathin Pt₃Ni{111} skins for efficient ethanol electrooxidation. Chemical Communications, 2018, 54, 5185-5188.	2.2	32

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19	Shapeâ€Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. Advanced Materials, 2018, 30, e1706312.	11.1	114
20	Ligand-Assisted, One-Pot Synthesis of Rh-on-Cu Nanoscale Sea Urchins with High-Density Interfaces for Boosting CO Oxidation. Nano Letters, 2017, 17, 7613-7619.	4.5	32
21	Well-faceted noble-metal nanocrystals with nonconvex polyhedral shapes. Chemical Society Reviews, 2016, 45, 3207-3220.	18.7	111
22	Defectâ€Rich Metal Nanocrystals in Catalysis. ChemCatChem, 2016, 8, 480-485.	1.8	33
23	Aberration-Corrected STEM and Tomography of Pd-Pt Nanoparticles: Core-Shell Cubic and Core-Frame Concave Structures. Microscopy and Microanalysis, 2015, 21, 1731-1732.	0.2	0
24	Rational design and synthesis of excavated trioctahedral Au nanocrystals. Nanoscale, 2015, 7, 10728-10734.	2.8	14
25	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. Nano Research, 2015, 8, 82-96.	5.8	84
26	Atomic Layer-by-Layer Deposition of Platinum on Palladium Octahedra for Enhanced Catalysts toward the Oxygen Reduction Reaction. ACS Nano, 2015, 9, 2635-2647.	7.3	209
27	Pdâ€“Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 7520-7529.	7.8	134
28	Controlling the Size and Composition of Nanosized Ptâ€“Ni Octahedra to Optimize Their Catalytic Activities toward the Oxygen Reduction Reaction. ChemSusChem, 2014, 7, 1476-1483.	3.6	72
29	Atomic Layer-by-Layer Deposition of Pt on Pd Nanocubes for Catalysts with Enhanced Activity and Durability toward Oxygen Reduction. Nano Letters, 2014, 14, 3570-3576.	4.5	448
30	Polyol Synthesis of Ultrathin Pd Nanowires via Attachmentâ€Based Growth and Their Enhanced Activity towards Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 131-139.	7.8	173
31	Aberration Corrected Electron Microscopy Study of Bimetallic Pdâ€“Pt Nanocrystal: Coreâ€“Shell Cubic and Coreâ€“Frame Concave Structures. Journal of Physical Chemistry C, 2014, 118, 28876-28882.	1.5	26
32	Organicâ€“Inorganic Interfaceâ€Induced Multiâ€Fluorescence of MgO Nanocrystal Clusters and Their Applications in Cellular Imaging. Chemistry - A European Journal, 2014, 20, 5244-5252.	1.7	15
33	In-Situ Studies of Thermal Stability of Coreâ€“Frame Cubic Pdâ€“Rh Nanocrystals at Elevated Temperatures. Microscopy and Microanalysis, 2014, 20, 1632-1633.	0.2	0
34	Citrate-Free Synthesis of Silver Nanoplates and the Mechanistic Study. ACS Applied Materials & Interfaces, 2013, 5, 6333-6345.	4.0	51
35	Confining the Nucleation and Overgrowth of Rh to the {111} Facets of Pd Nanocrystal Seeds: The Roles of Capping Agent and Surface Diffusion. Journal of the American Chemical Society, 2013, 135, 16658-16667.	6.6	73
36	Facile synthesis of Pdâ€“Ir bimetallic octapods and nanocages through galvanic replacement and co-reduction, and their use for hydrazine decomposition. Physical Chemistry Chemical Physics, 2013, 15, 11822.	1.3	42

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37	Enhanced shape stability of Pdâ€“Rh coreâ€“frame nanocubes at elevated temperature: in situ heating transmission electron microscopy. Chemical Communications, 2013, 49, 11806.	2.2	33
38	Enhancing the Photocatalytic Activity of Anatase TiO₂ by Improving the Specific Facetâ€Induced Spontaneous Separation of Photogenerated Electrons and Holes. Chemistry - an Asian Journal, 2013, 8, 282-289.	1.7	115
39	Quantitative Analysis of the Coverage Density of Br^{â€“} Ions on Pd{100} Facets and Its Role in Controlling the Shape of Pd Nanocrystals. Journal of the American Chemical Society, 2013, 135, 3780-3783.	6.6	156
40	Shape-controlled synthesis of metal nanocrystals. MRS Bulletin, 2013, 38, 335-344.	1.7	111
41	Synthesis of Silver Octahedra with Controlled Sizes and Optical Properties via Seed-Mediated Growth. ACS Nano, 2013, 7, 4586-4594.	7.3	159
42	Catalysis on faceted noble-metal nanocrystals: both shape and size matter. Current Opinion in Chemical Engineering, 2013, 2, 142-150.	3.8	115
43	Synthesis and Characterization of 9 nm Ptâ€“Ni Octahedra with a Record High Activity of 3.3 A/mg_{Pt} for the Oxygen Reduction Reaction. Nano Letters, 2013, 13, 3420-3425.	4.5	542
44	Shape-Controlled Synthesis of Palladium Nanocrystals: A Mechanistic Understanding of the Evolution from Octahedrons to Tetrahedrons. Nano Letters, 2013, 13, 2276-2281.	4.5	117
45	Synthesis of Rhodium Concave Tetrahedrons by Collectively Manipulating the Reduction Kinetics, Facet-Selective Capping, and Surface Diffusion. Nano Letters, 2013, 13, 6262-6268.	4.5	66
46	Engineering surface of anatase TiO2 nanocrystals toward enhanced catalytic activity in photochemistry. , 2013, , .		0
47	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6669-6673.	3.3	339
48	Synthesis and Characterization of Pd@M_xCu_{1â^'x} (M=Au, Pd, and) Tj ETQq0 0 0 rgBT /Overlock Reactions. Chemistry - A European Journal, 2012, 18, 14974-14980.	1.7	62
49	Carbonate ions-assisted syntheses of anatase TiO2 nanoparticles exposed with high energy (001) facets. RSC Advances, 2012, 2, 3251.	1.7	80
50	Synthesis of Pdâ€Rh Coreâ€“Frame Concave Nanocubes and Their Conversion to Rh Cubic Nanoframes by Selective Etching of the Pd Cores. Angewandte Chemie - International Edition, 2012, 51, 10266-10270.	7.2	226
51	Synthesis of layered protonated titanate hierarchical microspheres with extremely large surface area for selective adsorption of organic dyes. CrystEngComm, 2012, 14, 7715.	1.3	42
52	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with {hkk} high-index surfaces. Nano Research, 2012, 5, 181-189.	5.8	92
53	Controlled Synthesis and Enhanced Catalytic and Gasâ€Sensing Properties of Tin Dioxide Nanoparticles with Exposed Highâ€Energy Facets. Chemistry - A European Journal, 2012, 18, 2283-2289.	1.7	103
54	Facile syntheses and electrocatalytic properties of porous Pd and its alloy nanospheres. Journal of Materials Chemistry, 2011, 21, 9620.	6.7	62

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55	Intense and wavelength-tunable photoluminescence from surface functionalized MgO nanocrystal clusters. Journal of Materials Chemistry, 2011, 21, 7263.	6.7	36
56	Solid state precursor strategy for synthesizing hollow TiO2 boxes with a high percentage of reactive {001} facets exposed. Chemical Communications, 2011, 47, 6722.	2.2	93
57	Cu²⁺-Assisted Synthesis of Hexoctahedral Auâ€“Pd Alloy Nanocrystals with High-Index Facets. Journal of the American Chemical Society, 2011, 133, 17114-17117.	6.6	229
58	Synthesis of Concave Palladium Nanocubes with Highâ€index Surfaces and High Electrocatalytic Activities. Chemistry - A European Journal, 2011, 17, 9915-9919.	1.7	98
59	Liquidâ€“liquid interface assisted synthesis of size- and thickness-controlled Ag nanoplates. Journal of Solid State Chemistry, 2010, 183, 1354-1358.	1.4	9
60	Control of the Surface of ZnO Nanostructures by Selective Wet-Chemical Etching. Journal of Physical Chemistry C, 2010, 114, 10114-10118.	1.5	37
61	Synthesis of Tin Dioxide Octahedral Nanoparticles with Exposed Highâ€Energy {221} Facets and Enhanced Gasâ€Sensing Properties. Angewandte Chemie - International Edition, 2009, 48, 9180-9183.	7.2	405
62	Supercrystals from Crystallization of Octahedral MnO Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 19107-19111.	1.5	48