

# Shuifen Xie

## List of Publications by Year in Descending Order

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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.

62

papers

4,793

citations

36

h-index

67

g-index

67

ext. papers

5,271

ext. citations

9.8

avg, IF

5.39

L-index

#	Paper	IF	Citations
62	Penta-Twinned Rh@Pt Core-Shell nanobranches with engineered shell thickness for reversible and active hydrogen redox electrocatalysis. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132414	14.7	3
61	Equilibrated PtIr/IrO Atomic Heterojunctions on Ultrafine 1D Nanowires Enable Superior Dual-Electrocatalysis for Overall Water Splitting.. <i>Small</i> , <b>2022</b> , e2201333	11	4
60	Amplified Interfacial Effect in an Atomically Dispersed RuOx-on-Pd 2D Inverse Nanocatalyst for High-Performance Oxygen Reduction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16229-16236	3.6	3
59	Amplified Interfacial Effect in an Atomically Dispersed RuO <sub>x</sub> -on-Pd 2D Inverse Nanocatalyst for High-Performance Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16093-16100	16.4	16
58	In situ surface-doped PtNiCoRh nanocrystals promote electrooxidation of C1 fuels. <i>Science China Materials</i> , <b>2021</b> , 64, 1139-1149	7.1	4
57	Structure-intensified PtCoRh spiral nanowires as highly active and durable electrocatalysts for methanol oxidation. <i>Nanoscale</i> , <b>2021</b> , 13, 2632-2638	7.7	3
56	Concave nano-octahedral alloys: wet chemical synthesis of bimetallic Pt-Pd nanocrystals with high-index {111} Facets. <i>Dalton Transactions</i> , <b>2021</b> , 50, 12083-12087	4.3	1
55	In Situ Spectroscopic Diagnosis of CO <sub>2</sub> Reduction at the Pt Electrode/Pyridine-Containing Electrolyte Interface. <i>ACS Catalysis</i> , <b>2021</b> , 11, 10836-10846	13.1	1
54	Ultrasmall PdPtCo trimetallic nanorings with enriched low-coordinated edge sites and optimized compositions for effective oxygen reduction electrocatalysis. <i>CrystEngComm</i> , <b>2021</b> , 23, 5033-5038	3.3	2
53	Edge Enrichment of Ultrathin 2D PdPtCu Trimetallic Nanostructures Effectuates Top-Ranked Ethanol Electrooxidation. <i>Nano Letters</i> , <b>2020</b> , 20, 5458-5464	11.5	38
52	Quatermetallic Pt-based ultrathin nanowires intensified by Rh enable highly active and robust electrocatalysts for methanol oxidation. <i>Nano Energy</i> , <b>2020</b> , 71, 104623	17.1	37
51	Kinetically Manipulating the Nucleus Attachment to Create Atypical Defective Rh-Pt Alloyed Nanostructures as Active Electrocatalysts. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 3356-3364	4.5	1
50	Facilitating the C-C bond cleavage on sub-10 nm concavity-tunable Rh@Pt core-shell nanocubes for efficient ethanol electrooxidation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17987-17994	13	19
49	Composition optimized trimetallic PtNiRu dendritic nanostructures as versatile and active electrocatalysts for alcohol oxidation. <i>Nano Research</i> , <b>2019</b> , 12, 651-657	10	33
48	Replicating the Defect Structures on Ultrathin Rh Nanowires with Pt to Achieve Superior Electrocatalytic Activity toward Ethanol Oxidation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806300	15.6	57
47	One-pot synthesis of Pd@PtNi core-shell nanobranches with ultrathin PtNi{111} skins for efficient ethanol electrooxidation. <i>Chemical Communications</i> , <b>2018</b> , 54, 5185-5188	5.8	27
46	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706312	24	90

45	Ligand-Assisted, One-Pot Synthesis of Rh-on-Cu Nanoscale Sea Urchins with High-Density Interfaces for Boosting CO Oxidation. <i>Nano Letters</i> , <b>2017</b> , 17, 7613-7619	11.5	24
44	Defect-Rich Metal Nanocrystals in Catalysis. <i>ChemCatChem</i> , <b>2016</b> , 8, 480-485	5.2	29
43	Well-faceted noble-metal nanocrystals with nonconvex polyhedral shapes. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3207-20	58.5	91
42	Aberration-Corrected STEM and Tomography of Pd-Pt Nanoparticles: Core-Shell Cubic and Core-Frame Concave Structures. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1731-1732	0.5	
41	Rational design and synthesis of excavated trioctahedral Au nanocrystals. <i>Nanoscale</i> , <b>2015</b> , 7, 10728-34	7.7	13
40	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. <i>Nano Research</i> , <b>2015</b> , 8, 82-96	10	77
39	Atomic layer-by-layer deposition of platinum on palladium octahedra for enhanced catalysts toward the oxygen reduction reaction. <i>ACS Nano</i> , <b>2015</b> , 9, 2635-47	16.7	180
38	Controlling the size and composition of nanosized Pt-Ni octahedra to optimize their catalytic activities toward the oxygen reduction reaction. <i>ChemSusChem</i> , <b>2014</b> , 7, 1476-83	8.3	67
37	Atomic layer-by-layer deposition of Pt on Pd nanocubes for catalysts with enhanced activity and durability toward oxygen reduction. <i>Nano Letters</i> , <b>2014</b> , 14, 3570-6	11.5	380
36	Polyol Synthesis of Ultrathin Pd Nanowires via Attachment-Based Growth and Their Enhanced Activity towards Formic Acid Oxidation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 131-139	15.6	158
35	Aberration Corrected Electron Microscopy Study of Bimetallic PdPt Nanocrystal: CoreShell Cubic and CoreFrame Concave Structures. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28876-28882	3.8	24
34	Organic-inorganic interface-induced multi-fluorescence of MgO nanocrystal clusters and their applications in cellular imaging. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 5244-52	4.8	11
33	In-Situ Studies of Thermal Stability of CoreFrame Cubic PdRh Nanocrystals at Elevated Temperatures. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1632-1633	0.5	
32	PdCu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7520-7529	15.6	118
31	Citrate-free synthesis of silver nanoplates and the mechanistic study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6333-45	9.5	46
30	Confining the nucleation and overgrowth of Rh to the {111} facets of Pd nanocrystal seeds: the roles of capping agent and surface diffusion. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16658-67	16.4	60
29	Facile synthesis of Pd-Ir bimetallic octapods and nanocages through galvanic replacement and co-reduction, and their use for hydrazine decomposition. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11822-9	3.6	40
28	Enhanced shape stability of Pd-Rh core-frame nanocubes at elevated temperature: in situ heating transmission electron microscopy. <i>Chemical Communications</i> , <b>2013</b> , 49, 11806-8	5.8	28

27	Enhancing the photocatalytic activity of anatase TiO <sub>2</sub> by improving the specific facet-induced spontaneous separation of photogenerated electrons and holes. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 282-9	4.5	113
26	Quantitative analysis of the coverage density of Br <sup>-</sup> ions on Pd{100} facets and its role in controlling the shape of Pd nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3780-3	16.4	132
25	Shape-controlled synthesis of metal nanocrystals. <i>MRS Bulletin</i> , <b>2013</b> , 38, 335-344	3.2	99
24	Synthesis of silver octahedra with controlled sizes and optical properties via seed-mediated growth. <i>ACS Nano</i> , <b>2013</b> , 7, 4586-94	16.7	133
23	Catalysis on faceted noble-metal nanocrystals: both shape and size matter. <i>Current Opinion in Chemical Engineering</i> , <b>2013</b> , 2, 142-150	5.4	96
22	Synthesis and characterization of 9 nm Pt-Ni octahedra with a record high activity of 3.3 A/mg(Pt) for the oxygen reduction reaction. <i>Nano Letters</i> , <b>2013</b> , 13, 3420-5	11.5	475
21	Shape-controlled synthesis of palladium nanocrystals: a mechanistic understanding of the evolution from octahedrons to tetrahedrons. <i>Nano Letters</i> , <b>2013</b> , 13, 2276-81	11.5	95
20	Synthesis of rhodium concave tetrahedrons by collectively manipulating the reduction kinetics, facet-selective capping, and surface diffusion. <i>Nano Letters</i> , <b>2013</b> , 13, 6262-8	11.5	57
19	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6669-73	11.5	285
18	Controlled synthesis and enhanced catalytic and gas-sensing properties of tin dioxide nanoparticles with exposed high-energy facets. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2283-9	4.8	91
17	Synthesis and characterization of Pd@M(x)Cu(1-x) (M = Au, Pd, and Pt) nanocages with porous walls and a yolk-shell structure through galvanic replacement reactions. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 14974-80	4.8	55
16	Carbonate ions-assisted syntheses of anatase TiO <sub>2</sub> nanoparticles exposed with high energy (001) facets. <i>RSC Advances</i> , <b>2012</b> , 2, 3251	3.7	74
15	Synthesis of Pd-Rh Core-Frame Concave Nanocubes and Their Conversion to Rh Cubic Nanoframes by Selective Etching of the Pd Cores. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 10412-10416	3.6	31
14	Synthesis of Pd-Rh core-frame concave nanocubes and their conversion to Rh cubic nanoframes by selective etching of the Pd cores. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10266-70	16.4	203
13	Synthesis of layered protonated titanate hierarchical microspheres with extremely large surface area for selective adsorption of organic dyes. <i>CrystEngComm</i> , <b>2012</b> , 14, 7715	3.3	39
12	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with {hkk} high-index surfaces. <i>Nano Research</i> , <b>2012</b> , 5, 181-189	10	87
11	Intense and wavelength-tunable photoluminescence from surface functionalized MgO nanocrystal clusters. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7263		33
10	Solid state precursor strategy for synthesizing hollow TiO <sub>2</sub> boxes with a high percentage of reactive {001} facets exposed. <i>Chemical Communications</i> , <b>2011</b> , 47, 6722-4	5.8	87

9	Cu(2+)-assisted synthesis of hexoctahedral Au-Pd alloy nanocrystals with high-index facets. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17114-7	16.4	214
8	Synthesis of concave palladium nanocubes with high-index surfaces and high electrocatalytic activities. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 9915-9	4.8	89
7	Facile syntheses and electrocatalytic properties of porous Pd and its alloy nanospheres. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9620		59
6	Control of the Surface of ZnO Nanostructures by Selective Wet-Chemical Etching. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 10114-10118	3.8	33
5	Liquid-liquid interface assisted synthesis of size- and thickness-controlled Ag nanoplates. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 1354-1358	3.3	9
4	Synthesis of Tin Dioxide Octahedral Nanoparticles with Exposed High-Energy {221} Facets and Enhanced Gas-Sensing Properties. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 9344-9347	3.6	103
3	Synthesis of tin dioxide octahedral nanoparticles with exposed high-energy {221} facets and enhanced gas-sensing properties. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9180-3	16.4	365
2	Supercrystals from Crystallization of Octahedral MnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19107-19111	3.8	45
1	Two-Dimensionally Assembled PdPt <sub>2</sub> Supernanosheets with Subnanometer Interlayer Spacings toward High-Efficiency and Durable Water Splitting. <i>ACS Catalysis</i> , 5305-5315	13.1	4