

# Xuan Yang

## List of Publications by Citations

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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.

82

papers

4,963

citations

36

h-index

70

g-index

89

ext. papers

5,835

ext. citations

10

avg, IF

5.94

L-index

#	Paper	IF	Citations
82	Gold Nanomaterials at Work in Biomedicine. <i>Chemical Reviews</i> , <b>2015</b> , 115, 10410-88	68.1	818
81	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. <i>Nature Chemistry</i> , <b>2019</b> , 11, 222-228	17.6	337
80	Mechanistic Insights into Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13387-13391	16.4	300
79	Stable Cu nanoclusters: from an aggregation-induced emission mechanism to biosensing and catalytic applications. <i>Chemical Communications</i> , <b>2014</b> , 50, 237-9	5.8	266
78	DNA-hosted copper nanoclusters for fluorescent identification of single nucleotide polymorphisms. <i>ACS Nano</i> , <b>2012</b> , 6, 3311-7	16.7	230
77	Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. <i>Nano Letters</i> , <b>2016</b> , 16, 1467-71	11.5	197
76	Synthesis and Characterization of Pt-Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. <i>Nano Letters</i> , <b>2016</b> , 16, 6644-6649	11.5	132
75	A nanoparticle autocatalytic sensor for Ag <sup>+</sup> and Cu <sup>2+</sup> ions in aqueous solution with high sensitivity and selectivity and its application in test paper. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5005-11	7.8	121
74	Circular RNA circTRIM33-12 acts as the sponge of MicroRNA-191 to suppress hepatocellular carcinoma progression. <i>Molecular Cancer</i> , <b>2019</b> , 18, 105	42.1	118
73	Double Detection of Mycotoxins Based on SERS Labels Embedded Ag@Au Core-Shell Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21780-6	9.5	117
72	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. <i>ACS Nano</i> , <b>2016</b> , 10, 9861-9870	16.7	112
71	Examination of Near-Electrode Concentration Gradients and Kinetic Impacts on the Electrochemical Reduction of CO <sub>2</sub> using Surface-Enhanced Infrared Spectroscopy. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3999-4008	13.1	96
70	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
69	Solid-state label-free integrated aptasensor based on graphene-mesoporous silica-gold nanoparticle hybrids and silver microspheres. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8035-40	7.8	86
68	Lu-Doped PdCu@Au Tripods: A Multifunctional Nanomaterial for Positron Emission Tomography and Image-Guided Photothermal Cancer Treatment. <i>ACS Nano</i> , <b>2016</b> , 10, 3121-31	16.7	85
67	Synthesis and Characterization of Ru Cubic Nanocages with a Face-Centered Cubic Structure by Templating with Pd Nanocubes. <i>Nano Letters</i> , <b>2016</b> , 16, 5310-7	11.5	84
66	Potassium-sensitive G-quadruplex DNA for sensitive visible potassium detection. <i>Analyst</i> , <b>2010</b> , 135, 71-5	5	74

65	Symmetry breaking during nanocrystal growth. <i>Chemical Communications</i> , <b>2017</b> , 53, 4530-4541	5.8	71
64	Speciation of Cu Surfaces During the Electrochemical CO Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9735-9743	16.4	70
63	Synthesis of Pt-Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. <i>Nano Letters</i> , <b>2016</b> , 16, 3850-7	11.5	70
62	Electrochemical Nitrogen Reduction Reaction on Noble Metal Catalysts in Proton and Hydroxide Exchange Membrane Electrolyzers. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, F1712-F1716	3.9	65
61	A label-free fluorescent molecular beacon based on DNA-Ag nanoclusters for the construction of versatile Biosensors. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 318-21	11.8	62
60	Circular RNA circMET drives immunosuppression and anti-PD1 therapy resistance in hepatocellular carcinoma via the miR-30-5p/snail/DPP4 axis. <i>Molecular Cancer</i> , <b>2020</b> , 19, 92	42.1	62
59	Toward Cost-Effective and Sustainable Use of Precious Metals in Heterogeneous Catalysts. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 450-454	24.3	57
58	Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13768-13772	16.4	57
57	Facile preparation of chiral penicillamine protected gold nanoclusters and their applications in cell imaging. <i>Chemical Communications</i> , <b>2013</b> , 49, 2302-4	5.8	57
56	Putting gold nanocages to work for optical imaging, controlled release and cancer theranostics. <i>Nanomedicine</i> , <b>2016</b> , 11, 1715-28	5.6	57
55	Au nanoflower-Ag nanoparticle assembled SERS-active substrates for sensitive MC-LR detection. <i>Chemical Communications</i> , <b>2015</b> , 51, 16908-11	5.8	56
54	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well-Controlled Surface Structures. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801956	24	53
53	Mechanistic Insights into Electroreductive C-C Coupling between CO and Acetaldehyde into Multicarbon Products. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2975-2983	16.4	52
52	High-yield synthesis of silver nanoclusters protected by DNA monomers and DFT prediction of their photoluminescence properties. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2022-6	16.4	48
51	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9227-9237	9.6	45
50	Highly concentrated polycations-functionalized graphene nanosheets with excellent solubility and stability, and its fast, facile and controllable assembly of multiple nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 663-70	7.7	43
49	Gold Nanoparticles Doped with (199) Au Atoms and Their Use for Targeted Cancer Imaging by SPECT. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 928-35	10.1	40
48	A visible multi-digit DNA keypad lock based on split G-quadruplex DNAzyme and silver microspheres. <i>Chemical Communications</i> , <b>2013</b> , 49, 5459-61	5.8	40

47	Understanding the pH Dependence of Underpotential Deposited Hydrogen on Platinum. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17718-17723	16.4	39
46	Facile synthesis of Ag@Au core-sheath nanowires with greatly improved stability against oxidation. <i>Chemical Communications</i> , <b>2017</b> , 53, 1965-1968	5.8	36
45	Distinct PD-L1/PD1 Profiles and Clinical Implications in Intrahepatic Cholangiocarcinoma Patients with Different Risk Factors. <i>Theranostics</i> , <b>2019</b> , 9, 4678-4687	12.1	36
44	Growth Mechanism of Flowerlike Gold Nanostructures: Surface Plasmon Resonance (SPR) and Resonance Rayleigh Scattering (RRS) Approaches to Growth Monitoring. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 16348-16353	3.8	36
43	A dramatic platform for oxygen reduction reaction based on silver nanoclusters. <i>Chemical Communications</i> , <b>2014</b> , 50, 234-6	5.8	35
42	Pt-Ag cubic nanocages with wall thickness less than 2 nm and their enhanced catalytic activity toward oxygen reduction. <i>Nanoscale</i> , <b>2017</b> , 9, 15107-15114	7.7	34
41	Coating Pt-Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. <i>ChemSusChem</i> , <b>2016</b> , 9, 2209-15	8.3	31
40	Tunable preparation of ruthenium nanoparticles with superior size-dependent catalytic hydrogenation properties. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 332, 124-131	12.8	29
39	One-step synthesized silver micro-dendrites used as novel separation mediums and their applications in multi-DNA analysis. <i>Chemical Communications</i> , <b>2011</b> , 47, 10581-3	5.8	26
38	Overexpression of RNF38 facilitates TGF- $\beta$ signaling by Ubiquitinating and degrading AHNAK in hepatocellular carcinoma. <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2019</b> , 38, 113	12.8	25
37	The relationship between DNA sequences and oligonucleotide-templated silver nanoclusters and their fluorescence properties. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 1111-5	4.8	23
36	Controlling the Growth of Au on Icosahedral Seeds of Pd by Manipulating the Reduction Kinetics. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 20768-20774	3.8	22
35	Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13906-13910	3.6	21
34	Bioinformatics-based analysis reveals elevated MFSD12 as a key promoter of cell proliferation and a potential therapeutic target in melanoma. <i>Oncogene</i> , <b>2019</b> , 38, 1876-1891	9.2	21
33	Photothermal transformation of Au-Ag nanocages under pulsed laser irradiation. <i>Nanoscale</i> , <b>2019</b> , 11, 3013-3020	7.7	20
32	Site-selective growth of Ag nanocubes for sharpening their corners and edges, followed by elongation into nanobars through symmetry reduction. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1384-1392	7.1	19
31	Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13828-13832	16.4	17
30	Elucidation of the Active Phase and Deactivation Mechanisms of Chromium Nitride in the Electrochemical Nitrogen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23967-23975	3.8	15

29	Palladium@Platinum Concave Nanocubes with Enhanced Catalytic Activity toward Oxygen Reduction. <i>ChemCatChem</i> , <b>2016</b> , 8, 3082-3088	5.2	15
28	Facile Synthesis of Pd@Pt <sub>3</sub> Al Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , <b>2017</b> , 9, 414-419	5.2	14
27	Water-Based Synthesis of Sub-10 nm Pt Octahedra and Their Performance towards the Oxygen Reduction Reaction. <i>ChemNanoMat</i> , <b>2017</b> , 3, 879-884	3.5	14
26	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. <i>Chemical Communications</i> , <b>2016</b> , 52, 12594-12597	5.8	14
25	A Photochemical, Room-Temperature, and Aqueous Route to the Synthesis of Pd Nanocubes Enriched with Atomic Steps and Terraces on the Side Faces. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4563-4571	9.6	13
24	Potential Routes and Mitigation Strategies for Contamination in Interfacial Specific Infrared Spectroelectrochemical Studies. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24658-24664	3.8	13
23	Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 613-618	2.5	12
22	Selectivity Control in Catalytic Reductive Amination of Furfural to Furfurylamine on Supported Catalysts. <i>ChemCatChem</i> , <b>2020</b> , 12, 2106-2115	5.2	12
21	High-Yield Synthesis of Silver Nanoclusters Protected by DNA Monomers and DFT Prediction of their Photoluminescence Properties. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2076-2080	3.6	11
20	Ultrasensitive nucleic acid detection using confocal laser scanning microscope with high crystalline silver dendrites. <i>Chemical Communications</i> , <b>2010</b> , 46, 8818-20	5.8	11
19	ANN Based on IncCond Algorithm for MPP Tracker <b>2011</b> ,		10
18	Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14032-14036	3.6	10
17	Enhancing the Tactile and Near-Infrared Sensing Capabilities of Electrospun PVDF Nanofibers with the Use of Gold Nanocages. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10263-10269	7.1	10
16	Significant and Timely Ivory Trade Restrictions in Both China and the United States are Critical to Save Elephants. <i>Conservation Letters</i> , <b>2017</b> , 10, 596-601	6.9	9
15	Construction of N, P co-doped carbon frames anchored with Fe single atoms and Fe <sub>2</sub> P nanoparticles as robust coupling catalyst for electrocatalytic oxygen reduction. <i>Advanced Materials</i> , <b>2020</b> , 32, 203621	24	9
14	Antioxidant Properties of Phenolic Compounds in Renewable Parts of <i>Crataegus pinnatifida</i> Inferred from Seasonal Variations. <i>Journal of Food Science</i> , <b>2016</b> , 81, C1102-9	3.4	8
13	Conversion of Waste Tire Rubber into High-Value-Added Carbon Supports for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H881-H888	3.9	7
12	Understanding the pH Dependence of Underpotential Deposited Hydrogen on Platinum. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17882-17887	3.6	5

11	Electrodeposition-based controllable construction of film of nano-roughened, hierarchical Au microstructures on indium tin oxide (ITO) surface and its application towards the catalytic oxidation of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Electroanalytical Chemistry</i> , <b>2011</b> , 656, 17-22	4.1	4
10	Quantum Dots Electrostatically Adsorbed on the Surface of SiO <sub>2</sub> Nanoparticle-Decorated Phosphor Particles for White Light-Emitting Diodes with a Stable Optical Performance. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 12394-12400	5.6	2
9	Facile synthesis of Pt@Ag octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 3891-3897	2.5	1
8	A Smart Temperature-Regulating Garment for Portable, High-Efficiency and Comfortable Cooling. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2022</b> , 144,	2	1
7	Investigation of a novel SOI LDMOS using p+ buried islands in the drift region by numerical simulations. <i>Journal of Computational Electronics</i> , <b>2018</b> , 17, 646-652	1.8	0
6	Enhancing Heat Dissipation of Quantum Dots in High-Power White LEDs by Thermally Conductive Composites Annular Fins. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 1204-1207	4.4	0
5	Atomically Dispersed CoN <sub>3</sub> C <sub>1</sub> -TeN <sub>1</sub> C <sub>3</sub> Diatomic Sites Anchored in N-Doped Carbon as Efficient Bifunctional Catalyst for Synergistic Electrocatalytic Hydrogen Evolution and Oxygen Reduction. <i>Small</i> , <b>2020</b> , 16, 1901974	11	0
4	Facile Synthesis of Pd@Pt <sub>3</sub> Bi Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , <b>2017</b> , 9, 376-376	5.2	
3	Titelbild: Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride (Angew. Chem. 39/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13733-13733	3.6	
2	Rücktitelbild: Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages (Angew. Chem. 44/2016). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14104-14104	3.6	
1	Innenrücktitelbild: Understanding the pH Dependence of Underpotential Deposited Hydrogen on Platinum (Angew. Chem. 49/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18043-18043	3.6	