# Xuan Yang

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | A Smart Temperature-Regulating Garment for Portable, High-Efficiency and Comfortable Cooling. *Journal of Electronic Packaging, Transactions of the ASME*, **2022**, 144, | 2 | 1 |
| 81 | Enhancing Heat Dissipation of Quantum Dots in High-Power White LEDs by Thermally Conductive Composites Annular Fins. *IEEE Electron Device Letters*, **2021**, 42, 1204-1207 | 4.4 | 0 |
| 80 | Circular RNA circMET drives immunosuppression and anti-PD1 therapy resistance in hepatocellular carcinoma via the miR-30-5p/snail/DPP4 axis. *Molecular Cancer*, **2020**, 19, 92 | 42.1 | 62 |
| 79 | Mechanistic Insights into Electroreductive C-C Coupling between CO and Acetaldehyde into Multicarbon Products. *Journal of the American Chemical Society*, **2020**, 142, 2975-2983 | 16.4 | 52 |
| 78 | Selectivity Control in Catalytic Reductive Amination of Furfural to Furfurylamine on Supported Catalysts. *ChemCatChem*, **2020**, 12, 2106-2115 | 5.2 | 12 |
| 77 | Speciation of Cu Surfaces During the Electrochemical CO Reduction Reaction. *Journal of the American Chemical Society*, **2020**, 142, 9735-9743 | 16.4 | 70 |
| 76 | Quantum Dots Electrostatically Adsorbed on the Surface of SiO2 Nanoparticle-Decorated Phosphor Particles for White Light-Emitting Diodes with a Stable Optical Performance. *ACS Applied Nano Materials*, **2020**, 3, 12394-12400 | 5.6 | 2 |
| 75 | Elucidation of the Active Phase and Deactivation Mechanisms of Chromium Nitride in the Electrochemical Nitrogen Reduction Reaction. *Journal of Physical Chemistry C*, **2019**, 123, 23967-23975 | 3.8 | 15 |
| 74 | Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. *Nature Chemistry*, **2019**, 11, 222-228 | 17.6 | 337 |
| 73 | Photothermal transformation of Au-Ag nanocages under pulsed laser irradiation. *Nanoscale*, **2019**, 11, 3013-3020 | 7.7 | 20 |
| 72 | Circular RNA circTRIM33-12 acts as the sponge of MicroRNA-191 to suppress hepatocellular carcinoma progression. *Molecular Cancer*, **2019**, 18, 105 | 42.1 | 118 |
| 71 | Overexpression of RNF38 facilitates TGF-β signaling by Ubiquitinating and degrading AHNAK in hepatocellular carcinoma. *Journal of Experimental and Clinical Cancer Research*, **2019**, 38, 113 | 12.8 | 25 |
| 70 | Distinct PD-L1/PD1 Profiles and Clinical Implications in Intrahepatic Cholangiocarcinoma Patients with Different Risk Factors. *Theranostics*, **2019**, 9, 4678-4687 | 12.1 | 36 |
| 69 | Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. *Angewandte Chemie*, **2019**, 131, 13906-13910 | 3.6 | 21 |
| 68 | Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride. *Angewandte Chemie - International Edition*, **2019**, 58, 13768-13772 | 16.4 | 57 |
| 67 | Understanding the pH Dependence of Underpotential Deposited Hydrogen on Platinum. *Angewandte Chemie*, **2019**, 131, 17882-17887 | 3.6 | 5 |
| 66 | Titelbild: Quantification of Active Sites and Elucidation of the Reaction Mechanism of the Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride (Angew. Chem. 39/2019). *Angewandte Chemie*, **2019**, 131, 13733-13733 | 3.6 | |

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| 65 | Understanding the pH Dependence of Underpotential Deposited Hydrogen on Platinum. *Angewandte Chemie - International Edition*, **2019**, 58, 17718-17723 | 16.4 | 39 |
| 64 | Innenrücktitelbild: Understanding the pH Dependence of Underpotential Deposited Hydrogen on Platinum (Angew. Chem. 49/2019). *Angewandte Chemie*, **2019**, 131, 18043-18043 | 3.6 | |
| 63 | Bioinformatics-based analysis reveals elevated MFSD12 as a key promoter of cell proliferation and a potential therapeutic target in melanoma. *Oncogene*, **2019**, 38, 1876-1891 | 9.2 | 21 |
| 62 | Examination of Near-Electrode Concentration Gradients and Kinetic Impacts on the Electrochemical Reduction of CO2 using Surface-Enhanced Infrared Spectroscopy. *ACS Catalysis*, **2018**, 8, 3999-4008 | 13.1 | 96 |
| 61 | Investigation of a novel SOI LDMOS using p+ buried islands in the drift region by numerical simulations. *Journal of Computational Electronics*, **2018**, 17, 646-652 | 1.8 | 0 |
| 60 | Site-selective growth of Ag nanocubes for sharpening their corners and edges, followed by elongation into nanobars through symmetry reduction. *Journal of Materials Chemistry C*, **2018**, 6, 1384-1392 | 7.1 | 19 |
| 59 | Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well-Controlled Surface Structures. *Advanced Materials*, **2018**, 30, e1801956 | 24 | 53 |
| 58 | Conversion of Waste Tire Rubber into High-Value-Added Carbon Supports for Electrocatalysis. *Journal of the Electrochemical Society*, **2018**, 165, H881-H888 | 3.9 | 7 |
| 57 | Mechanistic Insights into Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 13387-13391 | 16.4 | 300 |
| 56 | Facile synthesis of Pt–Ag octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. *Journal of Materials Research*, **2018**, 33, 3891-3897 | 2.5 | 1 |
| 55 | Potential Routes and Mitigation Strategies for Contamination in Interfacial Specific Infrared Spectroelectrochemical Studies. *Journal of Physical Chemistry C*, **2018**, 122, 24658-24664 | 3.8 | 13 |
| 54 | Enhancing the Tactile and Near-Infrared Sensing Capabilities of Electrospun PVDF Nanofibers with the Use of Gold Nanocages. *Journal of Materials Chemistry C*, **2018**, 6, 10263-10269 | 7.1 | 10 |
| 53 | Shape-Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. *Advanced Materials*, **2018**, 30, e1706312 | 24 | 90 |
| 52 | Facile synthesis of Ag@Au core-sheath nanowires with greatly improved stability against oxidation. *Chemical Communications*, **2017**, 53, 1965-1968 | 5.8 | 36 |
| 51 | Facile Synthesis of Pd@Pt3–4L Core–Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. *ChemCatChem*, **2017**, 9, 376-376 | 5.2 | |
| 50 | Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. *Chemical Physics Letters*, **2017**, 683, 613-618 | 2.5 | 12 |
| 49 | A Photochemical, Room-Temperature, and Aqueous Route to the Synthesis of Pd Nanocubes Enriched with Atomic Steps and Terraces on the Side Faces. *Chemistry of Materials*, **2017**, 29, 4563-4571 | 9.6 | 13 |
| 48 | Symmetry breaking during nanocrystal growth. *Chemical Communications*, **2017**, 53, 4530-4541 | 5.8 | 71 |

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| 47 | Tunable preparation of ruthenium nanoparticles with superior size-dependent catalytic hydrogenation properties. *Journal of Hazardous Materials*, **2017**, 332, 124-131 | 12.8 | 29 |
| 46 | Toward Cost-Effective and Sustainable Use of Precious Metals in Heterogeneous Catalysts. *Accounts of Chemical Research*, **2017**, 50, 450-454 | 24.3 | 57 |
| 45 | Facile Synthesis of Pd@Pt3□L Core□Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. *ChemCatChem*, **2017**, 9, 414-419 | 5.2 | 14 |
| 44 | Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. *Chemistry of Materials*, **2017**, 29, 9227-9237 | 9.6 | 45 |
| 43 | Pt-Ag cubic nanocages with wall thickness less than 2 nm and their enhanced catalytic activity toward oxygen reduction. *Nanoscale*, **2017**, 9, 15107-15114 | 7.7 | 34 |
| 42 | Water-Based Synthesis of Sub-10 nm Pt Octahedra and Their Performance towards the Oxygen Reduction Reaction. *ChemNanoMat*, **2017**, 3, 879-884 | 3.5 | 14 |
| 41 | Significant and Timely Ivory Trade Restrictions in Both China and the United States are Critical to Save Elephants. *Conservation Letters*, **2017**, 10, 596-601 | 6.9 | 9 |
| 40 | Electrochemical Nitrogen Reduction Reaction on Noble Metal Catalysts in Proton and Hydroxide Exchange Membrane Electrolyzers. *Journal of the Electrochemical Society*, **2017**, 164, F1712-F1716 | 3.9 | 65 |
| 39 | Palladium@Platinum Concave Nanocubes with Enhanced Catalytic Activity toward Oxygen Reduction. *ChemCatChem*, **2016**, 8, 3082-3088 | 5.2 | 15 |
| 38 | Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. *ACS Nano*, **2016**, 10, 9861-9870 | 16.7 | 112 |
| 37 | Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. *Angewandte Chemie - International Edition*, **2016**, 55, 13828-13832 | 16.4 | 17 |
| 36 | Coating Pt-Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. *ChemSusChem*, **2016**, 9, 2209-15 | 8.3 | 31 |
| 35 | Gold Nanoparticles Doped with (199) Au Atoms and Their Use for Targeted Cancer Imaging by SPECT. *Advanced Healthcare Materials*, **2016**, 5, 928-35 | 10.1 | 40 |
| 34 | Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. *Nano Letters*, **2016**, 16, 1467-71 | 11.5 | 197 |
| 33 | □u-Doped PdCu@Au Tripods: A Multifunctional Nanomaterial for Positron Emission Tomography and Image-Guided Photothermal Cancer Treatment. *ACS Nano*, **2016**, 10, 3121-31 | 16.7 | 85 |
| 32 | Antioxidant Properties of Phenolic Compounds in Renewable Parts of Crataegus pinnatifida inferred from Seasonal Variations. *Journal of Food Science*, **2016**, 81, C1102-9 | 3.4 | 8 |
| 31 | Putting gold nanocages to work for optical imaging, controlled release and cancer theranostics. *Nanomedicine*, **2016**, 11, 1715-28 | 5.6 | 57 |
| 30 | R□ktitelbild: Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages (Angew. Chem. 44/2016). *Angewandte Chemie*, **2016**, 128, 14104-14104 | 3.6 | |

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| 29 | Controlling the Growth of Au on Icosahedral Seeds of Pd by Manipulating the Reduction Kinetics. *Journal of Physical Chemistry C*, **2016**, 120, 20768-20774 | 3.8 | 22 |
| 28 | Synthesis of Pt-Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. *Nano Letters*, **2016**, 16, 3850-7 | 11.5 | 70 |
| 27 | Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. *Chemical Communications*, **2016**, 52, 12594-12597 | 5.8 | 14 |
| 26 | Synthesis and Characterization of Pt-Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. *Nano Letters*, **2016**, 16, 6644-6649 | 11.5 | 132 |
| 25 | Synthesis and Characterization of Ru Cubic Nanocages with a Face-Centered Cubic Structure by Templating with Pd Nanocubes. *Nano Letters*, **2016**, 16, 5310-7 | 11.5 | 84 |
| 24 | Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. *Angewandte Chemie*, **2016**, 128, 14032-14036 | 3.6 | 10 |
| 23 | A label-free fluorescent molecular beacon based on DNA-Ag nanoclusters for the construction of versatile Biosensors. *Biosensors and Bioelectronics*, **2015**, 74, 318-21 | 11.8 | 62 |
| 22 | Au nanoflower-Ag nanoparticle assembled SERS-active substrates for sensitive MC-LR detection. *Chemical Communications*, **2015**, 51, 16908-11 | 5.8 | 56 |
| 21 | Gold Nanomaterials at Work in Biomedicine. *Chemical Reviews*, **2015**, 115, 10410-88 | 68.1 | 818 |
| 20 | Double Detection of Mycotoxins Based on SERS Labels Embedded Ag@Au Core-Shell Nanoparticles. *ACS Applied Materials & Interfaces*, **2015**, 7, 21780-6 | 9.5 | 117 |
| 19 | Stable Cu nanoclusters: from an aggregation-induced emission mechanism to biosensing and catalytic applications. *Chemical Communications*, **2014**, 50, 237-9 | 5.8 | 266 |
| 18 | A dramatic platform for oxygen reduction reaction based on silver nanoclusters. *Chemical Communications*, **2014**, 50, 234-6 | 5.8 | 35 |
| 17 | The relationship between DNA sequences and oligonucleotide-templated silver nanoclusters and their fluorescence properties. *Chemistry - A European Journal*, **2014**, 20, 1111-5 | 4.8 | 23 |
| 16 | Highly concentrated polycations-functionalized graphene nanosheets with excellent solubility and stability, and its fast, facile and controllable assembly of multiple nanoparticles. *Nanoscale*, **2013**, 5, 663-70 | 7.7 | 43 |
| 15 | A visible multi-digit DNA keypad lock based on split G-quadruplex DNAzyme and silver microspheres. *Chemical Communications*, **2013**, 49, 5459-61 | 5.8 | 40 |
| 14 | High-yield synthesis of silver nanoclusters protected by DNA monomers and DFT prediction of their photoluminescence properties. *Angewandte Chemie - International Edition*, **2013**, 52, 2022-6 | 16.4 | 48 |
| 13 | Facile preparation of chiral penicillamine protected gold nanoclusters and their applications in cell imaging. *Chemical Communications*, **2013**, 49, 2302-4 | 5.8 | 57 |
| 12 | High-Yield Synthesis of Silver Nanoclusters Protected by DNA Monomers and DFT Prediction of their Photoluminescence Properties. *Angewandte Chemie*, **2013**, 125, 2076-2080 | 3.6 | 11 |

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| 11 | DNA-hosted copper nanoclusters for fluorescent identification of single nucleotide polymorphisms. *ACS Nano*, **2012**, 6, 3311-7 | 16.7 | 230 |
| 10 | Solid-state label-free integrated aptasensor based on graphene-mesoporous silica-gold nanoparticle hybrids and silver microspheres. *Analytical Chemistry*, **2011**, 83, 8035-40 | 7.8 | 86 |
| 9 | A nanoparticle autocatalytic sensor for Ag+ and Cu2+ ions in aqueous solution with high sensitivity and selectivity and its application in test paper. *Analytical Chemistry*, **2011**, 83, 5005-11 | 7.8 | 121 |
| 8 | ANN Based on IncCond Algorithm for MPP Tracker **2011**, | | 10 |
| 7 | One-step synthesized silver micro-dendrites used as novel separation mediums and their applications in multi-DNA analysis. *Chemical Communications*, **2011**, 47, 10581-3 | 5.8 | 26 |
| 6 | 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 H2O2. *Journal of Electroanalytical Chemistry*, **2011**, 656, 17-22 | 4.1 | 4 |
| 5 | Potassium-sensitive G-quadruplex DNA for sensitive visible potassium detection. *Analyst, The*, **2010** , 135, 71-5 | 5 | 74 |
| 4 | Ultrasensitive nucleic acid detection using confocal laser scanning microscope with high crystalline silver dendrites. *Chemical Communications*, **2010**, 46, 8818-20 | 5.8 | 11 |
| 3 | Growth Mechanism of Flowerlike Gold Nanostructures: Surface Plasmon Resonance (SPR) and Resonance Rayleigh Scattering (RRS) Approaches to Growth Monitoring. *Journal of Physical Chemistry C*, **2008**, 112, 16348-16353 | 3.8 | 36 |
| 2 | Construction of N, P co-doped carbon frames anchored with Fe single atoms and Fe 2 P nanoparticles as robust coupling catalyst for electrocatalytic oxygen reduction. *Advanced Materials*,2203621 | 24 | 9 |
| 1 | Atomically Dispersed CoN 3 C 1 -TeN 1 C 3 Diatomic Sites Anchored in N-Doped Carbon as Efficient Bifunctional Catalyst for Synergistic Electrocatalytic Hydrogen Evolution and Oxygen Reduction. *Small*,2201974 | 11 | 0 |