

# Xiaohu Xia

## 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.

70  
papers

7,378  
citations

40  
h-index

74  
g-index

74  
ext. papers

8,198  
ext. citations

9.2  
avg. IF

6.19  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 70 | 25th anniversary article: galvanic replacement: a simple and versatile route to hollow nanostructures with tunable and well-controlled properties. <i>Advanced Materials</i> , <b>2013</b> , 25, 6313-33                 | 24   | 692       |
| 69 | Gold nanocages: from synthesis to theranostic applications. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 914-24  | 24.3 | 668       |
| 68 | Shape-Controlled Synthesis of Colloidal Metal Nanocrystals: Thermodynamic versus Kinetic Products. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7947-66  | 16.4 | 606       |
| 67 | 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       |
| 66 | Seed-Mediated Growth of Colloidal Metal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 60-95   | 16.4 | 428       |
| 65 | 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       |
| 64 | Quantitative analysis of the role played by poly(vinylpyrrolidone) in seed-mediated growth of Ag nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 1793-801                             | 16.4 | 238       |
| 63 | Generation of hot spots with silver nanocubes for single-molecule detection by surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 5473-7                            | 16.4 | 217       |
| 62 | Pd-Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. <i>ACS Nano</i> , <b>2015</b> , 9, 9994-10004   | 16.7 | 198       |
| 61 | Quantifying the coverage density of poly(ethylene glycol) chains on the surface of gold nanostructures. <i>ACS Nano</i> , <b>2012</b> , 6, 512-22  | 16.7 | 186       |
| 60 | Successive deposition of silver on silver nanoplates: lateral versus vertical growth. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 244-9   | 16.4 | 178       |
| 59 | Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. <i>Nano Letters</i> , <b>2017</b> , 17, 5572-5579  | 11.5 | 167       |
| 58 | Silver nanocrystals with concave surfaces and their optical and surface-enhanced Raman scattering properties. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12542-6                               | 16.4 | 161       |
| 57 | Recent Developments in Shape-Controlled Synthesis of Silver Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21647-21656  | 3.8  | 155       |
| 56 | Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. <i>Nano Letters</i> , <b>2016</b> , 16, 2812-7  | 11.5 | 148       |
| 55 | Evaluating the pharmacokinetics and in vivo cancer targeting capability of Au nanocages by positron emission tomography imaging. <i>ACS Nano</i> , <b>2012</b> , 6, 5880-8   | 16.7 | 138       |
| 54 | 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       |

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|----|---|------|-----|
| 53 | 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 |
| 52 | Facile synthesis of iridium nanocrystals with well-controlled facets using seed-mediated growth. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10878-81  | 16.4 | 131 |
| 51 | Facile synthesis of palladium right bipyramids and their use as seeds for overgrowth and as catalysts for formic acid oxidation. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15706-9                 | 16.4 | 125 |
| 50 | Radioluminescent gold nanocages with controlled radioactivity for real-time in vivo imaging. <i>Nano Letters</i> , <b>2013</b> , 13, 581-5  | 11.5 | 114 |
| 49 | Fluorescent probe-based lateral flow assay for multiplex nucleic acid detection. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5611-4   | 7.8  | 110 |
| 48 | An Enzyme-Free Signal Amplification Technique for Ultrasensitive Colorimetric Assay of Disease Biomarkers. <i>ACS Nano</i> , <b>2017</b> , 11, 2052-2059  | 16.7 | 104 |
| 47 | Lateral flow immunoassay using europium chelate-loaded silica nanoparticles as labels. <i>Clinical Chemistry</i> , <b>2009</b> , 55, 179-82   | 5.5  | 100 |
| 46 | Shape-controlled synthesis of metal nanocrystals. <i>MRS Bulletin</i> , <b>2013</b> , 38, 335-344   | 3.2  | 99  |
| 45 | 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  |
| 44 | Facile synthesis of five-fold twinned, starfish-like rhodium nanocrystals by eliminating oxidative etching with a chloride-free precursor. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5296-300      | 16.4 | 92  |
| 43 | A Comprehensive Study of Formic Acid Oxidation on Palladium Nanocrystals with Different Types of Facets and Twin Defects. <i>ChemCatChem</i> , <b>2015</b> , 7, 2077-2084   | 5.2  | 91  |
| 42 | Symmetry breaking during seeded growth of nanocrystals. <i>Nano Letters</i> , <b>2012</b> , 12, 6038-42   | 11.5 | 75  |
| 41 | Facile Colorimetric Detection of Silver Ions with Picomolar Sensitivity. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3622-3629  | 7.8  | 72  |
| 40 | Robust synthesis of gold cubic nanoframes through a combination of galvanic replacement, gold deposition, and silver dealloying. <i>Small</i> , <b>2013</b> , 9, 3111-7   | 11   | 62  |
| 39 | Synthesis of Ag nanobars in the presence of single-crystal seeds and a bromide compound, and their surface-enhanced Raman scattering (SERS) properties. <i>Langmuir</i> , <b>2012</b> , 28, 9047-54                           | 4    | 61  |
| 38 | An enzyme-sensitive probe for photoacoustic imaging and fluorescence detection of protease activity. <i>Nanoscale</i> , <b>2011</b> , 3, 950-3  | 7.7  | 59  |
| 37 | Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 60-98  | 3.6  | 55  |
| 36 | Generation of Hot Spots with Silver Nanocubes for Single-Molecule Detection by Surface-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 5587-5591   | 3.6  | 48  |

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|----|---|------|----|
| 35 | Strain Effect in Palladium Nanostructures as Nanozymes. <i>Nano Letters</i> , <b>2020</b> , 20, 272-277   | 11.5 | 46 |
| 34 | Enhancing the sensitivity of colorimetric lateral flow assay (CLFA) through signal amplification techniques. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7102-7111                                   | 7.3  | 45 |
| 33 | Gold nanocages as multifunctional materials for nanomedicine. <i>Frontiers of Physics</i> , <b>2014</b> , 9, 378-384  | 3.7  | 45 |
| 32 | SV119-gold nanocage conjugates: a new platform for targeting cancer cells via sigma-2 receptors. <i>Nanoscale</i> , <b>2012</b> , 4, 421-4  | 7.7  | 43 |
| 31 | Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12750-12754   | 3.6  | 42 |
| 30 | Nickel-Platinum Nanoparticles as Peroxidase Mimics with a Record High Catalytic Efficiency. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2660-2664  | 16.4 | 37 |
| 29 | Silica-coated dimers of silver nanospheres as surface-enhanced Raman scattering tags for imaging cancer cells. <i>Interface Focus</i> , <b>2013</b> , 3, 20120092   | 3.9  | 31 |
| 28 | Application of europium(III) chelates-bonded silica nanoparticle in time-resolved immunofluorometric detection assay for human thyroid stimulating hormone. <i>Analytica Chimica Acta</i> , <b>2012</b> , 722, 95-9 | 6.6  | 31 |
| 27 | Polyvinylpyrrolidone (PVP)-Capped Pt Nanocubes with Superior Peroxidase-Like Activity. <i>ChemNanoMat</i> , <b>2017</b> , 3, 33-38  | 3.5  | 29 |
| 26 | Peroxidase-like properties of Ruthenium nanoframes. <i>Science Bulletin</i> , <b>2016</b> , 61, 1739-1745   | 10.6 | 29 |
| 25 | Tandem conjugation of enzyme and antibody on silica nanoparticle for enzyme immunoassay. <i>Analytical Biochemistry</i> , <b>2010</b> , 406, 8-13   | 3.1  | 29 |
| 24 | A highly sensitive europium nanoparticle-based lateral flow immunoassay for detection of chloramphenicol residue. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7541-4                         | 4.4  | 28 |
| 23 | Successive Deposition of Silver on Silver Nanoplates: Lateral versus Vertical Growth. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 258-263   | 3.6  | 28 |
| 22 | Engineered Noble-Metal Nanostructures for in Vitro Diagnostics. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8391-8414   | 9.4  | 26 |
| 21 | A non-enzyme cascade amplification strategy for colorimetric assay of disease biomarkers. <i>Chemical Communications</i> , <b>2017</b> , 53, 9055-9058  | 5.8  | 22 |
| 20 | Morphology-Invariant Metallic Nanoparticles with Tunable Plasmonic Properties. <i>ACS Nano</i> , <b>2021</b> , 15, 2428-2438  | 16.7 | 18 |
| 19 | Template Regeneration in Galvanic Replacement: A Route to Highly Diverse Hollow Nanostructures. <i>ACS Nano</i> , <b>2020</b> , 14, 791-801   | 16.7 | 17 |
| 18 | Size Effect in Pd-Ir Core-Shell Nanoparticles as Nanozymes. <i>ChemBioChem</i> , <b>2020</b> , 21, 2440-2444  | 3.8  | 17 |

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|----|--|------|----|
| 17 | Facile Synthesis of Five-fold Twinned, Starfish-like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chloride-Free Precursor. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 5424-5428   | 3.6  | 15 |
| 16 | Silver nanocube on gold microplate as a well-defined and highly active substrate for SERS detection. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1,  | 7.1  | 14 |
| 15 | A simple colorimetric method for the quantification of Au(III) ions and its use in quantifying Au nanoparticles. <i>Analytical Methods</i> , <b>2015</b> , 7, 3671-3675  | 3.2  | 13 |
| 14 | One-Pot Synthesis of Single-Crystal Palladium Nanoparticles with Controllable Sizes for Applications in Catalysis and Biomedicine. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 4605-4612  | 5.6  | 12 |
| 13 | Using well-defined Ag nanocubes as substrates to quantify the spatial resolution and penetration depth of surface-enhanced Raman scattering imaging. <i>Nanotechnology</i> , <b>2014</b> , 25, 014007  | 3.4  | 11 |
| 12 | PdRu Bimetallic Nanocrystals with a Porous Structure and Their Enhanced Catalytic Properties. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1700386  | 3.1  | 10 |
| 11 | Improving correlated SERS measurements with scanning electron microscopy: an assessment of the problem arising from the deposition of amorphous carbon. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5400-6                | 3.6  | 9  |
| 10 | Noble-Metal Nanostructures as Highly Efficient Peroxidase Mimics. <i>ChemNanoMat</i> , <b>2019</b> , 5, 860-868  | 3.5  | 7  |
| 9  | Nanocrystals of platinum-group metals as peroxidase mimics for diagnostics. <i>Chemical Communications</i> , <b>2020</b> , 56, 14962-14975   | 5.8  | 5  |
| 8  | Controllable synthesis of platinum diselenide (PtSe <sub>2</sub> ) inorganic fullerene. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18925-18932   | 13   | 5  |
| 7  | Peroxidase-AgAu hybrid nanocages as signal transducers for sensitive plasmonic colorimetric sensing. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 15179-15187  | 7.1  | 5  |
| 6  | Ultrafast and sensitive colorimetric detection of ascorbic acid with Pd-Pt core-shell nanostructure as peroxidase mimic. <i>Sensors International</i> , <b>2020</b> , 1, 100031  | 6.1  | 4  |
| 5  | Rapid testing for coronavirus disease 2019 (COVID-19).. <i>MRS Communications</i> , <b>2022</b> , 12, 1-12   | 2.7  | 2  |
| 4  | Ultrasmall Iridium Nanoparticles as Efficient Peroxidase Mimics for Colorimetric Bioassays. <i>ACS Applied Nano Materials</i> ,  | 5.6  | 1  |
| 3  | Noble-Metal Nanostructures as Artificial Enzymes: Controlled Synthesis and Electron Microscope Characterizations. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1640-1641  | 0.5  |    |
| 2  | Innentitelbild: Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties (Angew. Chem. 52/2011). <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12576-12576                               | 3.6  |    |
| 1  | Inside Cover: Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties (Angew. Chem. Int. Ed. 52/2011). <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12368-12368 | 16.4 |    |