Xiaohu Xia

List of Publications by Year in Descending Order

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	Rapid testing for coronavirus disease 2019 (COVID-19).. *MRS Communications*, **2022**, 12, 1-12	2.7	2
69	Nickel-Platinum Nanoparticles as Peroxidase Mimics with a Record High Catalytic Efficiency. *Journal of the American Chemical Society*, **2021**, 143, 2660-2664	16.4	37
68	Morphology-Invariant Metallic Nanoparticles with Tunable Plasmonic Properties. *ACS Nano*, **2021**, 15, 2428-2438	16.7	18
67	Ultrafast and sensitive colorimetric detection of ascorbic acid with Pd-Pt core-shell nanostructure as peroxidase mimic. *Sensors International*, **2020**, 1, 100031	6.1	4
66	Template Regeneration in Galvanic Replacement: A Route to Highly Diverse Hollow Nanostructures. *ACS Nano*, **2020**, 14, 791-801	16.7	17
65	Size Effect in Pd-Ir Core-Shell Nanoparticles as Nanozymes. *ChemBioChem*, **2020**, 21, 2440-2444	3.8	17
64	Strain Effect in Palladium Nanostructures as Nanozymes. *Nano Letters*, **2020**, 20, 272-277	11.5	46
63	Nanocrystals of platinum-group metals as peroxidase mimics for diagnostics. *Chemical Communications*, **2020**, 56, 14962-14975	5.8	5
62	Controllable synthesis of platinum diselenide (PtSe2) inorganic fullerene. *Journal of Materials Chemistry A*, **2020**, 8, 18925-18932	13	5
61	Noble-Metal Nanostructures as Highly Efficient Peroxidase Mimics. *ChemNanoMat*, **2019**, 5, 860-868	3.5	7
60	One-Pot Synthesis of Single-Crystal Palladium Nanoparticles with Controllable Sizes for Applications in Catalysis and Biomedicine. *ACS Applied Nano Materials*, **2019**, 2, 4605-4612	5.6	12
59	Peroxidase-AgAu hybrid nanocages as signal transducers for sensitive plasmonic colorimetric sensing. *Journal of Materials Chemistry C*, **2019**, 7, 15179-15187	7.1	5
58	PdRu Bimetallic Nanocrystals with a Porous Structure and Their Enhanced Catalytic Properties. *Particle and Particle Systems Characterization*, **2018**, 35, 1700386	3.1	10
57	Enhancing the sensitivity of colorimetric lateral flow assay (CLFA) through signal amplification techniques. *Journal of Materials Chemistry B*, **2018**, 6, 7102-7111	7.3	45
56	Noble-Metal Nanostructures as Artificial Enzymes: Controlled Synthesis and Electron Microscope Characterizations. *Microscopy and Microanalysis*, **2018**, 24, 1640-1641	0.5	
55	Engineered Noble-Metal Nanostructures for in Vitro Diagnostics. *Chemistry of Materials*, **2018**, 30, 8391-8414	9.4	26
54	An Enzyme-Free Signal Amplification Technique for Ultrasensitive Colorimetric Assay of Disease Biomarkers. *ACS Nano*, **2017**, 11, 2052-2059	16.7	104

53	Facile Colorimetric Detection of Silver Ions with Picomolar Sensitivity. *Analytical Chemistry*, **2017**, 89, 3622-3629	7.8	72
52	Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. *Angewandte Chemie*, **2017**, 129, 60-98	3.6	55
51	Polyvinylpyrrolidone (PVP)-Capped Pt Nanocubes with Superior Peroxidase-Like Activity. *ChemNanoMat*, **2017**, 3, 33-38	3.5	29
50	Seed-Mediated Growth of Colloidal Metal Nanocrystals. *Angewandte Chemie - International Edition*, **2017**, 56, 60-95	16.4	428
49	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. *Nano Letters*, **2017**, 17, 5572-5579	11.5	167
48	A non-enzyme cascade amplification strategy for colorimetric assay of disease biomarkers. *Chemical Communications*, **2017**, 53, 9055-9058	5.8	22
47	Peroxidase-like properties of Ruthenium nanoframes. *Science Bulletin*, **2016**, 61, 1739-1745	10.6	29
46	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. *Nano Letters*, **2016**, 16, 2812-7	11.5	148
45	A simple colorimetric method for the quantification of Au(III) ions and its use in quantifying Au nanoparticles. *Analytical Methods*, **2015**, 7, 3671-3675	3.2	13
44	Pd-Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. *ACS Nano*, **2015**, 9, 9994-10004	16.7	198
43	A Comprehensive Study of Formic Acid Oxidation on Palladium Nanocrystals with Different Types of Facets and Twin Defects. *ChemCatChem*, **2015**, 7, 2077-2084	5.2	91
42	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals: Thermodynamic versus Kinetic Products. *Journal of the American Chemical Society*, **2015**, 137, 7947-66	16.4	606
41	Using well-defined Ag nanocubes as substrates to quantify the spatial resolution and penetration depth of surface-enhanced Raman scattering imaging. *Nanotechnology*, **2014**, 25, 014007	3.4	11
40	Facile synthesis of iridium nanocrystals with well-controlled facets using seed-mediated growth. *Journal of the American Chemical Society*, **2014**, 136, 10878-81	16.4	131
39	Fluorescent probe-based lateral flow assay for multiplex nucleic acid detection. *Analytical Chemistry*, **2014**, 86, 5611-4	7.8	110
38	Gold nanocages as multifunctional materials for nanomedicine. *Frontiers of Physics*, **2014**, 9, 378-384	3.7	45
37	Facile synthesis of palladium right bipyramids and their use as seeds for overgrowth and as catalysts for formic acid oxidation. *Journal of the American Chemical Society*, **2013**, 135, 15706-9	16.4	125
36	A highly sensitive europium nanoparticle-based lateral flow immunoassay for detection of chloramphenicol residue. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 7541-4	4.4	28

35	25th anniversary article: galvanic replacement: a simple and versatile route to hollow nanostructures with tunable and well-controlled properties. *Advanced Materials*, **2013**, 25, 6313-33	24	692
34	Silver nanocube on gold microplate as a well-defined and highly active substrate for SERS detection. *Journal of Materials Chemistry C*, **2013**, 1,	7.1	14
33	Radioluminescent gold nanocages with controlled radioactivity for real-time in vivo imaging. *Nano Letters*, **2013**, 13, 581-5	11.5	114
32	Improving correlated SERS measurements with scanning electron microscopy: an assessment of the problem arising from the deposition of amorphous carbon. *Physical Chemistry Chemical Physics*, **2013**, 15, 5400-6	3.6	9
31	Silica-coated dimers of silver nanospheres as surface-enhanced Raman scattering tags for imaging cancer cells. *Interface Focus*, **2013**, 3, 20120092	3.9	31
30	Quantitative analysis of the coverage density of Br- ions on Pd{100} facets and its role in controlling the shape of Pd nanocrystals. *Journal of the American Chemical Society*, **2013**, 135, 3780-3	16.4	132
29	Shape-controlled synthesis of metal nanocrystals. *MRS Bulletin*, **2013**, 38, 335-344	3.2	99
28	Robust synthesis of gold cubic nanoframes through a combination of galvanic replacement, gold deposition, and silver dealloying. *Small*, **2013**, 9, 3111-7	11	62
27	Synthesis of silver octahedra with controlled sizes and optical properties via seed-mediated growth. *ACS Nano*, **2013**, 7, 4586-94	16.7	133
26	Catalysis on faceted noble-metal nanocrystals: both shape and size matter. *Current Opinion in Chemical Engineering*, **2013**, 2, 142-150	5.4	96
25	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. *Nano Letters*, **2013**, 13, 3420-5	11.5	475
24	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, 6669-73	11.5	285
23	Symmetry breaking during seeded growth of nanocrystals. *Nano Letters*, **2012**, 12, 6038-42	11.5	75
22	Evaluating the pharmacokinetics and in vivo cancer targeting capability of Au nanocages by positron emission tomography imaging. *ACS Nano*, **2012**, 6, 5880-8	16.7	138
21	Quantitative analysis of the role played by poly(vinylpyrrolidone) in seed-mediated growth of Ag nanocrystals. *Journal of the American Chemical Society*, **2012**, 134, 1793-801	16.4	238
20	Recent Developments in Shape-Controlled Synthesis of Silver Nanocrystals. *Journal of Physical Chemistry C*, **2012**, 116, 21647-21656	3.8	155
19	Quantifying the coverage density of poly(ethylene glycol) chains on the surface of gold nanostructures. *ACS Nano*, **2012**, 6, 512-22	16.7	186
18	Application of europium(III) chelates-bonded silica nanoparticle in time-resolved immunofluorometric detection assay for human thyroid stimulating hormone. *Analytica Chimica Acta*, **2012**, 722, 95-9	6.6	31

17	Synthesis of Ag nanobars in the presence of single-crystal seeds and a bromide compound, and their surface-enhanced Raman scattering (SERS) properties. *Langmuir*, **2012**, 28, 9047-54	4	61
16	SV119-gold nanocage conjugates: a new platform for targeting cancer cells via sigma-2 receptors. *Nanoscale*, **2012**, 4, 421-4	7.7	43
15	Gold nanocages: from synthesis to theranostic applications. *Accounts of Chemical Research*, **2011**, 44, 914-24	24.3	668
14	Successive Deposition of Silver on Silver Nanoplates: Lateral versus Vertical Growth. *Angewandte Chemie*, **2011**, 123, 258-263	3.6	28
13	Generation of Hot Spots with Silver Nanocubes for Single-Molecule Detection by Surface-Enhanced Raman Scattering. *Angewandte Chemie*, **2011**, 123, 5587-5591	3.6	48
12	Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties. *Angewandte Chemie*, **2011**, 123, 12750-12754	3.6	42
11	Innentitelbild: Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties (Angew. Chem. 52/2011). *Angewandte Chemie*, **2011**, 123, 12576-12576	3.6	
10	Successive deposition of silver on silver nanoplates: lateral versus vertical growth. *Angewandte Chemie - International Edition*, **2011**, 50, 244-9	16.4	178
9	Generation of hot spots with silver nanocubes for single-molecule detection by surface-enhanced Raman scattering. *Angewandte Chemie - International Edition*, **2011**, 50, 5473-7	16.4	217
8	Silver nanocrystals with concave surfaces and their optical and surface-enhanced Raman scattering properties. *Angewandte Chemie - International Edition*, **2011**, 50, 12542-6	16.4	161
7	Inside Cover: Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties (Angew. Chem. Int. Ed. 52/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 12368-12368	16.4	
6	An enzyme-sensitive probe for photoacoustic imaging and fluorescence detection of protease activity. *Nanoscale*, **2011**, 3, 950-3	7.7	59
5	Facile Synthesis of Five-fold Twinned, Starfish-like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chloride-Free Precursor. *Angewandte Chemie*, **2010**, 122, 5424-5428	3.6	15
4	Facile synthesis of five-fold twinned, starfish-like rhodium nanocrystals by eliminating oxidative etching with a chloride-free precursor. *Angewandte Chemie - International Edition*, **2010**, 49, 5296-300	16.4	92
3	Tandem conjugation of enzyme and antibody on silica nanoparticle for enzyme immunoassay. *Analytical Biochemistry*, **2010**, 406, 8-13	3.1	29
2	Lateral flow immunoassay using europium chelate-loaded silica nanoparticles as labels. *Clinical Chemistry*, **2009**, 55, 179-82	5.5	100
1	Ultrasmall Iridium Nanoparticles as Efficient Peroxidase Mimics for Colorimetric Bioassays. *ACS Applied Nano Materials*,	5.6	1