

# Xiaochun Wu

## List of Publications by Year in descending order

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62  
papers

6,478  
citations

136950

32  
h-index

118850

62  
g-index

63  
all docs

63  
docs citations

63  
times ranked

9487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous Silica-Coated Gold Nanorods as a Light-Mediated Multifunctional Theranostic Platform for Cancer Treatment. <i>Advanced Materials</i> , 2012, 24, 1418-1423.	21.0	881
2	Surface chemistry and aspect ratio mediated cellular uptake of Au nanorods. <i>Biomaterials</i> , 2010, 31, 7606-7619.	11.4	613
3	Au@Pt nanostructures as oxidase and peroxidase mimetics for use in immunoassays. <i>Biomaterials</i> , 2011, 32, 1139-1147.	11.4	531
4	Selective Targeting of Gold Nanorods at the Mitochondria of Cancer Cells: Implications for Cancer Therapy. <i>Nano Letters</i> , 2011, 11, 772-780.	9.1	475
5	Mechanisms of Oxidase and Superoxide Dismutation-like Activities of Gold, Silver, Platinum, and Palladium, and Their Alloys: A General Way to the Activation of Molecular Oxygen. <i>Journal of the American Chemical Society</i> , 2015, 137, 15882-15891.	13.7	407
6	Direct evidence for catalase and peroxidase activities of ferritin-platinum nanoparticles. <i>Biomaterials</i> , 2011, 32, 1611-1618.	11.4	397
7	Mechanism of pH-switchable peroxidase and catalase-like activities of gold, silver, platinum and palladium. <i>Biomaterials</i> , 2015, 48, 37-44.	11.4	395
8	Thermo-triggered Release of CRISPR-Cas9 System by Lipid-Encapsulated Gold Nanoparticles for Tumor Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1491-1496.	13.8	306
9	Revealing the Binding Structure of the Protein Corona on Gold Nanorods Using Synchrotron Radiation-Based Techniques: Understanding the Reduced Damage in Cell Membranes. <i>Journal of the American Chemical Society</i> , 2013, 135, 17359-17368.	13.7	239
10	Localized Electric Field of Plasmonic Nanoplatfrom Enhanced Photodynamic Tumor Therapy. <i>ACS Nano</i> , 2014, 8, 11529-11542.	14.6	220
11	Surface chemistry of gold nanorods: origin of cell membrane damage and cytotoxicity. <i>Nanoscale</i> , 2013, 5, 8384.	5.6	141
12	Novel Insights into Combating Cancer Chemotherapy Resistance Using a Plasmonic Nanocarrier: Enhancing Drug Sensitiveness and Accumulation Simultaneously with Localized Mild Photothermal Stimulus of Femtosecond Pulsed Laser. <i>Advanced Functional Materials</i> , 2014, 24, 4229-4239.	14.9	130
13	Characterization of gold nanorods in vivo by integrated analytical techniques: their uptake, retention, and chemical forms. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1105-1114.	3.7	108
14	Well-Controlled Synthesis of Au@Pt Nanostructures by Gold-Nanorod-Seeded Growth. <i>Chemistry - A European Journal</i> , 2008, 14, 9764-9771.	3.3	101
15	Corona of Thorns: The Surface Chemistry-Mediated Protein Corona Perturbs the Recognition and Immune Response of Macrophages. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1997-2008.	8.0	100
16	Tuning the Morphology of Gold Nanocrystals by Switching the Growth of {110} Facets from Restriction to Preference. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3203-3208.	3.1	91
17	Chiral assembly of gold nanorods with collective plasmonic circular dichroism response. <i>Soft Matter</i> , 2011, 7, 8370.	2.7	84
18	Controllable Two-Stage Droplet Evaporation Method and Its Nanoparticle Self-Assembly Mechanism. <i>Langmuir</i> , 2013, 29, 6232-6241.	3.5	81

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19	Self-Assembly of Chiral Nanoparticles into Semiconductor Helices with Tunable near-Infrared Optical Activity. <i>Chemistry of Materials</i> , 2020, 32, 476-488.	6.7	79
20	Experimental Observation of Giant Chiroptical Amplification of Small Chiral Molecules by Gold Nanosphere Clusters. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9690-9695.	3.1	77
21	Self-Assembly of Gold Nanorods into Symmetric Superlattices Directed by OH-Terminated Hexa(ethylene glycol) Alkanethiol. <i>Langmuir</i> , 2011, 27, 11394-11400.	3.5	75
22	Inhibition of Cancer Cell Migration by Gold Nanorods: Molecular Mechanisms and Implications for Cancer Therapy. <i>Advanced Functional Materials</i> , 2014, 24, 6922-6932.	14.9	69
23	Revealing silver cytotoxicity using Au nanorods/Ag shell nanostructures: disrupting cell membrane and causing apoptosis through oxidative damage. <i>RSC Advances</i> , 2013, 3, 2296.	3.6	63
24	Stability of Ligands on Nanoparticles Regulating the Integrity of Biological Membranes at the Nano-Lipid Interface. <i>ACS Nano</i> , 2019, 13, 8680-8693.	14.6	59
25	Bottom-Up Synthesis of Helical Plasmonic Nanorods and Their Application in Generating Circularly Polarized Luminescence. <i>ACS Nano</i> , 2021, 15, 15114-15122.	14.6	54
26	Plasmonic Circular Dichroism of Gold Nanoparticle Based Nanostructures. <i>Advanced Optical Materials</i> , 2019, 7, 1801590.	7.3	46
27	Enhancing the plasmonic circular dichroism by entrapping chiral molecules at the core-shell interface of rod-shaped Au@Ag nanocrystals. <i>Chemical Communications</i> , 2016, 52, 2059-2062.	4.1	45
28	Symmetry control of nanorod superlattice driven by a governing force. <i>Nature Communications</i> , 2017, 8, 1410.	12.8	45
29	Plasmon-Enhanced Oxidase-Like Activity and Cellular Effect of Pd-Coated Gold Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45416-45426.	8.0	41
30	Fabrication of chiral plasmonic oligomers using cysteine-modified gold nanorods as monomers. <i>Nano Research</i> , 2014, 7, 1699-1705.	10.4	40
31	Using gold nanorods core/silver shell nanostructures as model material to probe biodistribution and toxic effects of silver nanoparticles in mice. <i>Nanotoxicology</i> , 2014, 8, 686-696.	3.0	38
32	Fabricating chiroptical starfruit-like Au nanoparticles via interface modulation of chiral thiols. <i>Nanoscale</i> , 2017, 9, 11093-11102.	5.6	34
33	Interference of Steroidogenesis by Gold Nanorod Core/Silver Shell Nanostructures: Implications for Reproductive Toxicity of Silver Nanomaterials. <i>Small</i> , 2017, 13, 1602855.	10.0	32
34	Gold Nanorod-Based Nanoplatfrom Catalyzes Constant NO Generation and Protects from Cardiovascular Injury. <i>ACS Nano</i> , 2020, 14, 12854-12865.	14.6	30
35	Photocontrollable Chiral Switching and Selection in Self-Assembled Plasmonic Nanostructure. <i>Advanced Functional Materials</i> , 2019, 29, 1900587.	14.9	26
36	Plasmonic circular dichroism in side-by-side oligomers of gold nanorods: the influence of chiral molecule location and interparticle distance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8187-8193.	2.8	25

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37	Heat-enhanced symmetry breaking in dynamic gold nanorod oligomers: the importance of interface control. <i>Nanoscale</i> , 2016, 8, 10030-10034.	5.6	20
38	Plasmonic polymers with strong chiroptical response for sensing molecular chirality. <i>Nanoscale</i> , 2015, 7, 10690-10698.	5.6	19
39	Thermo-triggered Release of CRISPR-Cas9 System by Lipid-Encapsulated Gold Nanoparticles for Tumor Therapy. <i>Angewandte Chemie</i> , 2018, 130, 1507-1512.	2.0	17
40	Bio-distribution and bio-availability of silver and gold in rat tissues with silver/gold nanorod administration. <i>RSC Advances</i> , 2018, 8, 12260-12268.	3.6	17
41	Initiation of protective autophagy in hepatocytes by gold nanorod core/silver shell nanostructures. <i>Nanoscale</i> , 2020, 12, 6429-6437.	5.6	17
42	Nonlinear Amplification of Chirality in Self-Assembled Plasmonic Nanostructures. <i>ACS Nano</i> , 2021, 15, 5715-5724.	14.6	17
43	A Novel Nanoprobe Based on Core-Shell Au@Pt@Mesoporous SiO <sub>2</sub> Nanozyme With Enhanced Activity and Stability for Mumps Virus Diagnosis. <i>Frontiers in Chemistry</i> , 2020, 8, 463.	3.6	16
44	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. <i>Nanoscale</i> , 2022, 14, 4690-4704.	5.6	15
45	Effects of noble metal nanoparticles on the hydroxyl radical scavenging ability of dietary antioxidants. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2018, 36, 84-97.	2.9	14
46	Unique role of non-mercapto groups in thiol-pinning-mediated Ag growth on Au nanoparticles. <i>Nano Research</i> , 2018, 11, 614-624.	10.4	13
47	Single-Dosed Genotoxicity Study of Gold Nanorod Core/Silver Shell Nanostructures by <i>Pig-a</i> , Micronucleus, and Comet Assays. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 1953-1964.	1.1	12
48	Aromatic thiol-modulated Ag overgrowth on gold nanoparticles: tracking the thiol's position in the core-shell nanoparticles. <i>Nanoscale</i> , 2019, 11, 17471-17477.	5.6	12
49	Spatiotemporal Tracing of the Cellular Internalization Process of Rod-Shaped Nanostructures. <i>ACS Nano</i> , 2022, 16, 4059-4071.	14.6	12
50	Cysteine-induced chiroptical activity in assemblies of gold nanorods and its use in ultrasensitive detection of copper ions. <i>RSC Advances</i> , 2014, 4, 45159-45162.	3.6	11
51	Recognition of chiral zwitterionic interactions at nanoscale interfaces by chiropasmonic nanosensors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21401-21406.	2.8	9
52	Depletion-Mediated Uniform Deposition of Nanorods with Patterned, Multiplexed Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49200-49209.	8.0	9
53	In vivo carcinogenicity study of silver nanoparticles in transgenic rasH2 mice by one single-dose intravenous administration. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	8
54	Temperature Effect of Plasmonic Circular Dichroism in Dynamic Oligomers of AuNR@Ag Nanorods Driven by Cysteine: The Role of Surface Atom Migration. <i>Advanced Optical Materials</i> , 2021, 9, 2001274.	7.3	8

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55	Constructing chiral gold nanorod oligomers using a spatially separated sergeants-and-soldiers effect. <i>Nanoscale</i> , 2021, 13, 9678-9685.	5.6	8
56	Plasmonic Nanosensors with Extraordinary Sensitivity to Molecularly Enantioselective Recognition at Nanoscale Interfaces. <i>ACS Nano</i> , 2021, 15, 19535-19545.	14.6	8
57	In Vivo Metabolic Response upon Exposure to Gold Nanorod Core/Silver Shell Nanostructures: Modulation of Inflammation and Upregulation of Dopamine. <i>International Journal of Molecular Sciences</i> , 2020, 21, 384.	4.1	7
58	4-Aminothiophenol-Modulated Ag Growth on Au Nanoparticles for Detection of Nitrite. <i>ACS Applied Nano Materials</i> , 2021, 4, 11674-11680.	5.0	5
59	The Bio-Persistence of Reversible Inflammatory, Histological Changes and Metabolic Profile Alterations in Rat Livers after Silver/Gold Nanorod Administration. <i>Nanomaterials</i> , 2021, 11, 2656.	4.1	4
60	Hollow Pt Nanocage@Mesoporous SiO <sub>2</sub> Nanoreactors as a Nanozyme for Colorimetric Immunoassays of Viral Diagnosis. <i>ACS Applied Nano Materials</i> , 2022, 5, 1553-1561.	5.0	4
61	Structure of polymer-capped gold nanorods binding to model phospholipid monolayers. <i>JPhys Materials</i> , 2021, 4, 034004.	4.2	2
62	Cancer Treatment: Inhibition of Cancer Cell Migration by Gold Nanorods: Molecular Mechanisms and Implications for Cancer Therapy ( <i>Adv. Funct. Mater.</i> 44/2014). <i>Advanced Functional Materials</i> , 2014, 24, 7064-7064.	14.9	0