

# Xiangyu Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,346  
citations

361413

20  
h-index

361022

35  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive and selective detection of copper (II) and mercury (II) ions by dye-coded silver nanoparticle-based SERS probes. <i>Biosensors and Bioelectronics</i> , 2013, 39, 82-87.	10.1	164
2	Oxygen-deficient metal oxides: Synthesis routes and applications in energy and environment. <i>Nano Research</i> , 2019, 12, 2150-2163.	10.4	86
3	Cell-free exosome-laden scaffolds for tissue repair. <i>Nanoscale</i> , 2021, 13, 8740-8750.	5.6	79
4	Understanding the photothermal effect of gold nanostars and nanorods for biomedical applications. <i>RSC Advances</i> , 2014, 4, 30375-30383.	3.6	76
5	A Sensitive and Stable Surface Plasmon Resonance Sensor Based on Monolayer Protected Silver Film. <i>Sensors</i> , 2017, 17, 2777.	3.8	64
6	Efficient one-pot synthesis of highly photoluminescent alkyl-functionalised silicon nanocrystals. <i>Chemical Communications</i> , 2011, 47, 4941.	4.1	60
7	Raman-encoded microbeads for spectral multiplexing with SERS detection. <i>RSC Advances</i> , 2015, 5, 13762-13767.	3.6	58
8	3D Bioprinting of Hydrogels for Cartilage Tissue Engineering. <i>Gels</i> , 2021, 7, 144.	4.5	50
9	A General Route to Efficient Functionalization of Silicon Quantum Dots for High-Performance Fluorescent Probes. <i>Small</i> , 2012, 8, 2430-2435.	10.0	47
10	A symmetrical optical waveguide based surface plasmon resonance biosensing system. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 91-96.	7.8	47
11	Microfluidic synthesis of QD-encoded PEGDA microspheres for suspension assay. <i>Journal of Materials Chemistry B</i> , 2016, 4, 482-488.	5.8	45
12	Facile Synthesis of pH-sensitive Germanium Nanocrystals with High Quantum Yield for Intracellular Acidic Compartment Imaging. <i>Small</i> , 2015, 11, 1954-1961.	10.0	34
13	Templated patterning of graphene oxide using self-assembled monolayers. <i>Carbon</i> , 2012, 50, 1083-1089.	10.3	30
14	Improved Surface Enhanced Raman Scattering for Nanostructured Silver on Porous Silicon for Ultrasensitive Determination of 2,4,6-Trinitrotoluene. <i>Analytical Letters</i> , 2014, 47, 833-842.	1.8	30
15	Micro-/nano-patterning of DNA and rapid readout with SERS tags. <i>Chemical Communications</i> , 2010, 46, 5292.	4.1	27
16	Dopamine coating as a general and facile route to biofunctionalization of superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles for magnetic separation of proteins. <i>RSC Advances</i> , 2014, 4, 6657.	3.6	26
17	An optical waveguide sensor based on mesoporous silica films with a comparison to surface plasmon resonance sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3400-3408.	7.8	26
18	Digital Concentration Readout of DNA by Absolute Quantification of Optically Countable Gold Nanorods. <i>Analytical Chemistry</i> , 2016, 88, 10994-11000.	6.5	24

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19	Magnetic bead-gold nanoparticle hybrids probe based on optically countable gold nanoparticles with dark-field microscope for T4 polynucleotide kinase activity assay. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111936.	10.1	22
20	Hydrophilicity Reinforced Adhesion of Anodic Alumina Oxide Template Films to Conducting Substrates for Facile Fabrication of Highly Ordered Nanorod Arrays. <i>Langmuir</i> , 2017, 33, 503-509.	3.5	20
21	Advances and prospects of triboelectric nanogenerator for self-powered system. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 233-255.	4.2	20
22	Optical waveguide sensor based on silica nanotube arrays for label-free biosensing. <i>Biosensors and Bioelectronics</i> , 2015, 67, 230-236.	10.1	18
23	Digital immunoassay of a prostate-specific antigen using gold nanorods and magnetic nanoparticles. <i>RSC Advances</i> , 2017, 7, 27595-27602.	3.6	17
24	Black ZrO <sub>2</sub> synthesized by molten lithium reduction strategy for photocatalytic hydrogen generation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4035-4042.	3.8	17
25	Hierarchical hydrophobic surfaces with controlled dual transition between rose petal effect and lotus effect via structure tailoring or chemical modification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 622, 126661.	4.7	17
26	Microfluidic generation of uniform quantum dot-encoded microbeads by gelation of alginate. <i>RSC Advances</i> , 2015, 5, 62706-62712.	3.6	16
27	Fabrication and optical sensing properties of mesoporous silica nanorod arrays. <i>RSC Advances</i> , 2015, 5, 90659-90666.	3.6	16
28	Improved Therapeutic Efficiency against Obesity through Transdermal Drug Delivery Using Microneedle Arrays. <i>Pharmaceutics</i> , 2021, 13, 827.	4.5	16
29	Formation of Highly Stable Self-Assembled Alkyl Phosphonic Acid Monolayers for the Functionalization of Titanium Surfaces and Protein Patterning. <i>Langmuir</i> , 2015, 31, 140-148.	3.5	15
30	Photochemical reactions of thiol-terminated self-assembled monolayers (SAMs) for micropatterning of gold nanoparticles and controlled surface functionality. <i>Applied Surface Science</i> , 2012, 258, 5153-5156.	6.1	14
31	Preparation and photolithography of self-assembled monolayers of 10-mercaptodecanylphosphonic acid on glass mediated by zirconium for protein patterning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 66-71.	5.0	14
32	Room temperature Mg reduction of TiO <sub>2</sub> : formation mechanism and application in photocatalysis. <i>Chemical Communications</i> , 2019, 55, 7675-7678.	4.1	13
33	Core-shell assay based aptasensor for sensitive and selective thrombin detection using dark-field microscopy. <i>Talanta</i> , 2018, 182, 348-353.	5.5	11
34	Surface modification of polystyrene microsphere using ozone treatment. <i>Ferroelectrics</i> , 2018, 530, 130-135.	0.6	10
35	A SiO <sub>2</sub> -coated nanoporous alumina membrane for stable label-free waveguide biosensing. <i>RSC Advances</i> , 2014, 4, 62987-62995.	3.6	9
36	Preparation, characterization and antibiotic properties of silver-silicon nanocomposites. <i>New Journal of Chemistry</i> , 2017, 41, 1313-1320.	2.8	9

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37	Intracellular Trafficking Network and Autophagy of PHBHHx Nanoparticles and their Implications for Drug Delivery. <i>Scientific Reports</i> , 2019, 9, 9585.	3.3	9
38	Stem Cell-Derived Nanovesicles: A Novel Cell-Free Therapy for Wound Healing. <i>Stem Cells International</i> , 2021, 2021, 1-14.	2.5	9
39	A Highly Accurate, Stretchable Touchpad for Robust, Linear, and Stable Tactile Feedback. <i>Advanced Materials Technologies</i> , 2020, 5, 1900864.	5.8	8
40	Systematic investigation of intracellular trafficking behavior of one-dimensional alumina nanotubes. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2043-2053.	5.8	7
41	Fabrication of Orderly Porous Anodic Alumina Optical Waveguide Sensor via Interface Hydrophilic Treatment for the Detection of Small and Large Molecules. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000622.	3.7	7
42	Controllable wet etching of porous anodic alumina toward highly ordered hierarchical interfaces. <i>Surface and Coatings Technology</i> , 2021, 412, 127016.	4.8	7
43	Promotion of Hair Regrowth by Transdermal Dissolvable Microneedles Loaded with Rapamycin and Epigallocatechin Gallate Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 1404.	4.5	7
44	Scattering measurement of single particle for highly sensitive homogeneous detection of DNA in serum. <i>Talanta</i> , 2018, 178, 545-551.	5.5	6
45	Crosstalk-Free, Stretching-Insensitive Sensor Based on Arch-Bridge Architecture for Tactile Mapping with Parallel Addressing Strategy toward Million-Scale-Pixels Processing. <i>Advanced Science</i> , 2021, 8, e2101876.	11.2	6
46	Challenges and emerging opportunities in transistor-based ultrathin electronics: design and fabrication for healthcare applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2450-2474.	5.5	6
47	Microscopic Differentiation of Plasmonic Nanoparticles for the Ratiometric Read-out of Target DNA. <i>Scientific Reports</i> , 2017, 7, 14742.	3.3	5
48	An aptasensor based on the microscopic enumeration of encoding gold nanoparticles for the detection of C-reactive protein. <i>RSC Advances</i> , 2019, 9, 34293-34298.	3.6	5
49	Digital triplex DNA assay based on plasmonic nanocrystals. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3657-3666.	3.7	4
50	Mode Transition of Droplet Formation in a Semi-3D Flow-Focusing Microfluidic Droplet System. <i>Micromachines</i> , 2018, 9, 139.	2.9	4
51	Aptamer-based biosensing through the mapping of encoding upconversion nanoparticles for sensitive CEA detection. <i>Analyst</i> , 2022, 147, 3350-3359.	3.5	4
52	Controlled Surface Enhanced Resonance Raman Scattering (SERRS) in Biological Environment. <i>Integrated Ferroelectrics</i> , 2013, 146, 88-98.	0.7	3
53	Generation of Size-controlled Poly (ethylene Glycol) Diacrylate Droplets via Semi-3-Dimensional Flow Focusing Microfluidic Devices. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1
54	Flexible Sensors: A Highly Accurate, Stretchable Touchpad for Robust, Linear, and Stable Tactile Feedback ( <i>Adv. Mater. Technol.</i> 4/2020). <i>Advanced Materials Technologies</i> , 2020, 5, 2070022.	5.8	1

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55	Angular-Based Mueller Matrix Polarimetry Parameters for Subwavelength Pore Size Differentiation. Frontiers in Physics, 2022, 10, .	2.1	0