

# Hong Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,713  
citations

331538

21  
h-index

289141

40  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of High Magnetization Fe <sub>3</sub> O <sub>4</sub> /Polystyrene/Silica Nanospheres via Combined Miniemulsion/Emulsion Polymerization. <i>Journal of the American Chemical Society</i> , 2006, 128, 15582-15583.	6.6	290
2	Nanooptics of Plasmonic Nanomatryoshkas: Shrinking the Size of a Core–Shell Junction to Subnanometer. <i>Nano Letters</i> , 2015, 15, 6419-6428.	4.5	119
3	Study of superparamagnetic nanoparticles as labels in the quantitative lateral flow immunoassay. <i>Materials Science and Engineering C</i> , 2009, 29, 714-718.	3.8	98
4	Ultrasensitive ELISA Using Enzyme-Loaded Nanospherical Brushes as Labels. <i>Analytical Chemistry</i> , 2014, 86, 9367-9371.	3.2	92
5	Development of lateral flow immunoassay system based on superparamagnetic nanobeads as labels for rapid quantitative detection of cardiac troponin I. <i>Materials Science and Engineering C</i> , 2009, 29, 702-707.	3.8	80
6	Preparation of hydrophilic magnetic nanospheres with high saturation magnetization. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 125-130.	1.0	69
7	Developing a hybrid emulsion polymerization system to synthesize Fe <sub>3</sub> O <sub>4</sub> /polystyrene latexes with narrow size distribution and high magnetite content. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5285-5295.	2.5	62
8	A facile route to the synthesis of spherical poly(acrylic acid) brushes via RAFT polymerization for high-capacity protein immobilization. <i>Journal of Colloid and Interface Science</i> , 2013, 398, 82-87.	5.0	60
9	Synthesis and Biomedical Applications of Poly((meth)acrylic acid) Brushes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14537-14551.	4.0	50
10	SLE non-coding genetic risk variant determines the epigenetic dysfunction of an immune cell specific enhancer that controls disease-critical microRNA expression. <i>Nature Communications</i> , 2021, 12, 135.	5.8	48
11	Three-Dimensional Barcodes with Ultrahigh Encoding Capacities: A Flexible, Accurate, and Reproducible Encoding Strategy for Suspension Arrays. <i>Chemistry of Materials</i> , 2017, 29, 10398-10408.	3.2	41
12	Combined Exosomal GPC1, CD82, and Serum CA19-9 as Multiplex Targets: A Specific, Sensitive, and Reproducible Detection Panel for the Diagnosis of Pancreatic Cancer. <i>Molecular Cancer Research</i> , 2020, 18, 300-310.	1.5	40
13	Covalent Immobilization of Proteins on 3D Poly(acrylic acid) Brushes: Mechanism Study and a More Effective and Controllable Process. <i>Bioconjugate Chemistry</i> , 2014, 25, 370-378.	1.8	39
14	Dual-Encoded Microbeads through a Host–Guest Structure: Enormous, Flexible, and Accurate Barcodes for Multiplexed Assays. <i>Advanced Functional Materials</i> , 2016, 26, 6146-6157.	7.8	39
15	Plasma biomarker profiles and the correlation with cognitive function across the clinical spectrum of Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 123.	3.0	39
16	Development of a Stable Dual Functional Coating with Low Non-specific Protein Adsorption and High Sensitivity for New Superparamagnetic Nanospheres. <i>Langmuir</i> , 2011, 27, 13669-13674.	1.6	34
17	Photothermal effects and toxicity of Fe <sub>3</sub> O <sub>4</sub> nanoparticles via near infrared laser irradiation for cancer therapy. <i>Materials Science and Engineering C</i> , 2015, 46, 97-102.	3.8	33
18	A magnetic bead-mediated selective adsorption strategy for extracellular vesicle separation and purification. <i>Acta Biomaterialia</i> , 2021, 124, 336-347.	4.1	26

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19	Breaking through the Poisson Distribution: A compact high-efficiency droplet microfluidic system for single-bead encapsulation and digital immunoassay detection. <i>Biosensors and Bioelectronics</i> , 2022, 211, 114384.	5.3	25
20	Encoding through the host-guest structure: construction of multiplexed fluorescent beads. <i>Chemical Communications</i> , 2014, 50, 14041-14044.	2.2	22
21	Functional short-chain zwitterion coated silica nanoparticles with antifouling property in protein solutions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 251-256.	2.5	22
22	Platelets induce endothelial-mesenchymal transition and subsequent fibrogenesis in endometriosis. <i>Reproductive BioMedicine Online</i> , 2020, 41, 500-517.	1.1	22
23	Controllable preparation of epoxy-functionalized magnetic polymer latexes with different morphologies by modified miniemulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2284-2293.	2.5	21
24	Development of a Plasma Biomarker Diagnostic Model Incorporating Ultrasensitive Digital Immunoassay as a Screening Strategy for Alzheimer Disease in a Chinese Population. <i>Clinical Chemistry</i> , 2021, 67, 1628-1639.	1.5	20
25	Plasmonic rod-in-shell nanoparticles for photothermal therapy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12275-12281.	1.3	19
26	Expressions of natural cytotoxicity receptor, NKG2D and NKG2D ligands in endometriosis. <i>Journal of Reproductive Immunology</i> , 2019, 136, 102615.	0.8	16
27	Lupus enhancer risk variant causes dysregulation of IRF8 through cooperative lncRNA and DNA methylation machinery. <i>Nature Communications</i> , 2022, 13, 1855.	5.8	16
28	Improving SERS uniformity by isolating hot spots in gold rod-in-shell nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	14
29	Ultrabright dye-loaded spherical polyelectrolyte brushes and their fundamental structure-fluorescence tuning principles. <i>Nanoscale</i> , 2019, 11, 14050-14059.	2.8	14
30	Multiplexed Luminescence Oxygen Channeling Immunoassay Based on Dual-Functional Barcodes with a Host-Guest Structure: A Facile and Robust Suspension Array Platform. <i>Small</i> , 2020, 16, e1907521.	5.2	14
31	Landscape of the RBD-specific IgG, IgM, and IgA responses triggered by the inactivated virus vaccine against the Omicron variant. <i>Cell Discovery</i> , 2022, 8, 15.	3.1	14
32	Polymers mediate a one-pot route for functionalized quantum dot barcodes with a large encoding capacity. <i>Nanoscale</i> , 2018, 10, 12461-12471.	2.8	13
33	Precisely Encoded Barcodes through the Structure-Fluorescence Combinational Strategy: A Flexible, Robust, and Versatile Multiplexed Biodetection Platform with Ultrahigh Encoding Capacities. <i>Small</i> , 2021, 17, e2100315.	5.2	13
34	A facile polymer mediated dye incorporation method for fluorescence encoded microbeads with large encoding capacities. <i>Chemical Communications</i> , 2021, 57, 4548-4551.	2.2	13
35	Design and preparation of bi-functionalized short-chain modified zwitterionic nanoparticles. <i>Acta Biomaterialia</i> , 2018, 72, 239-247.	4.1	12
36	Size-dependent optical properties of conjugated polymer nanoparticles. <i>RSC Advances</i> , 2017, 7, 55957-55965.	1.7	11

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37	Influence of the physical and chemical properties of magnetic nanoparticles on their performance in a chemiluminescence immunoassay. <i>Clinical Biochemistry</i> , 2014, 47, 220-226.	0.8	10
38	Determination of the affinity constant of streptavidin-coupled magnetic particles and a biotinylated antibody for high performance of magnetic solid carrier in immunoassays. <i>Materials Science and Engineering C</i> , 2014, 34, 422-428.	3.8	10
39	Quantification of surface-anchored RAFT chain transfer agent on silica particles. <i>Applied Surface Science</i> , 2014, 300, 104-110.	3.1	10
40	Improvement of Protein Immobilization and Bioactivity of Magnetic Carriers Using a Brushed Beads-on-Beads Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24390-24395.	4.0	9
41	Strategy to prevent cardiac toxicity induced by polyacrylic acid decorated iron MRI contrast agent and investigation of its mechanism. <i>Biomaterials</i> , 2019, 222, 119442.	5.7	9
42	Droplets isolated array: A universal platform of delaying molecule cross-contamination between microdroplets for digital enzyme-based immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128716.	4.0	9
43	A micro-chamber free digital biodetection method via the "sphere-labeled-sphere" strategy. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129794.	4.0	8
44	Fractal analysis of polypropylene composite filled with nano-calcium carbonate. <i>Journal of Applied Polymer Science</i> , 2008, 110, 1955-1960.	1.3	7
45	A facile, one-step method for the determination of accessible surface primary amino groups on solid carriers. <i>Surface and Interface Analysis</i> , 2012, 44, 1309-1313.	0.8	7
46	Determination of the Binding Constant between Oligonucleotide-Coupled Magnetic Microspheres and Target DNA. <i>ACS Omega</i> , 2019, 4, 6931-6938.	1.6	7
47	A noise-free, ultrasensitive and accurate miRNAs detection using streptavidin coated magnetic microsphere based stem-loop ligation PCR. <i>Talanta</i> , 2020, 213, 120845.	2.9	7
48	Multiplexed digital ELISA in picoliter droplets based on enzyme signal amplification block and precisely decoding strategy: A universal and practical biodetection platform. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132214.	4.0	7
49	In-vitro depth-dependent hyperthermia of human mammary gland adenocarcinoma. <i>Materials Science and Engineering C</i> , 2016, 69, 12-16.	3.8	6
50	Solid-phase PCR based on thermostable, encoded magnetic microspheres for simple, highly sensitive and multiplexed nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126953.	4.0	6
51	A tailored LNA clamping design principle: Efficient, economized, specific and ultrasensitive for the detection of point mutations. <i>Biotechnology Journal</i> , 2021, 16, e2100233.	1.8	6
52	The interaction of GSSG modified magnetic nanoparticles with SPC-A1 cells in vitro. <i>Science Bulletin</i> , 2012, 57, 3525-3531.	1.7	5
53	Micro-Droplet Detection Method for Measuring the Concentration of Alkaline Phosphatase-Labeled Nanoparticles in Fluorescence Microscopy. <i>Sensors</i> , 2017, 17, 2685.	2.1	5
54	A Homogeneous Immunoassay Method for Detecting Interferon-Gamma in Patients with Latent Tuberculosis Infection. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 588-595.	0.9	5

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55	Construction of macroinitiators labeled magnetic spheres as a notable signal amplification system for biosensing. <i>Materials Letters</i> , 2021, 287, 129287.	1.3	4
56	The Evaluation of Ovarian Function Recovery Following Treatment of Primary Ovarian Insufficiency: A Systematic Review. <i>Frontiers in Endocrinology</i> , 2022, 13, 855992.	1.5	4
57	A spherical poly(acrylic acid) brush-enzyme block with high catalytic capacity for signal amplification in digital biological assays. <i>RSC Advances</i> , 2019, 9, 23658-23665.	1.7	3
58	Evolution of On-Barcode-Luminescence Oxygen Channeling Immunoassay by Exploring the Barcode Structure and the Assay System. <i>ACS Omega</i> , 2022, 7, 2344-2355.	1.6	3
59	Relationship between surface structure and morphology of Fe <sub>3</sub> O <sub>4</sub> /silica composite nanospheres and nucleic acid extraction. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1485-1489.	1.0	1
60	Improvement of immunoassay detection sensitivity by using well-defined raspberry-like magnetic microbeads as carriers. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2014, 19, 538-543.	0.5	1
61	Progress of optically encoded microspheres for multiplexed assays. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2014, 19, 521-530.	0.5	1
62	Point-of-Care Diagnostics: Multiplexed Luminescence Oxygen Channeling Immunoassay Based on Dual-Functional Barcodes with a Host-Guest Structure: A Facile and Robust Suspension Array Platform ( <i>Small</i> 17/2020). <i>Small</i> , 2020, 16, 2070096.	5.2	0
63	Multiplexed Detection: Precisely Encoded Barcodes through the Structure-Fluorescence Combinational Strategy: A Flexible, Robust, and Versatile Multiplexed Biodetection Platform with Ultrahigh Encoding Capacities ( <i>Small</i> 19/2021). <i>Small</i> , 2021, 17, 2170090.	5.2	0
64	Plasma biomarker profiles and the association with cognitive function across the clinical spectrum of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0