

# Hongxia Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8330405/publications.pdf>

Version: 2024-02-01

78  
papers

1,803  
citations

236925

25  
h-index

330143

37  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2299  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of vascular endothelial growth factor based on rolling circle amplification as a means of signal enhancement in surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2014, 61, 83-87.	10.1	86
2	Fe <sub>3</sub> O <sub>4</sub> @Au nanoparticles as a means of signal enhancement in surface plasmon resonance spectroscopy for thrombin detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 505-511.	7.8	70
3	Potassium ion sensing using a self-assembled calix[4]crown monolayer by surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 577-581.	7.8	63
4	Surface plasmon resonance spectroscopic characterization of antibody orientation and activity on the calixarene monolayer. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 548-553.	7.8	60
5	Sensitive cell apoptosis assay based on caspase-3 activity detection with graphene oxide-assisted electrochemical signal amplification. <i>Biosensors and Bioelectronics</i> , 2015, 68, 777-782.	10.1	60
6	Label-free surface plasmon resonance cytosensor for breast cancer cell detection based on nano-conjugation of monodisperse magnetic nanoparticle and folic acid. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 433-438.	7.8	59
7	<i>Lycium chinense</i> leaves extract ameliorates diabetic nephropathy by suppressing hyperglycemia mediated renal oxidative stress and inflammation. <i>Biomedicine and Pharmacotherapy</i> , 2018, 102, 1145-1151.	5.6	57
8	Ultrasensitive immunosensing of tuberculosis CFP-10 based on SPR spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 271-275.	7.8	46
9	Fabrication of a protease sensor for caspase-3 activity detection based on surface plasmon resonance. <i>Analyst</i> , 2013, 138, 5757.	3.5	46
10	Analyte induced AuNPs aggregation enhanced surface plasmon resonance for sensitive detection of paraquat. <i>Biosensors and Bioelectronics</i> , 2018, 117, 605-612.	10.1	46
11	Colorimetric copper(II) ion sensor based on the conformational change of peptide immobilized onto the surface of gold nanoparticles. <i>Analytical Methods</i> , 2014, 6, 2580-2585.	2.7	44
12	Magneto-plasmonic nanoparticles enhanced surface plasmon resonance TB sensor based on recombinant gold binding antibody. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 356-363.	7.8	43
13	Rapid and sensitive detection of PD-L1 exosomes using Cu-TCPP 2D MOF as a SPR sensitizer. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113954.	10.1	43
14	A cytosensor based on NiO nanoparticle-enhanced surface plasmon resonance for detection of the breast cancer cell line MCF-7. <i>Mikrochimica Acta</i> , 2016, 183, 683-688.	5.0	42
15	Sensitive colorimetric assays for $\alpha$ -glucosidase activity and inhibitor screening based on unmodified gold nanoparticles. <i>Analytica Chimica Acta</i> , 2015, 875, 92-98.	5.4	40
16	<i>Lycium chinensis</i> Mill attenuates glutamate induced oxidative toxicity in PC12 cells by increasing antioxidant defense enzymes and down regulating ROS and Ca <sup>2+</sup> generation. <i>Neuroscience Letters</i> , 2016, 616, 111-118.	2.1	33
17	Analyte-resolved magnetoplasmonic nanocomposite to enhance SPR signals and dual recognition strategy for detection of BNP in serum samples. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111440.	10.1	33
18	Effect of the Polyphenol Rich Ethyl Acetate Fraction from the Leaves of <i>Lycium chinense</i> Mill. on Oxidative Stress, Dyslipidemia, and Diabetes Mellitus in Streptozotocin-Nicotinamide Induced Diabetic Rats. <i>Chemistry and Biodiversity</i> , 2017, 14, e1700277.	2.1	32

#	ARTICLE	IF	CITATIONS
19	Molecular Recognition of Arginine by Supramolecular Complexation with Calixarene Crown Ether Based on Surface Plasmon Resonance. <i>International Journal of Molecular Sciences</i> , 2011, 12, 2315-2324.	4.1	31
20	A simple and direct SPR platform combining three-in-one multifunctional peptides for ultra-sensitive detection of PD-L1 exosomes. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130496.	7.8	31
21	Neuroprotective effect of trans-N-caffeoyltyramine from <i>Lycium chinense</i> against H <sub>2</sub> O <sub>2</sub> induced cytotoxicity in PC12 cells by attenuating oxidative stress. <i>Biomedicine and Pharmacotherapy</i> , 2017, 93, 895-902.	5.6	28
22	Evaluation of the Anti-diabetic Activity of Polysaccharide from <i>Cordyceps cicadae</i> in Experimental Diabetic Rats. <i>Chemistry and Biodiversity</i> , 2018, 15, e1800219.	2.1	27
23	Self-assembled RNAi nanoflowers via rolling circle transcription for aptamer-targeted siRNA delivery. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4638-4644.	5.8	27
24	High specific detection of osteopontin using a three-dimensional copolymer layer support based on electrochemical impedance spectroscopy. <i>Analyst</i> , 2014, 139, 4476-4481.	3.5	26
25	A label-free impedimetric sensor for the detection of an amphetamine-type derivative based on cucurbit[7]uril-mediated three-dimensional AuNPs. <i>Electrochemistry Communications</i> , 2019, 100, 126-133.	4.7	26
26	Triple-enhanced surface plasmon resonance spectroscopy based on cell membrane and folic acid functionalized gold nanoparticles for dual-selective circulating tumor cell sensing. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127543.	7.8	26
27	Sensitive detection of tuberculosis using nanoparticle-enhanced surface plasmon resonance. <i>Mikrochimica Acta</i> , 2013, 180, 431-436.	5.0	25
28	Visual determination of aliphatic diamines based on host-guest recognition of calix[4]arene derivatives capped gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2015, 72, 306-312.	10.1	25
29	One dimensional magneto-optical nanocomplex from silver nanoclusters and magnetite nanorods containing ordered mesocages for sensitive detection of PD-L1. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113385.	10.1	24
30	Comparative Study of Protein Immobilization Properties on Calixarene Monolayers. <i>Sensors</i> , 2007, 7, 1091-1107.	3.8	22
31	Sensitive detection of copper(II) ions based on the conformational change of peptides by surface plasmon resonance spectroscopy. <i>Analytical Methods</i> , 2015, 7, 8942-8946.	2.7	22
32	Sensitive detection of fractalkine based on AuNPs and metal-organic frameworks composite at para-sulfonatocalix[4]arene-AuNPs assembled multilayer interface. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 150-157.	7.8	22
33	Preparation of Ag-Fe-decorated single-walled carbon nanotubes by arc discharge and their antibacterial effect. <i>Journal of Materials Science</i> , 2012, 47, 6086-6094.	3.7	21
34	Fabrication of Calix[4]arene Derivative Monolayers to Control Orientation of Antibody Immobilization. <i>International Journal of Molecular Sciences</i> , 2014, 15, 5496-5507.	4.1	21
35	Anti-Ulcerogenic Properties of <i>Lycium chinense</i> Mill Extracts against Ethanol-Induced Acute Gastric Lesion in Animal Models and Its Active Constituents. <i>Molecules</i> , 2015, 20, 22553-22564.	3.8	20
36	CB[7]-mediated signal amplification approach for sensitive surface plasmon resonance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2016, 81, 207-213.	10.1	20

#	ARTICLE	IF	CITATIONS
37	Guests involved CB[8] capped silver nanoparticles as a means of electrochemical signal enhancement for sensitive detection of Caspase-3. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 54-59.	7.8	20
38	Synergistically catalytic nanozymes based on heme-protein active site model for dual-signal and ultrasensitive detection of H <sub>2</sub> O <sub>2</sub> in living cells. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129564.	7.8	20
39	Specific intracellular binding peptide as sPD-L1 antibody mimic: Robust binding capacity and intracellular region specific modulation upon applied to sensing research. <i>Biosensors and Bioelectronics</i> , 2021, 185, 113269.	10.1	20
40	Magnetic field-aligned Fe <sub>3</sub> O <sub>4</sub> -coated silver magnetoplasmonic nanochain with enhanced sensitivity for detection of Siglec-15. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113448.	10.1	20
41	Sensitive and selective determination of caspase-3 based on calixarene functionalized reduction of graphene oxide assisted signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 357-365.	7.8	19
42	Enhancement of BSA Binding on Au Surfaces by calix[4]bisazacrown Monolayer. <i>Sensors</i> , 2007, 7, 2263-2272.	3.8	18
43	Signal amplification and dual recognition strategy for small-molecule detection by surface plasmon resonance based on calix[4]arene crown ether-modified gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 160-167.	7.8	18
44	Pyridinium porphyrins and AuNPs mediated bionetworks as SPR signal amplification tags for the ultrasensitive assay of brain natriuretic peptide. <i>Mikrochimica Acta</i> , 2020, 187, 327.	5.0	18
45	Copper metal organic framework as natural oxidase mimic for effective killing of Gram-negative and Gram-positive bacteria. <i>Nanoscale</i> , 2022, 14, 9474-9484.	5.6	18
46	Magnetic gold nanocomposite and aptamer assisted triple recognition electrochemical immunoassay for determination of brain natriuretic peptide. <i>Mikrochimica Acta</i> , 2020, 187, 231.	5.0	17
47	Aptamer-Assisted Protein Orientation on Silver Magnetic Nanoparticles: Application to Sensitive Leukocyte Cell-Derived Chemotaxin 2 Surface Plasmon Resonance Sensors. <i>Analytical Chemistry</i> , 2022, 94, 2109-2118.	6.5	16
48	Building a novel vitronectin assay by immobilization of integrin on calixarene monolayer. <i>Talanta</i> , 2007, 75, 99-103.	5.5	14
49	para-Sulfonatocalix[4]arene stabilized gold nanoparticles multilayers interfaced to electrodes through host-guest interaction for sensitive ErbB2 detection. <i>Biosensors and Bioelectronics</i> , 2018, 99, 375-381.	10.1	14
50	Comparative SPR study on the effect of nanomaterials on the biological activity of adsorbed proteins. <i>Mikrochimica Acta</i> , 2012, 178, 301-307.	5.0	13
51	Cell membrane-coated gold nanoparticles for apoptosis imaging in living cells based on fluorescent determination. <i>Mikrochimica Acta</i> , 2020, 187, 175.	5.0	13
52	Development of surface plasmon resonance immunosensor for the novel protein immunostimulating factor. <i>Mikrochimica Acta</i> , 2011, 172, 171-176.	5.0	12
53	Building a sensitive immunosensing platform based on oriented immobilization of histidine-tagged antibody on NiO-decorated SWNTs. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 38-43.	7.8	12
54	Thionine mediated para-sulfonatocalix[4]arene capped AuNPs multilayers for sensitive electrochemical detection of acetylcholinesterase activity. <i>Electrochimica Acta</i> , 2018, 267, 206-212.	5.2	12

#	ARTICLE	IF	CITATIONS
55	A facile gold nanoparticles embeded hydrogel for non-enzymatic sensing of glucose. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110404.	5.0	12
56	AuNPs network structures as a plasmonic matrix for ultrasensitive immunoassay based on surface plasmon resonance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129948.	7.8	12
57	Surface plasmon resonance spectroscopic chiral discrimination using self-assembled leucine derivative monolayer. <i>Talanta</i> , 2008, 76, 49-53.	5.5	11
58	The colorimetric assay of diamine oxidase activity with high sensitivity based on calixarene derivative-capped gold nanoparticles. <i>Analytical Methods</i> , 2017, 9, 2153-2158.	2.7	11
59	Colorimetric assay of butyrylcholinesterase activity based on para-sulfonatocalix[4]arene-modified gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 869-876.	7.8	11
60	Colorimetric detection of sulfamethazine based on target resolved calixarene derivative stabilized gold nanoparticles aggregation. <i>Mikrochimica Acta</i> , 2022, 189, 71.	5.0	10
61	The magnetic-nanoparticle-assisted sensitive detection of nitrated $\beta$ -syn in blood based on a sensitizing electrochemical layer. <i>Nanoscale</i> , 2021, 13, 8107-8117.	5.6	9
62	A surface plasmon resonance study on the optical properties of gold nanoparticles on thin gold films. <i>Mikrochimica Acta</i> , 2011, 172, 489-494.	5.0	8
63	Surface plasmon resonance sensor for norepinephrine using a monolayer of a calix[4]arene crown ether. <i>Mikrochimica Acta</i> , 2015, 182, 1757-1763.	5.0	8
64	Inorganic and Metal-Organic Nanocomposites for Cascade-Responsive Imaging and Photochemical Synergistic Effects. <i>Inorganic Chemistry</i> , 2020, 59, 4617-4625.	4.0	8
65	MOFs supported nanonetworks hybrid flower-like catalysts via supramolecular-mediated cascade self-assembly for sensitive sensing of H <sub>2</sub> O <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 130076.	7.8	8
66	In situ vertical alignment of 2D MoS <sub>2</sub> layers on GO film: enhanced electrochemical properties for PD-L1 sensing. <i>Mikrochimica Acta</i> , 2022, 189, 155.	5.0	8
67	A facile and effective immunoassay for sensitive detection of phosphorylated tau: The role of flower-shaped TiO <sub>2</sub> in specificity and signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 132015.	7.8	7
68	Ammonium Ion Optical Sensor Formation and Characterization of a Self-Assembled Thiazole Containing Dibenzo[1.8]Crown[6] Monolayer toward Developing Ammonium Ion Sensing Interface. <i>Analytical Letters</i> , 2007, 40, 3373-3382.	1.8	6
69	Natural receptor-based competitive immuno-electrochemical assay for ultra-sensitive detection of Siglec 15. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111950.	10.1	6
70	Electrochemical sensor for ultrasensitive detection of paraquat based on metal-organic frameworks and para-sulfonatocalix[4]arene-AuNPs composite. <i>Chemosphere</i> , 2022, 307, 135570.	8.2	6
71	Regulation of MAP4K4 gene expression by RNA interference through an engineered theophylline-dependent hepatitis delta virus ribozyme switch. <i>Molecular BioSystems</i> , 2016, 12, 3370-3376.	2.9	5
72	Self-Assembled Fabrication of Water-Soluble Porphyrin Mediated Supramolecule-Gold Nanoparticle Networks and Their Application in Selective Sensing. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2662-2669.	3.2	4

#	ARTICLE	IF	CITATIONS
73	Cucurbit[7]urils induced bimetallic nanoparticles network for ultra-sensitive detection of Caspase-3 based on surface plasmon resonance. <i>Microchemical Journal</i> , 2021, 171, 106792.	4.5	3
74	Current methods and emerging approaches for detection of programmed death ligand 1. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114179.	10.1	3
75	Calix[4]arene crown ether as an oriented linker for highly sensitive detection of zinc ions using a peptide probe. <i>Analytical Methods</i> , 2016, 8, 3959-3965.	2.7	2
76	Supramolecule Stripped MoS <sub>2</sub> Nanosheets for Enhanced Surface Plasmon Resonance Spectroscopy Application. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2402-2409.	3.2	2
77	Immobilization for Lipase: Enhanced Activity and Stability by Flexible Combination and Solid Support. <i>Applied Biochemistry and Biotechnology</i> , 0, , .	2.9	1
78	Multifunctional Peptides Modified Conductive Nano-Network Based on GO and Gold Nano Triangular: Sensitive Detection of PD-L1 Exosomes in Serum. <i>Journal of the Electrochemical Society</i> , 2022, 169, 076505.	2.9	1