

# Yuzhong Zhang

## List of Publications by Year in descending order

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53  
papers

1,684  
citations

257101

24  
h-index

288905

40  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of dopamine in the presence of ascorbic acid by poly(styrene sulfonic acid) sodium salt/single-wall carbon nanotube film modified glassy carbon electrode. <i>Analytical Biochemistry</i> , 2006, 350, 285-291.	1.1	110
2	Electrochemical DNA biosensor based on silver nanoparticles/poly(3-(3-pyridyl) acrylic acid)/carbon nanotubes modified electrode. <i>Analytical Biochemistry</i> , 2009, 387, 13-19.	1.1	106
3	RNA aptamer-based electrochemical aptasensor for C-reactive protein detection using functionalized silica microspheres as immunoprobes. <i>Biosensors and Bioelectronics</i> , 2017, 95, 100-105.	5.3	97
4	A Novel Functionalized Single-Wall Carbon Nanotube Modified Electrode and Its Application in Determination of Dopamine and Uric Acid in the Presence of High Concentrations of Ascorbic Acid. <i>Electroanalysis</i> , 2007, 19, 1695-1701.	1.5	90
5	An electrochemical DNA biosensor based on gold nanorods decorated graphene oxide sheets for sensing platform. <i>Analytical Biochemistry</i> , 2013, 443, 117-123.	1.1	83
6	An ultrasensitive supersandwich electrochemical DNA biosensor based on gold nanoparticles decorated reduced graphene oxide. <i>Analytical Biochemistry</i> , 2015, 469, 71-75.	1.1	75
7	Label-free electrochemical immunosensor for the carcinoembryonic antigen using a glassy carbon electrode modified with electrodeposited Prussian Blue, a graphene and carbon nanotube assembly and an antibody immobilized on gold nanoparticles. <i>Mikrochimica Acta</i> , 2013, 180, 767-774.	2.5	70
8	Ultrasensitive Multiplexed Immunoassay for Tumor Biomarkers Based on DNA Hybridization Chain Reaction Amplifying Signal. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6898-6904.	4.0	70
9	A sensitive DNA biosensor fabricated with gold nanoparticles/poly (p-aminobenzoic acid)/carbon nanotubes modified electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 179-185.	2.5	63
10	An improved DNA biosensor built by layer-by-layer covalent attachment of multi-walled carbon nanotubes and gold nanoparticles. <i>Electrochimica Acta</i> , 2009, 54, 2385-2391.	2.6	61
11	A Novel Electrochemical DNA Biosensor Fabricated with Layer-by-Layer Covalent Attachment of Multiwalled Carbon Nanotubes and Gold Nanoparticles. <i>Electroanalysis</i> , 2008, 20, 1220-1226.	1.5	60
12	Dual signal amplification of horseradish peroxidase functionalized nanocomposite as trace label for the electrochemical detection of carcinoembryonic antigen. <i>Electrochimica Acta</i> , 2014, 127, 334-341.	2.6	51
13	Fabrication of chronocoulometric DNA sensor based on gold nanoparticles/poly(L-lysine) modified glassy carbon electrode. <i>Analytical Biochemistry</i> , 2010, 396, 304-309.	1.1	47
14	Simultaneous electrochemical detection of multiple biomarkers using gold nanoparticles decorated multiwall carbon nanotubes as signal enhancers. <i>Analytical Biochemistry</i> , 2015, 482, 48-54.	1.1	46
15	Label-free electrochemical DNA biosensor based on a glassy carbon electrode modified with gold nanoparticles, polythionine, and graphene. <i>Mikrochimica Acta</i> , 2012, 176, 463-470.	2.5	43
16	Electrochemical detection of C-reactive protein using Copper nanoparticles and hybridization chain reaction amplifying signal. <i>Analytical Biochemistry</i> , 2017, 539, 1-7.	1.1	42
17	Horseradish peroxidase functionalized gold nanorods as a label for sensitive electrochemical detection of alpha-fetoprotein antigen. <i>Analytical Biochemistry</i> , 2015, 491, 58-64.	1.1	39
18	Fabrication of a Sensitive Impedance Biosensor of DNA Hybridization Based on Gold Nanoparticles Modified Gold Electrode. <i>Electroanalysis</i> , 2008, 20, 2127-2133.	1.5	37

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19	Simultaneous detection of two tumor markers using silver and gold nanoparticles decorated carbon nanospheres as labels. <i>Analytical Biochemistry</i> , 2016, 505, 59-65.	1.1	37
20	Chronocoulometric DNA biosensor based on a glassy carbon electrode modified with gold nanoparticles, poly(dopamine) and carbon nanotubes. <i>Mikrochimica Acta</i> , 2013, 180, 101-108.	2.5	35
21	Ultrasensitive electrochemical supersandwich DNA biosensor using a glassy carbon electrode modified with gold particle-decorated sheets of graphene oxide. <i>Mikrochimica Acta</i> , 2014, 181, 935-940.	2.5	32
22	Electrochemical behavior of adriamycin at an electrode modified with silver nanoparticles and multi-walled carbon nanotubes, and its application. <i>Mikrochimica Acta</i> , 2010, 169, 161-165.	2.5	27
23	Ultrasensitive non enzymatic multiple immunosensor for tumor markers detection by coupling DNA hybridization chain reaction with intercalated molecules. <i>Biosensors and Bioelectronics</i> , 2017, 90, 159-165.	5.3	26
24	Label-Free Electrochemical DNA Sensor Based on Gold Nanoparticles/Poly(neutral red) Modified Electrode. <i>Electroanalysis</i> , 2010, 22, 673-679.	1.5	25
25	An ultrasensitive electrochemical mercury(ii) ion biosensor based on a glassy carbon electrode modified with multi-walled carbon nanotubes and gold nanoparticles. <i>Analytical Methods</i> , 2012, 4, 3326.	1.3	24
26	Simultaneous electrochemical immunosensing of alpha-fetoprotein and prostate specific antigen using a glassy carbon electrode modified with gold nanoparticle-coated silica nanospheres and decorated with Azure A or ferrocenecarboxylic acid. <i>Mikrochimica Acta</i> , 2015, 182, 2435-2442.	2.5	22
27	Ultra-sensitive biosensor for K-ras gene detection using enzyme capped gold nanoparticles conjugates for signal amplification. <i>Analytical Biochemistry</i> , 2014, 460, 47-53.	1.1	21
28	An electrochemical immunosensor for prostate specific antigen using nitrogen-doped graphene as a sensing platform. <i>Analytical Methods</i> , 2019, 11, 2183-2189.	1.3	21
29	Molecular beacon based biosensor for the sequence-specific detection of DNA using DNA-capped gold nanoparticles-streptavidin conjugates for signal amplification. <i>Mikrochimica Acta</i> , 2013, 180, 1271-1277.	2.5	20
30	Poly (3-(3-Pyridyl) Acrylic Acid) Modified Glassy Carbon Electrode for Simultaneous Determination of Dopamine, Ascorbic Acid and Uric Acid. <i>Annali Di Chimica</i> , 2007, 97, 665-674.	0.6	16
31	Visual sensing of Hg <sup>2+</sup> using unmodified Au@Ag core-shell nanoparticles. <i>Journal of Nanostructure in Chemistry</i> , 2014, 4, 1.	5.3	16
32	Poly (O-aminobenzoic acid) modified glassy carbon electrode for electrochemical detection of dopamine in the presence of ascorbic acid. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 23.	3.0	15
33	Simultaneous Voltammetric Detection of Salsolinol and Uric Acid in the Presence of High Concentration of Ascorbic Acid with Gold Nanoparticles/Functionalized Multiwalled Carbon Nanotubes Composite Film Modified Electrode. <i>Electroanalysis</i> , 2009, 21, 2607-2610.	1.5	15
34	DNA concatemer-silver nanoparticles as a signal probe for electrochemical prostate-specific antigen detection. <i>Analyst</i> , 2019, 144, 6313-6320.	1.7	15
35	Electrochemical detection of two tumor markers based on functionalized polypyrrole microspheres as immunoprobes. <i>RSC Advances</i> , 2016, 6, 31448-31453.	1.7	14
36	Acid-Controlled Access to $\beta$ -Sulfonyl Ketones and $\alpha,\beta$ -Disulfonyl Ketones by Pummerer Reaction of $\beta$ -Keto Sulfones and Sulfoxides. <i>Journal of Organic Chemistry</i> , 2020, 85, 691-701.	1.7	13

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37	Fabrication of a Sensitive Electrochemical Biosensor for Detection of DNA Hybridization Based on Gold Nanoparticles/CuO Nanospindles Modified Glassy Carbon Electrode. <i>Chinese Journal of Chemistry</i> , 2012, 30, 167-172.	2.6	11
38	Simultaneous fluoroimmunoassay of two tumor markers based on CdTe quantum dots and gold nanocluster coated-silica nanospheres as labels. <i>RSC Advances</i> , 2015, 5, 105992-105998.	1.7	11
39	Electrochemical detection of microRNA-21 based on a Au nanoparticle functionalized g-C <sub>3</sub> N <sub>4</sub> nanosheet nanohybrid as a sensing platform and a hybridization chain reaction amplification strategy. <i>Analyst</i> , The, 2021, 146, 2886-2893.	1.7	11
40	DNA-templated copper nanoparticles as signalling probe for electrochemical determination of microRNA-222. <i>Mikrochimica Acta</i> , 2020, 187, 4.	2.5	10
41	Platinum Janus Nanoparticles as Peroxidase Mimics for Catalytic Immunosorbent Assay. <i>ACS Applied Nano Materials</i> , 2022, 5, 1397-1407.	2.4	9
42	Determination of Dopamine in the Presence of Ascorbic Acid Using a Poly(Amidosulfonic Acid) Modified Glassy Carbon Electrode. <i>Mikrochimica Acta</i> , 2004, 147, 225.	2.5	8
43	A sensitive fluorimetric biosensor for detection of DNA hybridization based on Fe/Au core/shell nanoparticles. <i>Analyst</i> , The, 2011, 136, 702-707.	1.7	8
44	Aptamer-gold nanoparticle-signal probe bioconjugates amplify electrochemical signal for the detection of prostate specific antigen. <i>Analytical Methods</i> , 2021, 13, 4150-4156.	1.3	8
45	Signal-on electrochemical sensor for the detection of two analytes based on the conformational changes of DNA probes. <i>Analytical Methods</i> , 2016, 8, 8059-8064.	1.3	7
46	Electrochemical Studies of Oxidation of Lomefloxacin and Interaction with Calf Thymus DNA at Nano-SnO <sub>2</sub> /DHP Modified Electrode. <i>Electroanalysis</i> , 2006, 18, 1479-1484.	1.5	5
47	Facile synthesis of hexagonal Ni-Co(OH) <sub>2</sub> nanosheets and their superior activity in the selective reduction of nitro compounds. <i>Dalton Transactions</i> , 2021, 50, 18061-18068.	1.6	5
48	Adriamycin coated silica microspheres as labels for cancer biomarker alpha-fetoprotein detection. <i>Analytical Methods</i> , 2021, 13, 2665-2670.	1.3	3
49	Electrochemical behavior of electrodeposited film derived from rhen and its activity towards myoglobin reduction. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 260-263.	1.2	2
50	Direct electron transfer of Mb on chitosan/single-wall carbon nanotubes film modified Au electrode and its interaction with cimetidine. <i>Russian Journal of Electrochemistry</i> , 2008, 44, 218-225.	0.3	1
51	Nano-Bio Interface-Guided Nanoparticle Protein Corona Antigen for Immunoassays and Immunoimaging in a Complex Matrix. <i>ACS Applied Bio Materials</i> , 2022, 5, 841-852.	2.3	1
52	Preparation and characterization of EVAL hollow fiber membrane adsorbents filled with cation exchange resins. <i>Frontiers of Chemical Engineering in China</i> , 2009, 3, 462-467.	0.6	0
53	10.1007/s11175-008-2009-2. , 2010, 44, 218.		0