

# Yuting Zhang

## List of Publications by Year in descending order

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55  
papers

1,425  
citations

331538

21  
h-index

330025

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g-index

55  
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55  
docs citations

55  
times ranked

1657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Biosensors Based on Microfabricated Devices for Point-of-Care Testing: A Review. <i>Electroanalysis</i> , 2022, 34, 168-183.	1.5	11
2	A FRET-based detection of N-acetylneuraminic acid using CdSe/ZnS quantum dot and exonuclease III-assisted recycling amplification strategy. <i>Food Chemistry</i> , 2022, 367, 130754.	4.2	12
3	Fluorescent biosensor based on FRET and catalytic hairpin assembly for sensitive detection of polysialic acid by using a new screened DNA aptamer. <i>Talanta</i> , 2022, 242, 123282.	2.9	11
4	Engineering a G-quadruplex-based logic gate platform for sensitive assay of dual biomarkers of ovarian cancer. <i>Analytica Chimica Acta</i> , 2022, 1198, 339559.	2.6	3
5	A fluorescence and surface-enhanced Raman scattering dual-mode aptasensor for rapid and sensitive detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114164.	5.3	36
6	A pH-Gated Functionalized Hollow Mesoporous Silica Delivery System for Photodynamic Sterilization in <i>Staphylococcus aureus</i> Biofilm. <i>Materials</i> , 2022, 15, 2815.	1.3	2
7	Fluorescent Aptasensor for Highly Specific Detection of ATP Using a Newly Screened Aptamer. <i>Sensors</i> , 2022, 22, 2425.	2.1	6
8	A lateral flow strip for on-site detection of tobramycin based on dual-functional platinum-decorated gold nanoparticles. <i>Analyst</i> , 2021, 146, 3608-3616.	1.7	19
9	An ultrasensitive biosensor for dual-specific DNA based on deposition of polyaniline on a self-assembled multi-functional DNA hexahedral-nanostructure. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113066.	5.3	18
10	Development of a sensitive and stable chemiluminescent immunoassay for detection of birch pollen allergic specific IgE based on recombinant Bet v1 protein. <i>Journal of Immunological Methods</i> , 2021, 493, 113040.	0.6	2
11	A portable and quantitative detection of microRNA-21 based on cascade enzymatic reactions with dual signal outputs. <i>Talanta</i> , 2021, 235, 122802.	2.9	6
12	Self-Assembled DNA Nanoflowers Triggered by a DNA Walker for Highly Sensitive Electrochemical Detection of <i>Staphylococcus aureus</i> . <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4905-4914.	4.0	68
13	Removal mechanisms of aqueous Cr(VI) using apple wood biochar: a spectroscopic study. <i>Journal of Hazardous Materials</i> , 2020, 384, 121371.	6.5	118
14	Enhanced removal of aqueous Cr(VI) by a green synthesized nanoscale zero-valent iron supported on oak wood biochar. <i>Chemosphere</i> , 2020, 245, 125542.	4.2	124
15	Screening and application of a truncated aptamer for high-sensitive fluorescent detection of metronidazole. <i>Analytica Chimica Acta</i> , 2020, 1128, 203-210.	2.6	28
16	Catalytic and Dual-Conductive Matrix Regulating the Kinetic Behaviors of Polysulfides in Flexible Li-S Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001683.	10.2	42
17	An electrochemical aptasensor for ATP based on a configuration-switchable tetrahedral DNA nanostructure. <i>Analytical Methods</i> , 2020, 12, 3285-3289.	1.3	8
18	Mutagenesis for Improvement of Activity and Stability of Prolyl Aminopeptidase from <i>Aspergillus oryzae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 1483-1498.	1.4	5

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19	Construction of Rich Conductive Pathways from Bottom to Top: A Highly Efficient Charge Transfer System Used in Durable Li/Na-ion Batteries at 20°C. <i>Chemistry - A European Journal</i> , 2020, 26, 13274-13281.	1.7	2
20	A fluorescent aptasensor for <i>Staphylococcus aureus</i> based on strand displacement amplification and self-assembled DNA hexagonal structure. <i>Mikrochimica Acta</i> , 2020, 187, 304.	2.5	25
21	Screening, Post-SELEX Optimization and Application of DNA Aptamers Specific for Tobramycin. <i>Methods in Molecular Biology</i> , 2020, 2070, 1-18.	0.4	0
22	Characteristics of refold acid urease immobilized covalently by graphene oxide-chitosan composite beads. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 16-22.	1.1	14
23	Interfacial charge dominating major active species and degradation pathways: An example of carbon based photocatalyst. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 743-751.	5.0	22
24	Amperometric Aptasensor for Amyloid- $\beta^2$ Oligomer Detection by Optimized Stem-Loop Structures with an Adjustable Detection Range. <i>ACS Sensors</i> , 2019, 4, 3042-3050.	4.0	44
25	Visual detection of kanamycin with DNA-functionalized gold nanoparticles probe in aptamer-based strip biosensor. <i>Analytical Biochemistry</i> , 2019, 587, 113432.	1.1	36
26	Ultrasensitive detection of the androgen receptor through the recognition of an androgen receptor response element and hybridization chain amplification. <i>Analyst</i> , 2019, 144, 2179-2185.	1.7	6
27	Functional chimera aptamer and molecular beacon based fluorescent detection of <i>Staphylococcus aureus</i> with strand displacement-target recycling amplification. <i>Analytica Chimica Acta</i> , 2019, 1075, 128-136.	2.6	35
28	Preparation of pickling-reheating activated alfalfa biochar with high adsorption efficiency for p-nitrophenol: characterization, adsorption behavior, and mechanism. <i>Environmental Science and Pollution Research</i> , 2019, 26, 15300-15313.	2.7	27
29	A colorimetric ATP assay based on the use of a magnesium(II)-dependent DNAzyme. <i>Mikrochimica Acta</i> , 2019, 186, 176.	2.5	10
30	Switchable DNA tweezer and G-quadruplex nanostructures for ultrasensitive voltammetric determination of the K-ras gene fragment. <i>Mikrochimica Acta</i> , 2019, 186, 843.	2.5	8
31	Electrochemical detection of sequence-specific DNA based on formation of G-quadruplex-hemin through continuous hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2018, 1021, 121-128.	2.6	20
32	Gold nanoparticle based photometric determination of tobramycin by using new specific DNA aptamers. <i>Mikrochimica Acta</i> , 2018, 185, 4.	2.5	41
33	Electrochemical detection of tobramycin based on enzymes-assisted dual signal amplification by using a novel truncated aptamer with high affinity. <i>Biosensors and Bioelectronics</i> , 2018, 122, 254-262.	5.3	75
34	Preparation of integrative cubes as a novel biological permeable reactive barrier medium for the enhancement of in situ aerobic bioremediation of nitrobenzene-contaminated groundwater. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	5
35	Purification, characterization, and biocatalytic potential of a novel dextranase from <i>Chaetomium globosum</i> . <i>Biotechnology Letters</i> , 2018, 40, 1407-1418.	1.1	18
36	Expression of an Acid Urease with Urethanase Activity in <i>E. coli</i> and Analysis of Urease Gene. <i>Molecular Biotechnology</i> , 2017, 59, 84-97.	1.3	13

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37	Highly sensitive Electrochemical Determination of Ethyl Carbamate Using Urethanase and Glutamate Dehydrogenase Modified Electrode. <i>Electroanalysis</i> , 2017, 29, 481-488.	1.5	12
38	UV-visible spectroscopic detection of kanamycin based on target-induced growth of gold nanoparticles. <i>Analytical Methods</i> , 2017, 9, 4843-4850.	1.3	11
39	Preparation of crosslinked enzyme aggregates (CLEAs) of acid urease with urethanase activity and their application. <i>Journal of Basic Microbiology</i> , 2016, 56, 422-431.	1.8	16
40	Graphene oxide-based selection and identification of ofloxacin-specific single-stranded DNA aptamers. <i>RSC Advances</i> , 2016, 6, 99540-99545.	1.7	16
41	Optimized expression of prolyl aminopeptidase in <i>Pichia pastoris</i> and its characteristics after glycosylation. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 176.	1.7	12
42	Direct electrochemical detection of kanamycin based on peroxidase-like activity of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 936, 75-82.	2.6	95
43	Simultaneous electrochemical detection of multiple antibiotic residues in milk based on aptamers and quantum dots. <i>Analytical Methods</i> , 2016, 8, 1981-1988.	1.3	49
44	Phenolic composition and effects on allergic contact dermatitis of phenolic extracts <i>Sapium sebiferum</i> (L.) Roxb. leaves. <i>Journal of Ethnopharmacology</i> , 2015, 162, 176-180.	2.0	26
45	A label-free electrochemical aptasensor for the detection of kanamycin in milk. <i>Analytical Methods</i> , 2015, 7, 1991-1996.	1.3	46
46	Ultrasensitive electrochemical detection of dual DNA targets based on G-quadruplex-mediated amplification. <i>RSC Advances</i> , 2015, 5, 57532-57537.	1.7	2
47	The tolerance of growth and clonal propagation of <i>Phragmites australis</i> (common reeds) subjected to lead contamination under elevated CO <sub>2</sub> conditions. <i>RSC Advances</i> , 2015, 5, 55527-55535.	1.7	1
48	Spectrophotometric determination of ethyl carbamate through bi-enzymatic cascade reactions. <i>Analytical Methods</i> , 2015, 7, 1261-1264.	1.3	8
49	The Influence of Precipitation Regimes and Elevated CO <sub>2</sub> on Photosynthesis and Biomass Accumulation and Partitioning in Seedlings of the Rhizomatous Perennial Grass <i>Leymus chinensis</i> . <i>PLoS ONE</i> , 2014, 9, e103633.	1.1	14
50	Aptamer-based spectrophotometric detection of kanamycin in milk. <i>Analytical Methods</i> , 2014, 6, 1569.	1.3	67
51	Digital gene expression analysis of the pathogenesis and therapeutic mechanisms of ligustrazine and puerarin in rat atherosclerosis. <i>Gene</i> , 2014, 552, 75-80.	1.0	21
52	Selection and identification of streptomycin-specific single-stranded DNA aptamers and the application in the detection of streptomycin in honey. <i>Talanta</i> , 2013, 108, 109-116.	2.9	108
53	Electrochemical study of thymine dimer based on DNA charge transfer. <i>Journal of Analytical Chemistry</i> , 2011, 66, 642-645.	0.4	0
54	Electroanalysis of D-Amino Acid Oxidase and Its Interaction with Hydrogen Peroxide. <i>Analytical Letters</i> , 2008, 41, 1408-1418.	1.0	1

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55	A bacteriostatic and hemostatic medical dressing based on PEG modified keratin/carboxymethyl chitosan. International Journal of Polymeric Materials and Polymeric Biomaterials, 0, , 1-9.	1.8	0