

# Bin Zhou

## List of Publications by Year in descending order

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47  
papers

923  
citations

361413  
20  
h-index

501196  
28  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1232  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multifunctional fluorescent aptamer probe for highly sensitive and selective detection of cadmium(II). <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4951-4958.	3.7	62
2	Urinary Metal Concentrations in Relation to Semen Quality: A Cross-Sectional Study in China. <i>Environmental Science &amp; Technology</i> , 2015, 49, 5052-5059.	10.0	59
3	A-Kinase Anchoring Protein 150 and Protein Kinase A Complex in the Basolateral Amygdala Contributes to Depressive-like Behaviors Induced by Chronic Restraint Stress. <i>Biological Psychiatry</i> , 2019, 86, 131-142.	1.3	49
4	Resonance light scattering determination of uranyl based on labeled DNAzyme-gold nanoparticle system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 419-424.	3.9	46
5	Label-free fluorescent aptasensor of Cd <sup>2+</sup> detection based on the conformational switching of aptamer probe and SYBR green I. <i>Microchemical Journal</i> , 2019, 144, 377-382.	4.5	46
6	Using rigidly fixed autogenous tooth graft to repair bone defect: an animal model. <i>Dental Traumatology</i> , 2014, 30, 380-384.	2.0	40
7	A colorimetric aptasensor for the highly sensitive detection of 8-hydroxy-2'-deoxyguanosine based on G-quadruplex-hemin DNAzyme. <i>Analytical Biochemistry</i> , 2014, 458, 4-10.	2.4	33
8	Protamine-gold nanoclusters as peroxidase mimics and the selective enhancement of their activity by mercury ions for highly sensitive colorimetric assay of Hg(II). <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7385-7394.	3.7	33
9	A novel strategy for dual-channel detection of metallothioneins and mercury based on the conformational switching of functional chimera aptamer. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 107, 258-264.	2.8	31
10	Prenatal phthalate exposure, birth outcomes and DNA methylation of Alu and LINE-1 repetitive elements: A pilot study in China. <i>Chemosphere</i> , 2018, 206, 759-765.	8.2	30
11	An ultrasensitive label-free assay of 8-hydroxy-2'-deoxyguanosine based on the conformational switching of aptamer. <i>Biosensors and Bioelectronics</i> , 2014, 58, 22-26.	10.1	29
12	Sex-specific associations of prenatal exposure to bisphenol A and its alternatives with fetal growth parameters and gestational age. <i>Environment International</i> , 2021, 146, 106305.	10.0	29
13	Transcription Factor TWIST1 Integrates Dendritic Remodeling and Chronic Stress to Promote Depressive-like Behaviors. <i>Biological Psychiatry</i> , 2021, 89, 615-626.	1.3	28
14	Thyroid function, phthalate exposure and semen quality: Exploring associations and mediation effects in reproductive-aged men. <i>Environment International</i> , 2018, 116, 278-285.	10.0	25
15	Construction of 5G all-wireless network and information system for cabin hospitals. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 934-938.	4.4	25
16	Fecal Streptococcus Alteration Is Associated with Gastric Cancer Occurrence and Liver Metastasis. <i>MBio</i> , 2021, 12, e0299421.	4.1	25
17	Colorimetric determination of 8-hydroxy-2'-deoxyguanosine using label-free aptamer and unmodified gold nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 903-910.	5.0	24
18	A sensitive resonance light scattering assay for uranyl ion based on the conformational change of a nuclease-resistant aptamer and gold nanoparticles acting as signal reporters. <i>Mikrochimica Acta</i> , 2014, 181, 1353-1360.	5.0	23

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19	Adopting the Principles of Collagen Biomineralization for Intrafibrillar Infiltration of Yttria-stabilized Zirconia into Three-dimensional Collagen Scaffolds. <i>Advanced Functional Materials</i> , 2014, 24, 1895-1903.	14.9	22
20	In Vitro Evaluation of Antibacterial Effect of AH Plus Incorporated with Quaternary Ammonium Epoxy Silicate against <i>Enterococcus faecalis</i> . <i>Journal of Endodontics</i> , 2014, 40, 1611-1615.	3.1	22
21	Predictors of Third Trimester Blood Trihalomethanes and Urinary Trichloroacetic Acid Concentrations among Pregnant Women. <i>Environmental Science &amp; Technology</i> , 2016, 50, 5278-5285.	10.0	22
22	Prenatal exposure to drinking water disinfection by-products and DNA methylation in cord blood. <i>Science of the Total Environment</i> , 2017, 586, 313-318.	8.0	19
23	Synthesis of antimicrobial silsesquioxane-silica hybrids by hydrolytic co-condensation of alkoxy silanes. <i>Polymer Chemistry</i> , 2014, 5, 454-462.	3.9	18
24	The Smart Health Initiative in China: The Case of Wuhan, Hubei Province. <i>Journal of Medical Systems</i> , 2016, 40, 62.	3.6	18
25	An enzyme-free strategy for ultrasensitive detection of adenosine using a multipurpose aptamer probe and malachite green. <i>Analytica Chimica Acta</i> , 2015, 887, 179-185.	5.4	16
26	Demineralized Dentin as a Semi-rigid Barrier for Guiding Periodontal Tissue Regeneration. <i>Journal of Periodontology</i> , 2015, 86, 1370-1379.	3.4	13
27	Ultrasensitive detection of Ag(I) based on the conformational switching of a multifunctional aptamer probe induced by silver(I). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 190-194.	3.9	13
28	Effect modification of CPY2E1 and GSTZ1 genetic polymorphisms on associations between prenatal disinfection by-products exposure and birth outcomes. <i>Environmental Pollution</i> , 2018, 243, 1126-1133.	7.5	13
29	Inhibitory effects of Rap1GAP overexpression on proliferation and migration of endothelial cells via ERK and Akt pathways. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2011, 31, 721-727.	1.0	12
30	Joint effects of trihalomethanes and trichloroacetic acid on semen quality: A population-based cross-sectional study in China. <i>Environmental Pollution</i> , 2016, 212, 544-549.	7.5	12
31	GEPIs-HA hybrid: A novel biomaterial for tooth repair. <i>Medical Hypotheses</i> , 2008, 71, 591-593.	1.5	11
32	Effect of Gestational Weight Gain on Associations Between Maternal Thyroid Hormones and Birth Outcomes. <i>Frontiers in Endocrinology</i> , 2020, 11, 610.	3.5	9
33	Determination of metallothioneins based on the enhanced peroxidase-like activity of mercury-coated gold nanoparticles aggregated by metallothioneins. <i>Mikrochimica Acta</i> , 2016, 183, 2123-2129.	5.0	8
34	Exonuclease III-assisted substrate fragment recycling amplification strategy for ultrasensitive detection of uranyl by a multipurpose DNAzyme. <i>RSC Advances</i> , 2016, 6, 108662-108667.	3.6	7
35	Fluorescent resonance energy transfer of organic fluorescent dyes with gold nanoparticles and their analytical application. <i>Gold Bulletin</i> , 2018, 51, 145-151.	2.4	7
36	An Ultrasensitive Colorimetric Strategy for Detection of Cadmium Based on the Peroxidase-like Activity of G-Quadruplex-Cd(II) Specific Aptamer. <i>Analytical Sciences</i> , 2019, 35, 277-282.	1.6	7

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37	The Association of Certain Seminal Phthalate Metabolites on Spermatozoa Apoptosis: An Exploratory Mediation Analysis via Sperm Protamine. <i>Environmental Pollution</i> , 2022, 300, 118969.	7.5	7
38	A label-free ultrasensitive and selective strategy for Pb(II) assay by a multifunctional DNA probe-mediated rolling-circle amplified synthesis of the G-quadruplexes. <i>Analytical Methods</i> , 2018, 10, 3081-3088.	2.7	6
39	Potential Role of Reversion-Inducing Cysteine-Rich Protein with Kazal Motifs (RECK) in Regulation of Matrix Metalloproteinases (MMPs) Expression in Periodontal Diseases. <i>Medical Science Monitor</i> , 2016, 22, 1936-1938.	1.1	5
40	Prevalence and genetic analysis of thalassemia in neonates in Wuhan area: a national megacity in central China. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 2240-2247.	1.5	4
41	A highly sensitive fluorescence probe for metallothioneins based on tiron-copper complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 85-89.	3.9	3
42	Determination of trace metallothioneins at nanogram levels with Eosin Y by resonance light scattering method. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 520-530.	3.3	3
43	Mobile isolation wards in a fever clinic: a novel operation model during the COVID-19 pandemic. <i>Epidemiology and Infection</i> , 2021, 149, e61.	2.1	3
44	Determination of Semicarbazide-Sensitive Amine Oxidase Activity in Blood Plasma by a Light Scattering Technique. <i>Analytical Letters</i> , 2012, 45, 2774-2784.	1.8	2
45	Cell attachment of periodontal ligament cells on commercially pure titanium at the early stage. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2004, 24, 307-309.	1.0	0
46	Deep vein thrombosis: Related to anemophilous pollen?. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2011, 31, 589-590.	1.0	0
47	Promotion of minTBP-1-PRGDN on the attachment, proliferation and collagen I synthesis of human keratocyte on titanium. <i>International Journal of Ophthalmology</i> , 2014, 7, 22-6.	1.1	0