

# Tao Bing

## List of Publications by Year in descending order

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62  
papers

2,210  
citations

212478

28  
h-index

263392

45  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Dots Based Dual-Emission Silica Nanoparticles as a Ratiometric Nanosensor for Cu <sup>2+</sup> . <i>Analytical Chemistry</i> , 2014, 86, 2289-2296.	3.2	277
2	General Peroxidase Activity of G-Quadruplex-Hemin Complexes and Its Application in Ligand Screening. <i>Biochemistry</i> , 2009, 48, 7817-7823.	1.2	233
3	Conservative secondary structure motif of streptavidin-binding aptamers generated by different laboratories. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 1798-1805.	1.4	94
4	Highly Selective Phthalocyanine-Thymine Conjugate Sensor for Hg <sup>2+</sup> Based on Target Induced Aggregation. <i>Analytical Chemistry</i> , 2009, 81, 3699-3704.	3.2	88
5	Ratiometric Fluorescent Biosensing of Hydrogen Peroxide and Hydroxyl Radical in Living Cells with Lysozyme-Silver Nanoclusters: Lysozyme as Stabilizing Ligand and Fluorescence Signal Unit. <i>Analytical Chemistry</i> , 2016, 88, 10631-10638.	3.2	87
6	Cell-SELEX-based selection of aptamers that recognize distinct targets on metastatic colorectal cancer cells. <i>Biomaterials</i> , 2014, 35, 6998-7007.	5.7	74
7	Characterization and application of a DNA aptamer binding to l-tryptophan. <i>Analyst</i> , 2011, 136, 577-585.	1.7	61
8	Activity Enhancement of G-Quadruplex/Hemin DNAzyme by Flanking d(CCC). <i>Chemistry - A European Journal</i> , 2016, 22, 4015-4021.	1.7	61
9	Activity enhancement of G-quadruplex/hemin DNAzyme by spermine. <i>RSC Advances</i> , 2014, 4, 1441-1448.	1.7	54
10	DNA Aptamer Evolved by Cell-SELEX for Recognition of Prostate Cancer. <i>PLoS ONE</i> , 2014, 9, e100243.	1.1	52
11	Imaging of Neurite Network with an Anti-L1CAM Aptamer Generated by Neurite-SELEX. <i>Journal of the American Chemical Society</i> , 2018, 140, 18066-18073.	6.6	49
12	Thiazole Orange-Modified Carbon Dots for Ratiometric Fluorescence Detection of G-Quadruplex and Double-Stranded DNA. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25166-25173.	4.0	49
13	Specific mercury(II) adsorption by thymine-based sorbent. <i>Talanta</i> , 2009, 78, 253-258.	2.9	44
14	Immunomodulatory Effects of Lycium barbarum Polysaccharide Extract and Its Uptake Behaviors at the Cellular Level. <i>Molecules</i> , 2020, 25, 1351.	1.7	42
15	G-quadruplex DNA aptamers for zeatin recognizing. <i>Biosensors and Bioelectronics</i> , 2013, 41, 157-162.	5.3	41
16	A Mitochondria-Targeted Ratiometric Fluorescent pH Probe. <i>ACS Applied Bio Materials</i> , 2019, 2, 1368-1375.	2.3	41
17	Facile Discovery of Cell-Surface Protein Targets of Cancer Cell Aptamers. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2692-2700.	2.5	38
18	Cytotoxicity of guanine-based degradation products contributes to the antiproliferative activity of guanine-rich oligonucleotides. <i>Chemical Science</i> , 2015, 6, 3831-3838.	3.7	37

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19	Bifunctional combined aptamer for simultaneous separation and detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1487-1492.	5.3	36
20	Intercellular Connections Related to Cell-Cell Crosstalk Specifically Recognized by an Aptamer. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3914-3918.	7.2	36
21	In vitro selection of DNA aptamers recognizing drug-resistant ovarian cancer by cell-SELEX. <i>Talanta</i> , 2019, 194, 437-445.	2.9	35
22	Cell-SELEX, an Effective Way to the Discovery of Biomarkers and Unexpected Molecular Events. <i>Advanced Biology</i> , 2019, 3, e1900193.	3.0	34
23	Visual Detection of Hg <sup>2+</sup> with High Selectivity Using Thymine Modified Gold Nanoparticles. <i>Analytical Sciences</i> , 2010, 26, 1169-1172.	0.8	33
24	Comparative Study of the Chemical Constituents and Bioactivities of the Extracts from Fruits, Leaves and Root Barks of <i>Lycium barbarum</i> . <i>Molecules</i> , 2019, 24, 1585.	1.7	33
25	Functional-Group Specific Aptamers Indirectly Recognizing Compounds with Alkyl Amino Group. <i>Analytical Chemistry</i> , 2012, 84, 7323-7329.	3.2	32
26	Rational design of Hg <sup>2+</sup> -controlled streptavidin-binding aptamer. <i>Chemical Communications</i> , 2013, 49, 164-166.	2.2	32
27	Mass Spectrometric Proteomics Reveals that Nuclear Protein Positive Cofactor PC4 Selectively Binds to Cross-Linked DNA by a <i>trans</i> -Platinum Anticancer Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 2948-2951.	6.6	32
28	Triplex-quadruplex structural scaffold: a new binding structure of aptamer. <i>Scientific Reports</i> , 2017, 7, 15467.	1.6	28
29	Oxidative degradation of polyamines by serum supplement causes cytotoxicity on cultured cells. <i>Scientific Reports</i> , 2018, 8, 10384.	1.6	28
30	Aptameric Probe Specifically Binding Protein Heterodimer Rather Than Monomers. <i>Advanced Science</i> , 2019, 6, 1900143.	5.6	28
31	General Cell-Binding Activity of Intramolecular G-Quadruplexes with Parallel Structure. <i>PLoS ONE</i> , 2013, 8, e62348.	1.1	28
32	Specific DNA G-quadruplexes bind to ethanolamines. <i>Biopolymers</i> , 2009, 91, 874-883.	1.2	27
33	Thiazole Orange Styryl Derivatives as Fluorescent Probes for G-Quadruplex DNA. <i>ACS Applied Bio Materials</i> , 2020, 3, 2643-2650.	2.3	26
34	G-quadruplex DNA aptamers generated for systemin. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 4211-4219.	1.4	24
35	Development of squaraine based G-quadruplex ligands using click chemistry. <i>Scientific Reports</i> , 2017, 7, 4766.	1.6	24
36	Ratiometric detection and imaging of hydrogen sulfide in mitochondria based on a cyanine/naphthalimide hybrid fluorescent probe. <i>Analyst</i> , 2020, 145, 6549-6555.	1.7	23

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37	Microbead-Based Platform for Multiplex Detection of DNA and Protein. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9462-9469.	4.0	22
38	Interaction of hypericin with guanine-rich DNA: Preferential binding to parallel G-Quadruplexes. <i>Dyes and Pigments</i> , 2016, 132, 405-411.	2.0	21
39	A label-free fluorescence sensor for probing the interaction of oligonucleotides with target molecules. <i>Analytica Chimica Acta</i> , 2009, 633, 97-102.	2.6	19
40	Interaction of bisbenzimidazole-substituted carbazole derivatives with G-quadruplexes and living cells. <i>RSC Advances</i> , 2015, 5, 75911-75917.	1.7	19
41	A Nucleus-Targeting DNA Aptamer for Dead Cell Indication. <i>ACS Sensors</i> , 2019, 4, 1612-1618.	4.0	19
42	Cell-SELEX: Aptamer Selection Against Whole Cells. , 2015, , 13-33.		17
43	Detection of Circulating Tumor-Related Materials by Aptamer Capturing and Endogenous Enzyme-Signal Amplification. <i>Analytical Chemistry</i> , 2020, 92, 5370-5378.	3.2	14
44	The Mechanism of the Selective Antiproliferation Effect of Guanine-Based Biomolecules and Its Compensation. <i>ACS Chemical Biology</i> , 2019, 14, 1164-1173.	1.6	12
45	A DNA Aptameric Ligand of Human Transferrin Receptor Generated by Cell-SELEX. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8923.	1.8	12
46	Detection of G-Quadruplex Structures Formed by G-Rich Sequences from Rice Genome and Transcriptome Using Combined Probes. <i>Analytical Chemistry</i> , 2017, 89, 8162-8169.	3.2	11
47	Quinacridone derivative as a new photosensitizer: Photodynamic effects in cells and in vivo. <i>Dyes and Pigments</i> , 2017, 145, 168-173.	2.0	10
48	Transferrin receptor-mediated internalization and intracellular fate of conjugates of a DNA aptamer. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 27, 1249-1259.	2.3	10
49	Prion Protein Targeted by a Prostate Cancer Cell Binding Aptamer, a Potential Tumor Marker?. <i>ACS Applied Bio Materials</i> , 2020, 3, 2658-2665.	2.3	9
50	p-Aminostyryl thiazole orange derivatives for monitoring mitochondrial viscosity in live cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120394.	2.0	7
51	Aptamer-Based Cell Nucleus Imaging via Expansion Microscopy. <i>Analytical Chemistry</i> , 2022, 94, 6044-6049.	3.2	7
52	Flow Cytometric Bead Sandwich Assay Based on a Split Aptamer. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2312-2318.	4.0	6
53	Dual-Monitoring Glycosylation and Local pH in Live Cells by Metabolic Oligosaccharide Engineering with a Ratiometric Fluorescent Tag. <i>Analytical Chemistry</i> , 2019, 91, 13720-13728.	3.2	6
54	FnCas12a/crRNA assisted dumbbell-PCR detection of IsomiRs with terminal and inner sequence variants. <i>Chemical Communications</i> , 2020, 56, 10038-10041.	2.2	6

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55	Cell-SELEX-based selection of ssDNA aptamers for specifically targeting <i>BRAF</i> V600E-mutated melanoma. <i>Analyst</i> , 2021, 147, 187-195.	1.7	6
56	Exact tailoring of an ATP controlled streptavidin binding aptamer. <i>RSC Advances</i> , 2014, 4, 15111.	1.7	5
57	A 4-aminonaphthalimide-based fluorescent traceable prodrug with excellent photoinduced cytotoxicity. <i>Chemical Communications</i> , 2021, 57, 6558-6561.	2.2	4
58	Specific interactions between adenosine and streptavidin/avidin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 7052-7055.	1.0	2
59	Intercellular Connections Related to Cell-Cell Crosstalk Specifically Recognized by an Aptamer. <i>Angewandte Chemie</i> , 2016, 128, 3982-3986.	1.6	2
60	Characterization and Identification of Aptamers against CD49c for the Detection, Capture, and Release of Cancer Cells. <i>ACS Applied Bio Materials</i> , 2022, 5, 3461-3468.	2.3	2
61	Early effects of carbon-ion irradiation on murine lymphocytes and thymocytes. <i>Advances in Space Research</i> , 2007, 40, 563-567.	1.2	1
62	In-Gel Probing Polymorphic Structures of G-Quadruplexes Derived from c-Myc Promoter. <i>Chinese Journal of Analytical Chemistry</i> , 2020, 48, 323-331.	0.9	0