

Tao Bing

List of Publications by Year in descending order

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62
papers

2,210
citations

186265

28
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233421

45
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63
all docs

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docs citations

63
times ranked

2998
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Dots Based Dual-Emission Silica Nanoparticles as a Ratiometric Nanosensor for Cu ²⁺ . Analytical Chemistry, 2014, 86, 2289-2296.	6.5	277
2	General Peroxidase Activity of G-Quadruplex-Hemin Complexes and Its Application in Ligand Screening. Biochemistry, 2009, 48, 7817-7823.	2.5	233
3	Conservative secondary structure motif of streptavidin-binding aptamers generated by different laboratories. Bioorganic and Medicinal Chemistry, 2010, 18, 1798-1805.	3.0	94
4	Highly Selective Phthalocyanine-Thymine Conjugate Sensor for Hg ²⁺ Based on Target Induced Aggregation. Analytical Chemistry, 2009, 81, 3699-3704.	6.5	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. Analytical Chemistry, 2016, 88, 10631-10638.	6.5	87
6	Cell-SELEX-based selection of aptamers that recognize distinct targets on metastatic colorectal cancer cells. Biomaterials, 2014, 35, 6998-7007.	11.4	74
7	Characterization and application of a DNA aptamer binding to l-tryptophan. Analyst, The, 2011, 136, 577-585.	3.5	61
8	Activity Enhancement of G-Quadruplex/Hemin DNAzyme by Flanking d(CCC). Chemistry - A European Journal, 2016, 22, 4015-4021.	3.3	61
9	Activity enhancement of G-quadruplex/hemin DNAzyme by spermine. RSC Advances, 2014, 4, 1441-1448.	3.6	54
10	DNA Aptamer Evolved by Cell-SELEX for Recognition of Prostate Cancer. PLoS ONE, 2014, 9, e100243.	2.5	52
11	Imaging of Neurite Network with an Anti-L1CAM Aptamer Generated by Neurite-SELEX. Journal of the American Chemical Society, 2018, 140, 18066-18073.	13.7	49
12	Thiazole Orange-Modified Carbon Dots for Ratiometric Fluorescence Detection of G-Quadruplex and Double-Stranded DNA. ACS Applied Materials & Interfaces, 2018, 10, 25166-25173.	8.0	49
13	Specific mercury(II) adsorption by thymine-based sorbent. Talanta, 2009, 78, 253-258.	5.5	44
14	Immunomodulatory Effects of Lycium barbarum Polysaccharide Extract and Its Uptake Behaviors at the Cellular Level. Molecules, 2020, 25, 1351.	3.8	42
15	G-quadruplex DNA aptamers for zeatin recognizing. Biosensors and Bioelectronics, 2013, 41, 157-162.	10.1	41
16	A Mitochondria-Targeted Ratiometric Fluorescent pH Probe. ACS Applied Bio Materials, 2019, 2, 1368-1375.	4.6	41
17	Facile Discovery of Cell-Surface Protein Targets of Cancer Cell Aptamers. Molecular and Cellular Proteomics, 2015, 14, 2692-2700.	3.8	38
18	Cytotoxicity of guanine-based degradation products contributes to the antiproliferative activity of guanine-rich oligonucleotides. Chemical Science, 2015, 6, 3831-3838.	7.4	37

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19	Bifunctional combined aptamer for simultaneous separation and detection of thrombin. Biosensors and Bioelectronics, 2010, 25, 1487-1492.	10.1	36
20	Intercellular Connections Related to Cell-Cell Crosstalk Specifically Recognized by an Aptamer. Angewandte Chemie - International Edition, 2016, 55, 3914-3918.	13.8	36
21	In vitro selection of DNA aptamers recognizing drug-resistant ovarian cancer by cell-SELEX. Talanta, 2019, 194, 437-445.	5.5	35
22	Cell-SELEX, an Effective Way to the Discovery of Biomarkers and Unexpected Molecular Events. Advanced Biology, 2019, 3, e1900193.	3.0	34
23	Visual Detection of Hg ²⁺ with High Selectivity Using Thymine Modified Gold Nanoparticles. Analytical Sciences, 2010, 26, 1169-1172.	1.6	33
24	Comparative Study of the Chemical Constituents and Bioactivities of the Extracts from Fruits, Leaves and Root Barks of Lycium barbarum. Molecules, 2019, 24, 1585.	3.8	33
25	Functional-Group Specific Aptamers Indirectly Recognizing Compounds with Alkyl Amino Group. Analytical Chemistry, 2012, 84, 7323-7329.	6.5	32
26	Rational design of Hg ²⁺ -controlled streptavidin-binding aptamer. Chemical Communications, 2013, 49, 164-166.	4.1	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. Journal of the American Chemical Society, 2014, 136, 2948-2951.	13.7	32
28	Triplex-quadruplex structural scaffold: a new binding structure of aptamer. Scientific Reports, 2017, 7, 15467.	3.3	28
29	Oxidative degradation of polyamines by serum supplement causes cytotoxicity on cultured cells. Scientific Reports, 2018, 8, 10384.	3.3	28
30	Aptameric Probe Specifically Binding Protein Heterodimer Rather Than Monomers. Advanced Science, 2019, 6, 1900143.	11.2	28
31	General Cell-Binding Activity of Intramolecular G-Quadruplexes with Parallel Structure. PLoS ONE, 2013, 8, e62348.	2.5	28
32	Specific DNA G-quadruplexes bind to ethanolamines. Biopolymers, 2009, 91, 874-883.	2.4	27
33	Thiazole Orange Styryl Derivatives as Fluorescent Probes for G-Quadruplex DNA. ACS Applied Bio Materials, 2020, 3, 2643-2650.	4.6	26
34	G-quadruplex DNA aptamers generated for systemin. Bioorganic and Medicinal Chemistry, 2011, 19, 4211-4219.	3.0	24
35	Development of squaraine based G-quadruplex ligands using click chemistry. Scientific Reports, 2017, 7, 4766.	3.3	24
36	Ratiometric detection and imaging of hydrogen sulfide in mitochondria based on a cyanine/naphthalimide hybrid fluorescent probe. Analyst, The, 2020, 145, 6549-6555.	3.5	23

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37	Microbead-Based Platform for Multiplex Detection of DNA and Protein. ACS Applied Materials & Interfaces, 2017, 9, 9462-9469.	8.0	22
38	Interaction of hypericin with guanine-rich DNA: Preferential binding to parallel G-Quadruplexes. Dyes and Pigments, 2016, 132, 405-411.	3.7	21
39	A label-free fluorescence sensor for probing the interaction of oligonucleotides with target molecules. Analytica Chimica Acta, 2009, 633, 97-102.	5.4	19
40	Interaction of bisbenzimidazole-substituted carbazole derivatives with G-quadruplexes and living cells. RSC Advances, 2015, 5, 75911-75917.	3.6	19
41	A Nucleus-Targeting DNA Aptamer for Dead Cell Indication. ACS Sensors, 2019, 4, 1612-1618.	7.8	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. Analytical Chemistry, 2020, 92, 5370-5378.	6.5	14
44	The Mechanism of the Selective Antiproliferation Effect of Guanine-Based Biomolecules and Its Compensation. ACS Chemical Biology, 2019, 14, 1164-1173.	3.4	12
45	A DNA Aptameric Ligand of Human Transferrin Receptor Generated by Cell-SELEX. International Journal of Molecular Sciences, 2021, 22, 8923.	4.1	12
46	Detection of G-Quadruplex Structures Formed by G-Rich Sequences from Rice Genome and Transcriptome Using Combined Probes. Analytical Chemistry, 2017, 89, 8162-8169.	6.5	11
47	Quinacridone derivative as a new photosensitizer: Photodynamic effects in cells and in vivo. Dyes and Pigments, 2017, 145, 168-173.	3.7	10
48	Transferrin receptor-mediated internalization and intracellular fate of conjugates of a DNA aptamer. Molecular Therapy - Nucleic Acids, 2022, 27, 1249-1259.	5.1	10
49	Prion Protein Targeted by a Prostate Cancer Cell Binding Aptamer, a Potential Tumor Marker?. ACS Applied Bio Materials, 2020, 3, 2658-2665.	4.6	9
50	p-Aminostyryl thiazole orange derivatives for monitoring mitochondrial viscosity in live cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120394.	3.9	7
51	Aptamer-Based Cell Nucleus Imaging via Expansion Microscopy. Analytical Chemistry, 2022, 94, 6044-6049.	6.5	7
52	Flow Cytometric Bead Sandwich Assay Based on a Split Aptamer. ACS Applied Materials & Interfaces, 2018, 10, 2312-2318.	8.0	6
53	Dual-Monitoring Glycosylation and Local pH in Live Cells by Metabolic Oligosaccharide Engineering with a Ratiometric Fluorescent Tag. Analytical Chemistry, 2019, 91, 13720-13728.	6.5	6
54	FnCas12a/crRNA assisted dumbbell-PCR detection of IsomiRs with terminal and inner sequence variants. Chemical Communications, 2020, 56, 10038-10041.	4.1	6

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55	Cell-SELEX-based selection of ssDNA aptamers for specifically targeting <i>BRAF</i> V600E-mutated melanoma. Analyst, The, 2021, 147, 187-195.	3.5	6
56	Exact tailoring of an ATP controlled streptavidin binding aptamer. RSC Advances, 2014, 4, 15111.	3.6	5
57	A 4-aminonaphthalimide-based fluorescent traceable prodrug with excellent photoinduced cytotoxicity. Chemical Communications, 2021, 57, 6558-6561.	4.1	4
58	Specific interactions between adenosine and streptavidin/avidin. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 7052-7055.	2.2	2
59	Intercellular Connections Related to Cellâ€“Cell Crosstalk Specifically Recognized by an Aptamer. Angewandte Chemie, 2016, 128, 3982-3986.	2.0	2
60	Characterization and Identification of Aptamers against CD49c for the Detection, Capture, and Release of Cancer Cells. ACS Applied Bio Materials, 2022, 5, 3461-3468.	4.6	2
61	Early effects of carbon-ion irradiation on murine lymphocytes and thymocytes. Advances in Space Research, 2007, 40, 563-567.	2.6	1
62	In-Gel Probing Polymorphic Structures of G-Quadruplexes Derived from c-Myc Promoter. Chinese Journal of Analytical Chemistry, 2020, 48, 323-331.	1.7	0