

Dihua Shangguan

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126
papers

8,703
citations

42
h-index

92
g-index

129
ext. papers

9,569
ext. citations

6.4
avg, IF

5.83
L-index

#	Paper	IF	Citations
126	Aptamers evolved from live cells as effective molecular probes for cancer study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11838-43	11.5	1159
125	Development of DNA aptamers using Cell-SELEX. <i>Nature Protocols</i> , 2010 , 5, 1169-85	18.8	573
124	Selection of aptamers for molecular recognition and characterization of cancer cells. <i>Analytical Chemistry</i> , 2007 , 79, 4900-7	7.8	398
123	Aptamer-conjugated nanoparticles for selective collection and detection of cancer cells. <i>Analytical Chemistry</i> , 2006 , 78, 2918-24	7.8	390
122	Cell-specific aptamer probes for membrane protein elucidation in cancer cells. <i>Journal of Proteome Research</i> , 2008 , 7, 2133-9	5.6	370
121	Molecular assembly of an aptamer-drug conjugate for targeted drug delivery to tumor cells. <i>ChemBioChem</i> , 2009 , 10, 862-8	3.8	314
120	Aptamer-conjugated nanoparticles for the collection and detection of multiple cancer cells. <i>Analytical Chemistry</i> , 2007 , 79, 3075-82	7.8	310
119	Identification of liver cancer-specific aptamers using whole live cells. <i>Analytical Chemistry</i> , 2008 , 80, 721-8	7.8	282
118	Carbon dots based dual-emission silica nanoparticles as a ratiometric nanosensor for Cu(2+). <i>Analytical Chemistry</i> , 2014 , 86, 2289-96	7.8	241
117	Aptamer directly evolved from live cells recognizes membrane bound immunoglobulin heavy mu chain in Burkitt's lymphoma cells. <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 2230-8	7.6	231
116	Molecular recognition of small-cell lung cancer cells using aptamers. <i>ChemMedChem</i> , 2008 , 3, 991-1001	3.7	211
115	Cell-specific internalization study of an aptamer from whole cell selection. <i>Chemistry - A European Journal</i> , 2008 , 14, 1769-75	4.8	202
114	General peroxidase activity of G-quadruplex-hemin complexes and its application in ligand screening. <i>Biochemistry</i> , 2009 , 48, 7817-23	3.2	199
113	Molecular recognition of acute myeloid leukemia using aptamers. <i>Leukemia</i> , 2009 , 23, 235-44	10.7	187
112	Optimization and modifications of aptamers selected from live cancer cell lines. <i>ChemBioChem</i> , 2007 , 8, 603-6	3.8	187
111	A Cyanine Dye to Probe Mitophagy: Simultaneous Detection of Mitochondria and Autolysosomes in Live Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12368-74	16.4	149
110	Dual-Ratiometric Target-Triggered Fluorescent Probe for Simultaneous Quantitative Visualization of Tumor Microenvironment Protease Activity and pH in Vivo. <i>Journal of the American Chemical Society</i> , 2018 , 140, 211-218	16.4	149

109	Recognition of subtype non-small cell lung cancer by DNA aptamers selected from living cells. <i>Analyst, The</i> , 2009 , 134, 1808-14	5	135
108	Aptamers evolved from cultured cancer cells reveal molecular differences of cancer cells in patient samples. <i>Clinical Chemistry</i> , 2007 , 53, 1153-5	5.5	128
107	A turn-on fluorescent sensor for zinc and cadmium ions based on perylene tetracarboxylic diimide. <i>Analyst, The</i> , 2013 , 138, 901-6	5	118
106	Protease-activated ratiometric fluorescent probe for pH mapping of malignant tumors. <i>ACS Nano</i> , 2015 , 9, 3199-205	16.7	85
105	Highly selective phthalocyanine-thymine conjugate sensor for Hg ²⁺ based on target induced aggregation. <i>Analytical Chemistry</i> , 2009 , 81, 3699-704	7.8	85
104	Conservative secondary structure motif of streptavidin-binding aptamers generated by different laboratories. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 1798-805	3.4	83
103	Fluorescence light-up probe for parallel G-quadruplexes. <i>Analytical Chemistry</i> , 2014 , 86, 943-52	7.8	81
102	Quartz crystal biosensor for real-time monitoring of molecular recognition between protein and small molecular medicinal agents. <i>Biosensors and Bioelectronics</i> , 2003 , 19, 9-19	11.8	81
101	Characterization of G-quadruplex/hemin peroxidase: substrate specificity and inactivation kinetics. <i>Chemistry - A European Journal</i> , 2011 , 17, 14475-84	4.8	79
100	Monolithic molecularly imprinted polymer for sulfamethoxazole and molecular recognition properties in aqueous mobile phase. <i>Analytica Chimica Acta</i> , 2006 , 571, 235-41	6.6	77
99	Facile Phase Transfer and Surface Biofunctionalization of Hydrophobic Nanoparticles Using Janus DNA Tetrahedron Nanostructures. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11210-3	16.4	71
98	Dicyanomethylene-functionalized squaraine as a highly selective probe for parallel G-quadruplexes. <i>Analytical Chemistry</i> , 2014 , 86, 7063-70	7.8	69
97	A pH sensitive ratiometric fluorophore and its application for monitoring the intracellular and extracellular pHs simultaneously. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 661-667	7.3	66
96	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	7.8	66
95	Cell-SELEX-based selection of aptamers that recognize distinct targets on metastatic colorectal cancer cells. <i>Biomaterials</i> , 2014 , 35, 6998-7007	15.6	60
94	Generating Cell Targeting Aptamers for Nanotheranostics Using Cell-SELEX. <i>Theranostics</i> , 2016 , 6, 1440-52.1	52.1	57
93	Silencing of PTK7 in colon cancer cells: caspase-10-dependent apoptosis via mitochondrial pathway. <i>PLoS ONE</i> , 2010 , 5, e14018	3.7	55
92	Characterization and application of a DNA aptamer binding to L-tryptophan. <i>Analyst, The</i> , 2011 , 136, 577-85	5	53

91	New method for high-performance liquid chromatographic separation and fluorescence detection of ginsenosides. <i>Journal of Chromatography A</i> , 2001 , 910, 367-72	4.5	51
90	A label-free electrochemical biosensor based on a DNA aptamer against codeine. <i>Analytica Chimica Acta</i> , 2013 , 787, 203-10	6.6	49
89	Activity Enhancement of G-Quadruplex/Hemin DNAzyme by Flanking d(CCC). <i>Chemistry - A European Journal</i> , 2016 , 22, 4015-21	4.8	49
88	A guanidine derivative of naphthalimide with excited-state deprotonation coupled intramolecular charge transfer properties and its application. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4427	7.1	46
87	DNA aptamer evolved by cell-SELEX for recognition of prostate cancer. <i>PLoS ONE</i> , 2014 , 9, e100243	3.7	45
86	Real time kinetic analysis of the interaction between immunoglobulin G and histidine using quartz crystal microbalance biosensor in solution. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 1419-27	11.8	45
85	Specific mercury(II) adsorption by thymine-based sorbent. <i>Talanta</i> , 2009 , 78, 253-8	6.2	43
84	Activity enhancement of G-quadruplex/hemin DNAzyme by spermine. <i>RSC Advances</i> , 2014 , 4, 1441-1448	3.7	41
83	Uniform-sized molecularly imprinted polymer for metsulfuron-methyl by one-step swelling and polymerization method. <i>Talanta</i> , 2007 , 71, 1205-10	6.2	40
82	Simple PbII fluorescent probe based on PbII-catalyzed hydrolysis of phosphodiester. <i>Biopolymers</i> , 2003 , 72, 413-20	2.2	40
81	Thermal responsive fluorescent block copolymer for intracellular temperature sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11543		39
80	G-quadruplex DNA aptamers for zeatin recognizing. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 157-62	11.8	36
79	A Bis(methylpiperazinylstyryl)phenanthroline as a Fluorescent Ligand for G-Quadruplexes. <i>Chemistry - A European Journal</i> , 2016 , 22, 6037-47	4.8	35
78	Thiazole Orange-Modified Carbon Dots for Ratiometric Fluorescence Detection of G-Quadruplex and Double-Stranded DNA. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25166-25173	9.5	33
77	Mercury(II)-mediated formation of imide-Hg-imide complexes. <i>Dalton Transactions</i> , 2011 , 40, 899-903	4.3	33
76	Bifunctional combined aptamer for simultaneous separation and detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1487-92	11.8	33
75	Rational design of Hg ²⁺ controlled streptavidin-binding aptamer. <i>Chemical Communications</i> , 2013 , 49, 164-6	5.8	32
74	Quartz crystal biosensor for real-time kinetic analysis of interaction between human TNF- α and monoclonal antibodies. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 416-424	8.5	32

73	Preparation and evaluation of uniform-sized molecularly imprinted polymer beads used for the separation of sulfamethazine. <i>Biomedical Chromatography</i> , 2005 , 19, 533-8	1.7	31
72	Intercellular Connections Related to Cell-Cell Crosstalk Specifically Recognized by an Aptamer. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3914-8	16.4	31
71	Visual detection of Hg ²⁺ with high selectivity using thymine modified gold nanoparticles. <i>Analytical Sciences</i> , 2010 , 26, 1169-72	1.7	30
70	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	16.4	30
69	Derivatization and fluorescence detection of amino acids and peptides with 9-fluorenylmethyl chloroformate on the surface of a solid adsorbent. <i>Analytical Chemistry</i> , 2001 , 73, 2054-7	7.8	29
68	Cytotoxicity of guanine-based degradation products contributes to the antiproliferative activity of guanine-rich oligonucleotides. <i>Chemical Science</i> , 2015 , 6, 3831-3838	9.4	27
67	Ultra-high-performance liquid chromatography electrospray ionization tandem mass spectrometry for accurate analysis of glycerophospholipids and sphingolipids in drug resistance tumor cells. <i>Journal of Chromatography A</i> , 2015 , 1381, 140-8	4.5	27
66	Functional-group specific aptamers indirectly recognizing compounds with alkyl amino group. <i>Analytical Chemistry</i> , 2012 , 84, 7323-9	7.8	27
65	Specific DNA G-quadruplexes bind to ethanolamines. <i>Biopolymers</i> , 2009 , 91, 874-83	2.2	27
64	Facile Discovery of Cell-Surface Protein Targets of Cancer Cell Aptamers. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 2692-700	7.6	26
63	Mass spectrometric proteomics reveals that nuclear protein positive cofactor PC4 selectively binds to cross-linked DNA by a trans-platinum anticancer complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2948-51	16.4	26
62	Simultaneous Monitoring of Mitochondrial Temperature and ATP Fluctuation Using Fluorescent Probes in Living Cells. <i>Analytical Chemistry</i> , 2018 , 90, 12553-12558	7.8	26
61	In vitro selection of DNA aptamers recognizing drug-resistant ovarian cancer by cell-SELEX. <i>Talanta</i> , 2019 , 194, 437-445	6.2	25
60	One-step real time RT-PCR for detection of microRNAs. <i>Talanta</i> , 2013 , 110, 190-5	6.2	24
59	G-quadruplex DNA aptamers generated for systemin. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 4211-4	3.9	24
58	PEG-urokinase nanogels with enhanced stability and controllable bioactivity. <i>Soft Matter</i> , 2012 , 8, 2644	3.6	22
57	Effects of side chains on DNA binding, cell permeability, nuclear localization and cytotoxicity of 4-aminonaphthalimides. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 9207-15	3.9	21
56	Development of squaraine based G-quadruplex ligands using click chemistry. <i>Scientific Reports</i> , 2017 , 7, 4766	4.9	20

55	Novel sulfamethazine ligand used for one-step purification of immunoglobulin G from human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 792, 177-85	3.2	20
54	General cell-binding activity of intramolecular G-quadruplexes with parallel structure. <i>PLoS ONE</i> , 2013 , 8, e62348	3.7	20
53	Interaction of bisbenzimidazole-substituted carbazole derivatives with G-quadruplexes and living cells. <i>RSC Advances</i> , 2015 , 5, 75911-75917	3.7	19
52	Dicyanomethylene Substituted Benzothiazole Squaraines: The Efficiency of Photodynamic Therapy In Vitro and In Vivo. <i>EBioMedicine</i> , 2017 , 23, 25-33	8.8	19
51	A Mitochondria-Targeted Ratiometric Fluorescent pH Probe.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1368-1375	4.5	18
50	Immunomodulatory Effects of Polysaccharide Extract and Its Uptake Behaviors at the Cellular Level. <i>Molecules</i> , 2020 , 25,	4.8	17
49	A label-free fluorescence sensor for probing the interaction of oligonucleotides with target molecules. <i>Analytica Chimica Acta</i> , 2009 , 633, 97-102	6.6	17
48	QCM-FIA with PGMA coating for dynamic interaction study of heparin and antithrombin III. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 121-7	11.8	17
47	Microbead-Based Platform for Multiplex Detection of DNA and Protein. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9462-9469	9.5	16
46	Triplex-quadruplex structural scaffold: a new binding structure of aptamer. <i>Scientific Reports</i> , 2017 , 7, 15467	4.9	16
45	Aptameric Probe Specifically Binding Protein Heterodimer Rather Than Monomers. <i>Advanced Science</i> , 2019 , 6, 1900143	13.6	15
44	Thiazole Orange Styryl Derivatives as Fluorescent Probes for G-Quadruplex DNA.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2643-2650	4.1	15
43	Interaction of hypericin with guanine-rich DNA: Preferential binding to parallel G-Quadruplexes. <i>Dyes and Pigments</i> , 2016 , 132, 405-411	4.6	15
42	Visible-light-induced cleavage of 4-amino acid substituted naphthalimides and its application in DNA photocleavage. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 3931-5	3.9	15
41	Comparative Study of the Chemical Constituents and Bioactivities of the Extracts from Fruits, Leaves and Root Barks of. <i>Molecules</i> , 2019 , 24,	4.8	14
40	A new type of capillary column for open-tubular electrochromatography. <i>Electrophoresis</i> , 2002 , 23, 2990-5	3.56	14
39	Speeding up in Vitro Discovery of Structure-Switching Aptamers via Magnetic Cross-Linking Precipitation. <i>Analytical Chemistry</i> , 2019 , 91, 13383-13389	7.8	13
38	Oxidative degradation of polyamines by serum supplement causes cytotoxicity on cultured cells. <i>Scientific Reports</i> , 2018 , 8, 10384	4.9	13

37	Cell-SELEX, an Effective Way to the Discovery of Biomarkers and Unexpected Molecular Events. <i>Advanced Biology</i> , 2019 , 3, e1900193	3.5	13
36	Selective isolation of G-quadruplexes by affinity chromatography. <i>Journal of Chromatography A</i> , 2012 , 1246, 62-8	4.5	12
35	Analysis of glucose and lactate in hippocampal dialysates of rats during the operant conditioned reflex using microdialysis. <i>Neurochemistry International</i> , 2003 , 43, 67-72	4.4	12
34	Ratiometric detection and imaging of hydrogen sulfide in mitochondria based on a cyanine/naphthalimide hybrid fluorescent probe. <i>Analyst, The</i> , 2020 , 145, 6549-6555	5	12
33	A Nucleus-Targeting DNA Aptamer for Dead Cell Indication. <i>ACS Sensors</i> , 2019 , 4, 1612-1618	9.2	11
32	Ratiometric fluorescent silver nanoclusters for the determination of mercury and copper ions. <i>Analytical Methods</i> , 2015 , 7, 8019-8024	3.2	11
31	Improved method for the routine determination of acetylcholine and choline in brain microdialysate using a horseradish peroxidase column as the immobilized enzyme reactor. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 788, 193-8	3.2	11
30	Screening of inhibitors for influenza A virus using high-performance affinity chromatography and combinatorial peptide libraries. <i>Journal of Chromatography A</i> , 2005 , 1064, 59-66	4.5	11
29	Design, synthesis and screening of antisense peptide based combinatorial peptide libraries towards an aromatic region of SARS-CoV. <i>Journal of Molecular Recognition</i> , 2008 , 21, 122-31	2.6	10
28	Three novel high performance affinity chromatographic media for the separation of antithrombin III from human plasma. <i>Biomedical Chromatography</i> , 2001 , 15, 487-92	1.7	10
27	Analysis of glucose and lactate in dialysate from hypothalamus of rats after exhausting swimming using microdialysis. <i>Biomedical Chromatography</i> , 2002 , 16, 427-31	1.7	9
26	Detection of Circulating Tumor-Related Materials by Aptamer Capturing and Endogenous Enzyme-Signal Amplification. <i>Analytical Chemistry</i> , 2020 , 92, 5370-5378	7.8	8
25	DNA interaction, cellular localization and cytotoxicity of quinacridone derivatives. <i>Dyes and Pigments</i> , 2015 , 121, 328-335	4.6	8
24	Cell-SELEX: Aptamer Selection Against Whole Cells 2015 , 13-33		7
23	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	7.8	7
22	The Mechanism of the Selective Antiproliferation Effect of Guanine-Based Biomolecules and Its Compensation. <i>ACS Chemical Biology</i> , 2019 , 14, 1164-1173	4.9	6
21	Quinacridone derivative as a new photosensitizer: Photodynamic effects in cells and in vivo. <i>Dyes and Pigments</i> , 2017 , 145, 168-173	4.6	6
20	Flow Cytometric Bead Sandwich Assay Based on a Split Aptamer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2312-2318	9.5	4

19	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	7.8	4
18	Exact tailoring of an ATP controlled streptavidin binding aptamer. <i>RSC Advances</i> , 2014 , 4, 15111	3.7	4
17	Hyperoxia caused by microdialysis perfusion decreased striatal monoamines: involvement of oxidative stress. <i>Neurochemistry International</i> , 2003 , 42, 465-70	4.4	4
16	Acetylcholine release in the hippocampus during the operant conditioned reflex and the footshock stimulus in rats. <i>Neuroscience Letters</i> , 2004 , 369, 121-5	3.3	4
15	FnCas12a/crRNA assisted dumbbell-PCR detection of IsomiRs with terminal and inner sequence variants. <i>Chemical Communications</i> , 2020 , 56, 10038-10041	5.8	4
14	A DNA Aptameric Ligand of Human Transferrin Receptor Generated by Cell-SELEX. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
13	Multifunctional hard-shelled microbubbles for differentiating imaging, cavitation and drug release by ultrasound. <i>RSC Advances</i> , 2017 , 7, 25892-25896	3.7	3
12	A novel matrix for high performance affinity chromatography and its application in the purification of antithrombin III. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 816, 175-81	3.2	3
11	Fluorescent Aptamer Sensors 2009 , 111-130		3
10	Prion Protein Targeted by a Prostate Cancer Cell Binding Aptamer, a Potential Tumor Marker?. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2658-2665	4.1	2
9	Intercellular Connections Related to Cell-Cell Crosstalk Specifically Recognized by an Aptamer. <i>Angewandte Chemie</i> , 2016 , 128, 3982-3986	3.6	2
8	Specific interactions between adenosine and streptavidin/avidin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7052-5	2.9	2
7	Transferrin receptor-mediated internalization and intracellular fate of conjugates of a DNA aptamer.. <i>Molecular Therapy - Nucleic Acids</i> , 2022 , 27, 1249-1259	10.7	2
6	Cell-SELEX-based selection of ssDNA aptamers for specifically targeting V600E-mutated melanoma. <i>Analyst, The</i> , 2021 ,	5	2
5	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	4.4	1
4	A 4-aminonaphthalimide-based fluorescent traceable prodrug with excellent photoinduced cytotoxicity. <i>Chemical Communications</i> , 2021 , 57, 6558-6561	5.8	1
3	A mitochondria-targeted near-infrared fluorescent probe for detection and imaging of HSO in living cells.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 278, 121305	4.4	0
2	Cancer Cell Proteomics Using Molecular Aptamers 2005 , 73-85		

- 1 Biomedical Applications of Functional Micro-/Nanoimaging Probes. *Engineering Materials*, **2018**, 37-71 o.4