

Detection of Protein Biomarkers Using RNA Aptamer Modified Amplified Surface Plasmon Resonance Imaging

Analytical Chemistry

79, 1082-1088

DOI: 10.1021/ac061849m

Citation Report

#	ARTICLE	IF	CITATIONS
1	Exploring the sequence space of a DNA aptamer using microarrays. Nucleic Acids Research, 2007, 35, 7626-7635.	14.5	113
2	Turbidimetric detection of ATP using polymeric micelles and DNA aptamers. Chemical Communications, 2007, , 4743.	4.1	52
3	Label-Free Sensing of Binding to Microarrays Using Brewster Angle Straddle Interferometry. Analytical Chemistry, 2007, 79, 7589-7595.	6.5	29
5	Quantitative proteomics for identification of cancer biomarkers. Proteomics - Clinical Applications, 2007, 1, 1080-1089.	1.6	29
6	Plasmonic Properties of Copper Nanoparticles Fabricated by Nanosphere Lithography. Nano Letters, 2007, 7, 1947-1952.	9.1	768
7	Effect of macrocyclic nickel(II) and copper(II) complexes on the reaction of trypsin with a soybean bioinhibitor. Theoretical and Experimental Chemistry, 2008, 44, 260-265.	0.8	1
8	Surface immobilization methods for aptamer diagnostic applications. Analytical and Bioanalytical Chemistry, 2008, 390, 1009-1021.	3.7	255
9	Development of an optical RNA-based aptasensor for C-reactive protein. Analytical and Bioanalytical Chemistry, 2008, 390, 1077-1086.	3.7	89
10	Microchannel chips for the multiplexed analysis of human immunoglobulin Gâ€™ antibody interactions by surface plasmon resonance imaging. Analytical and Bioanalytical Chemistry, 2008, 390, 1575-1583.	3.7	36
11	Recent advances of aptamer sensors. Science in China Series B: Chemistry, 2008, 51, 193-204.	0.8	17
12	Novel protein detection method based on proximity-dependent polymerase reaction and aptamers. Science Bulletin, 2008, 53, 204-208.	1.7	4
13	Survey of the year 2007 commercial optical biosensor literature. Journal of Molecular Recognition, 2008, 21, 355-400.	2.1	153
14	A Novel Labelâ€™Free Biosensor Using an Aptazymeâ€™Suppressorâ€™RNA Conjugate and an Amber Mutated Reporter Gene. ChemBioChem, 2008, 9, 2204-2208.	2.6	25
15	Aptamere in der Biosensorik. Chemie-Ingenieur-Technik, 2008, 80, 771-781.	0.8	1
16	Seeing Molecules by Eye: Surface Plasmon Resonance Imaging at Visible Wavelengths with High Spatial Resolution and Submonolayer Sensitivity. Angewandte Chemie - International Edition, 2008, 47, 5013-5017.	13.8	62
18	Aptamer-based biosensors. TrAC - Trends in Analytical Chemistry, 2008, 27, 108-117.	11.4	1,149
19	Applications of Proteomics to Lab Diagnosis. Annual Review of Pathology: Mechanisms of Disease, 2008, 3, 485-498.	22.4	39
20	Affinity-based biosensors as promising tools for gene doping detection. Trends in Biotechnology, 2008, 26, 236-243.	9.3	28

#	ARTICLE	IF	CITATIONS
21	Microarray methods for protein biomarker detection. Analyst, The, 2008, 133, 975.	3.5	134
22	Surface Plasmon Resonance. Springer Protocols, 2008, , 809-820.	0.3	5
23	Molecular Biomethods Handbook. Springer Protocols, 2008, , .	0.3	13
24	Nanostructured Plasmonic Sensors. Chemical Reviews, 2008, 108, 494-521.	47.7	2,245
25	Biosensors based on surface plasmon-enhanced fluorescence spectroscopy (Review). Biointerphases, 2008, 3, FD12-FD22.	1.6	100
26	Surface Plasmon Resonance Sensors for Detection of Chemical and Biological Species. Chemical Reviews, 2008, 108, 462-493.	47.7	3,658
27	Enhanced bioaffinity sensing using surface plasmons, surface enzyme reactions, nanoparticles and diffraction gratings. Analyst, The, 2008, 133, 596.	3.5	25
28	Localized Surface Plasmon Resonance Spectroscopy of Triangular Aluminum Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 13958-13963.	3.1	360
29	Discovery of cancer biomarkers using antibody arrays. Expert Opinion on Medical Diagnostics, 2008, 2, 249-262.	1.6	2
30	NUCLEIC ACIDS FOR REAGENTLESS BIOSENSORS. , 2008, , 493-541.		3
32	Microbial forensics: fiber optic microarray subtyping of Bacillus anthracis. , 2009, , .		0
33	Recognition of biomarkers and cell-specific molecular signatures: Aptamers as capture agents. Journal of Separation Science, 2009, 32, 1523-1530.	2.5	41
34	Emerging applications of aptamers to micro- and nanoscale biosensing. Microfluidics and Nanofluidics, 2009, 6, 347-362.	2.2	49
35	Aptamer-Au NPs conjugates-enhanced SPR sensing for the ultrasensitive sandwich immunoassay. Biosensors and Bioelectronics, 2009, 25, 124-129.	10.1	115
36	Aptamers against prion proteins and prions. Cellular and Molecular Life Sciences, 2009, 66, 2445-2455.	5.4	28
37	Selective detection of sulfur derivatives using microfabricated tuning fork-based sensors. Sensors and Actuators B: Chemical, 2009, 140, 490-499.	7.8	13
38	A label-free fluorescence sensor for probing the interaction of oligonucleotides with target molecules. Analytica Chimica Acta, 2009, 633, 97-102.	5.4	19
39	Investigation of 3,3',5,5'-tetramethylbenzidine as colorimetric substrate for a peroxidatic DNAzyme. Analytica Chimica Acta, 2009, 651, 234-240.	5.4	96

#	ARTICLE	IF	CITATIONS
40	Regenerable Tethered Bilayer Lipid Membrane Arrays for Multiplexed Label-Free Analysis of Lipid-Protein Interactions on Poly(dimethylsiloxane) Microchips Using SPR Imaging. <i>Analytical Chemistry</i> , 2009, 81, 1146-1153.	6.5	78
41	Development of an Oligonucleotide Functionalized Hydrogel Integrated on a High Resolution Interferometric Readout Platform as a Label-Free Macromolecule Sensing Device. <i>Biomacromolecules</i> , 2009, 10, 1619-1626.	5.4	43
42	Screening of Type I and II Drug Binding to Human Cytochrome P450-3A4 in Nanodiscs by Localized Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2009, 81, 3754-3759.	6.5	116
43	Aptamer-Linked Assay for Thrombin Using Gold Nanoparticle Amplification and Inductively Coupled Plasma-Mass Spectrometry Detection. <i>Analytical Chemistry</i> , 2009, 81, 7484-7489.	6.5	131
44	Multispectral Thin Film Biosensing and Quantitative Imaging Using 3D Plasmonic Crystals. <i>Analytical Chemistry</i> , 2009, 81, 5980-5989.	6.5	39
45	Measurement uncertainty in analytical studies based on surface plasmon resonance. <i>Talanta</i> , 2009, 80, 466-472.	5.5	32
46	Applications of Aptamers as Sensors. <i>Annual Review of Analytical Chemistry</i> , 2009, 2, 241-264.	5.4	714
47	Enhancement of Aptamer Microarray Sensitivity through Spacer Optimization and Avidity Effect. <i>Analytical Chemistry</i> , 2009, 81, 1747-1754.	6.5	78
48	Functional Nucleic Acid Sensors. <i>Chemical Reviews</i> , 2009, 109, 1948-1998.	47.7	1,988
50	Nanomaterial-Based Label-Free Aptasensors. , 0, , 139-158.		0
51	Aptamer-Based Bioanalytical Assays: Amplification Strategies. , 0, , 159-179.		2
52	Advances and perspectives in aptamer arrays. <i>Integrative Biology (United Kingdom)</i> , 2009, 1, 53-58.	1.3	22
53	Optical Guided-wave Chemical and Biosensors I. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2009, , .	0.5	12
54	Noncompetitive Immunodetection of Benzaldehyde by Open Sandwich ELISA. <i>Analytical Sciences</i> , 2009, 25, 1095-1100.	1.6	15
57	Aptamer-based molecular recognition for biosensor development. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2471-2480.	3.7	121
58	Au NPs-enhanced surface plasmon resonance for sensitive detection of mercury(II) ions. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2622-2626.	10.1	93
59	Antibody array-based technologies for cancer protein profiling and functional proteomic analyses using serum and tissue specimens. <i>Tumor Biology</i> , 2010, 31, 103-112.	1.8	24
60	Tumour auto-antibody screening: performance of protein microarrays using SEREX derived antigens. <i>BMC Cancer</i> , 2010, 10, 627.	2.6	16

#	ARTICLE	IF	CITATIONS
61	Poly[oligo(ethylene glycol) methacrylate- <i>co</i> -glycidyl methacrylate] Brush Substrate for Sensitive Surface Plasmon Resonance Imaging Protein Arrays. <i>Advanced Functional Materials</i> , 2010, 20, 3497-3503.	14.9	90
62	Functional Nanostructured Plasmonic Materials. <i>Advanced Materials</i> , 2010, 22, 1102-1110.	21.0	109
63	A label-free electrochemical RNA aptamer for selective detection of theophylline. <i>Electrochemistry Communications</i> , 2010, 12, 300-302.	4.7	32
64	Detection of low levels of <i>Escherichia coli</i> in fresh spinach by surface plasmon resonance spectroscopy with a TMB-based enzymatic signal enhancement method. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 613-619.	7.8	47
65	Surface plasmon resonance imaging for affinity-based biosensors. <i>Biosensors and Bioelectronics</i> , 2010, 25, 957-966.	10.1	408
66	Reconstructing the pipeline by introducing multiplexed multiple reaction monitoring mass spectrometry for cancer biomarker verification: An NCI-CPTC initiative perspective. <i>Proteomics - Clinical Applications</i> , 2010, 4, 904-914.	1.6	35
67	Encoded anisotropic particles for multiplexed bioanalysis. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 578-600.	6.1	43
69	Protein Microarrays for Cancer Diagnostics and Therapy. <i>Medical Principles and Practice</i> , 2010, 19, 247-254.	2.4	16
70	Surface Plasmon Resonance: New Biointerface Designs and High-Throughput Affinity Screening. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2010, , 133-153.	0.5	2
71	Highly Sensitive Detection of Protein Toxins by Surface Plasmon Resonance with Biotinylation-Based Inline Atom Transfer Radical Polymerization Amplification. <i>Analytical Chemistry</i> , 2010, 82, 3679-3685.	6.5	57
72	Parallel microfluidic surface plasmon resonance imaging arrays. <i>Lab on A Chip</i> , 2010, 10, 581.	6.0	123
73	Molecular interaction studies of vascular endothelial growth factor with RNA aptamers. <i>Analyst, The</i> , 2010, 135, 2014.	3.5	19
74	Cascade Signal Amplification Strategy for Subattomolar Protein Detection by Rolling Circle Amplification and Quantum Dots Tagging. <i>Analytical Chemistry</i> , 2010, 82, 3337-3342.	6.5	151
75	Measurement of biomarker proteins for point-of-care early detection and monitoring of cancer. <i>Analyst, The</i> , 2010, 135, 2496.	3.5	469
76	An Omics Perspective on Cancer Research. , 2010, , .		20
77	Aptamer-Functionalized In Situ Injectable Hydrogel for Controlled Protein Release. <i>Biomacromolecules</i> , 2010, 11, 2724-2730.	5.4	75
78	Attomole Detection of Mesophilic DNA Polymerase Products by Nanoparticle-Enhanced Surface Plasmon Resonance Imaging on Glassified Gold Surfaces. <i>Journal of the American Chemical Society</i> , 2010, 132, 9265-9267.	13.7	71
79	Aptamer-based biochips for label-free detection of plant virus coat proteins by SPR imaging. <i>Analyst, The</i> , 2010, 135, 918.	3.5	90

#	ARTICLE	IF	CITATIONS
80	Multilayers of hydrogels loaded with microparticles: a fast and simple approach for microarray manufacturing. Lab on A Chip, 2010, 10, 372-378.	6.0	6
81	Fabrication of a Highly Sensitive Aptasensor for Potassium with a Nicking Endonuclease-Assisted Signal Amplification Strategy. Analytical Chemistry, 2011, 83, 4085-4089.	6.5	87
82	Aptamer-Functionalized Microgel Particles for Protein Detection. Analytical Chemistry, 2011, 83, 9138-9145.	6.5	77
83	Rapid Microarray Detection of DNA and Proteins in Microliter Volumes with Surface Plasmon Resonance Imaging Measurements. Langmuir, 2011, 27, 6534-6540.	3.5	35
84	Aptamer Arrays. Methods in Molecular Biology, 2011, 671, 35-54.	0.9	3
85	Lung Cancer and Its Early Detection Using Biomarker-Based Biosensors. Chemical Reviews, 2011, 111, 6783-6809.	47.7	236
86	Highly Sensitive Biosensing Using Arrays of Plasmonic Au Nanodisks Realized by Nanoimprint Lithography. ACS Nano, 2011, 5, 897-904.	14.6	265
87	Advances in Surface Plasmon Resonance Sensing with Nanoparticles and Thin Films: Nanomaterials, Surface Chemistry, and Hybrid Plasmonic Techniques. Analytical Chemistry, 2011, 83, 8057-8062.	6.5	94
88	Chemiluminescence and Chemiluminescence Resonance Energy Transfer (CRET) Aptamer Sensors Using Catalytic Hemin/G-Quadruplexes. ACS Nano, 2011, 5, 7648-7655.	14.6	261
89	Protein Microarrays. Methods in Molecular Biology, 2011, , .	0.9	7
90	Sensitive on-chip detection of a protein biomarker in human serum and plasma over an extended dynamic range using silicon photonic microring resonators and sub-micron beads. Lab on A Chip, 2011, 11, 2042.	6.0	82
91	Biological Microarrays. Methods in Molecular Biology, 2011, , .	0.9	2
92	Label-free, regenerative and sensitive surface plasmon resonance and electrochemical aptasensors based on graphene. Chemical Communications, 2011, 47, 7794.	4.1	114
93	Electrochemical aptasensor for detection of copper based on a reagentless signal-on architecture and amplification by gold nanoparticles. Talanta, 2011, 85, 730-735.	5.5	51
94	Aptamer Sensors Combined with Enzymes for Highly Sensitive Detection. , 0, , .		0
95	Label-free analysis of biomolecular interactions using SPR imaging. BioTechniques, 2011, 50, 32-40.	1.8	79
96	Protein Microarray Substrates with High Interfacial Area Using Silica Colloidal Crystals. ACS Symposium Series, 2011, , 197-213.	0.5	1
97	Application of thin metal film elements in bioanalysis. Journal of Separation Science, 2011, 34, 2779-2789.	2.5	17

#	ARTICLE	IF	CITATIONS
98	Identifying Protein Variants with Cross- ² Reactive Aptamer Arrays. ChemBioChem, 2011, 12, 2021-2024.	2.6	16
99	A folding-based electrochemical aptasensor for detection of vascular endothelial growth factor in human whole blood. Biosensors and Bioelectronics, 2011, 26, 2442-2447.	10.1	145
100	A quantum dot-aptamer beacon using a DNA intercalating dye as the FRET reporter: Application to label-free thrombin detection. Biosensors and Bioelectronics, 2011, 26, 3346-3352.	10.1	115
101	Optical detection systems using immobilized aptamers. Biosensors and Bioelectronics, 2011, 26, 3725-3736.	10.1	86
102	Selection of thrombin-binding aptamers by using computational approach for aptasensor application. Biosensors and Bioelectronics, 2011, 26, 4411-4416.	10.1	43
103	Molecular Imaging with Nucleic Acid Aptamers. Current Medicinal Chemistry, 2011, 18, 4195-4205.	2.4	87
104	Surface nanostructuring for Surface Plasmon Resonance imaging. , 2011, , .		0
105	Biosensors based on the plasmonic properties of Au microhole arrays. , 2011, , .		0
106	Artificial DNA and surface plasmon resonance. Artificial DNA, PNA & XNA, 2012, 3, 45-52.	1.4	25
107	Aptamers as Remarkable Diagnostic and Therapeutic Agents in Cancer Treatment. Current Drug Metabolism, 2012, 13, 1130-1144.	1.2	19
108	Comparing human pancreatic cell secretomes by in vitro aptamer selection identifies cyclophilin B as a candidate pancreatic cancer biomarker. Journal of Clinical Investigation, 2012, 122, 1734-1741.	8.2	60
109	Nanostructures Conjugated to Nucleic Acids and Their Applications. ACS Symposium Series, 2012, , 259-288.	0.5	0
110	The current status of cancer biomarker research using tumour-associated antigens for minimal invasive and early cancer diagnostics. Journal of Proteomics, 2012, 76, 102-115.	2.4	41
111	Aptamer based electrochemical sensor for detection of human lung adenocarcinoma A549 cells. Journal of Physics: Conference Series, 2012, 358, 012001.	0.4	9
112	Real-time monitoring biomarker expression of carcinoma cells by surface plasmon resonance biosensors. Chemical Communications, 2012, 48, 10389.	4.1	47
113	Comparative Study of Random and Oriented Antibody Immobilization as Measured by Dual Polarization Interferometry and Surface Plasmon Resonance Spectroscopy. Langmuir, 2012, 28, 997-1004.	3.5	118
114	Photoinduced Monolayer Patterning for the Creation of Complex Protein Patterns. Langmuir, 2012, 28, 16237-16242.	3.5	3
115	Single-Step Nanoplasmonic VEGF ₁₆₅ Aptasensor for Early Cancer Diagnosis. ACS Nano, 2012, 6, 7607-7614.	14.6	127

#	ARTICLE	IF	CITATIONS
116	Hybridization chain reaction-based aptameric system for the highly selective and sensitive detection of protein. <i>Analyst</i> , 2012, 137, 1396.	3.5	63
117	Nanoparticle-Enhanced Surface Plasmon Resonance Detection of Proteins at Attomolar Concentrations: Comparing Different Nanoparticle Shapes and Sizes. <i>Analytical Chemistry</i> , 2012, 84, 1702-1707.	6.5	148
118	Plasmon Biophotonic Arrays for Multi-analyte Biosensing in Complex Media. , 2012, , 127-151.		1
119	On-Chip Synthesis of RNA Aptamer Microarrays for Multiplexed Protein Biosensing with SPR Imaging Measurements. <i>Langmuir</i> , 2012, 28, 8281-8285.	3.5	45
121	Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 23348.	6.7	36
122	Adenosine-Triggered Elimination of Methylene Blue Noncovalently Bound to Immobilized Functional dsDNA-Aptamer Constructs. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6361-6368.	2.6	15
123	Surface Plasmon Resonance-Based Methods. <i>Soft and Biological Matter</i> , 2012, , 235-261.	0.3	1
124	Cancer Biomarker Detection by Surface Plasmon Resonance Biosensors. <i>Clinics in Laboratory Medicine</i> , 2012, 32, 47-72.	1.4	29
125	Surface Plasmon Resonance for Proteomics. <i>Methods in Molecular Biology</i> , 2012, 800, 33-53.	0.9	24
126	Near Infrared Surface Plasmon Resonance Phase Imaging and Nanoparticle-Enhanced Surface Plasmon Resonance Phase Imaging for Ultrasensitive Protein and DNA Biosensing with Oligonucleotide and Aptamer Microarrays. <i>Analytical Chemistry</i> , 2012, 84, 440-445.	6.5	58
127	Detection of Membrane-Binding Proteins by Surface Plasmon Resonance with an All-Aqueous Amplification Scheme. <i>Analytical Chemistry</i> , 2012, 84, 3179-3186.	6.5	76
128	Detection of Non-Amplified Genomic DNA. <i>Soft and Biological Matter</i> , 2012, , .	0.3	11
129	Probing Liquid/Solid Interfaces at the Molecular Level. <i>Chemical Reviews</i> , 2012, 112, 2920-2986.	47.7	373
130	High-Q Optical Sensors for Chemical and Biological Analysis. <i>Analytical Chemistry</i> , 2012, 84, 793-821.	6.5	231
131	Electrochemical nanomaterial-based nucleic acid aptasensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3103-3114.	3.7	99
132	Post-experimental denoising and background subtraction of surface plasmon resonance images for better quantification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 114, 56-63.	3.5	8
133	An aptamer-capture based chromogenic assay for thrombin. <i>Biosensors and Bioelectronics</i> , 2012, 34, 232-237.	10.1	28
134	A sensitive and selective thrombin impedimetric aptasensor based on tailored aptamers obtained by solid-phase synthesis. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 715-720.	7.8	23

#	ARTICLE	IF	CITATIONS
135	A Novel Graphene Oxide-Based Surface Plasmon Resonance Biosensor for Immunoassay. <i>Small</i> , 2013, 9, 2537-2540.	10.0	52
136	Stabilization of ssRNA on Graphene Oxide Surface: An Effective Way to Design Highly Robust RNA Probes. <i>Analytical Chemistry</i> , 2013, 85, 2269-2275.	6.5	70
137	Biomarkers and biosensors for the early diagnosis of lung cancer. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 988-998.	7.8	132
138	Biosensors in the small scale: methods and technology trends. <i>IET Nanobiotechnology</i> , 2013, 7, 7-21.	3.8	39
139	Biosensor technology: recent advances in threat agent detection and medicine. <i>Chemical Society Reviews</i> , 2013, 42, 8733.	38.1	375
140	Design of a universal biointerface for sensitive, selective, and multiplex detection of biomarkers using surface plasmon resonance imaging. <i>Analyst, The</i> , 2013, 138, 6052.	3.5	42
141	Aptamer microarray as a novel bioassay for protein-protein interaction discovery and analysis. <i>Biosensors and Bioelectronics</i> , 2013, 42, 248-255.	10.1	15
142	Recent advances in micro/nano-particles for clinical detection of cancer biomarkers. <i>Analytical Methods</i> , 2013, 5, 5862.	2.7	8
143	Nanostructured Surfaces and Detection Instrumentation for Photonic Crystal Enhanced Fluorescence. <i>Sensors</i> , 2013, 13, 5561-5584.	3.8	37
144	Subpicogram Per Milliliter Detection of Interleukins Using Silicon Photonic Microring Resonators and an Enzymatic Signal Enhancement Strategy. <i>Analytical Chemistry</i> , 2013, 85, 10653-10657.	6.5	56
145	Electrochemical Analysis of Proteins. <i>Springer Briefs in Molecular Science</i> , 2013, , 19-42.	0.1	2
146	Bead assembly magnetorotation as a signal transduction method for protein detection. <i>Biosensors and Bioelectronics</i> , 2013, 48, 26-32.	10.1	14
147	Liquid Crystal Reorientation Induced by Aptamer Conformational Changes. <i>Journal of the American Chemical Society</i> , 2013, 135, 5183-5189.	13.7	70
148	The application of aptamers in cancer research: an up-to-date review. <i>Future Oncology</i> , 2013, 9, 369-376.	2.4	47
149	DNAzyme Footprinting: Detecting Protein-Aptamer Complexation on Surfaces by Blocking DNAzyme Cleavage Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 2072-2075.	13.7	34
150	Modern surface plasmon resonance for bioanalytics and biophysics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11190.	2.8	153
151	Optimized Light-Directed Synthesis of Aptamer Microarrays. <i>Analytical Chemistry</i> , 2013, 85, 5950-5957.	6.5	30
152	Aptamer/thrombin/aptamer-AuNPs sandwich enhanced surface plasmon resonance sensor for the detection of subnanomolar thrombin. <i>Biosensors and Bioelectronics</i> , 2013, 47, 265-270.	10.1	156

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153	Development of a Multiplex Sandwich Aptamer Microarray for the Detection of VEGF165 and Thrombin. Sensors, 2013, 13, 13425-13438.	3.8	26
154	An Overview of Quantitative Proteomic Approaches. Comprehensive Analytical Chemistry, 2014, 63, 111-135.	1.3	0
155	Nanoscaled aptasensors for multi-analyte sensing. BioImpacts, 2014, 4, 205-215.	1.5	31
156	Nucleic Acid Aptamers: Research Tools in Disease Diagnostics and Therapeutics. BioMed Research International, 2014, 2014, 1-13.	1.9	70
157	Determination of Subgroup J Avian Leukosis Virus by Surface Plasmon Resonance Immunosensor. Analytical Letters, 2014, 47, 807-818.	1.8	6
158	Dual signal amplification of surface plasmon resonance imaging for sensitive immunoassay of tumor marker. Analytical Biochemistry, 2014, 453, 16-21.	2.4	35
159	Colorimetric determination of sarcosine in urine samples of prostatic carcinoma by mimic enzyme palladium nanoparticles. Analytica Chimica Acta, 2014, 825, 63-68.	5.4	106
160	Aptamer-based biosensors for biomedical diagnostics. Analyst, The, 2014, 139, 2627.	3.5	435
161	Chitosan/AuNPs Modified Graphene Electrochemical Sensor for Label-Free Human Chorionic Gonadotropin Detection. Electroanalysis, 2014, 26, 2591-2598.	2.9	22
162	A simple colorimetric sensor for potassium ion based on DNA G-quadruplex conformation and salt-induced gold nanoparticles aggregation. Analytical Methods, 2014, 6, 8018-8021.	2.7	26
163	Non-competitive aptamer-based quenching resonance energy transfer assay for homogeneous growth factor quantification. Analyst, The, 2014, 139, 2016.	3.5	29
164	Graphene oxide-enabled tandem signal amplification for sensitive SPRi immunoassay in serum. Chemical Communications, 2014, 50, 2133.	4.1	45
165	Polydopamine-Functionalization of Graphene Oxide to Enable Dual Signal Amplification for Sensitive Surface Plasmon Resonance Imaging Detection of Biomarker. Analytical Chemistry, 2014, 86, 4488-4493.	6.5	127
166	Dual Nanoparticle Amplified Surface Plasmon Resonance Detection of Thrombin at Subattomolar Concentrations. Analytical Chemistry, 2014, 86, 9824-9829.	6.5	44
167	The application of monoclonal antibodies in cancer diagnosis. Expert Review of Molecular Diagnostics, 2014, 14, 97-106.	3.1	35
168	Trace vapour detection at room temperature using Raman spectroscopy. Analyst, The, 2014, 139, 1960-1966.	3.5	9
169	Live Cell Integrated Surface Plasmon Resonance Biosensing Approach to Mimic the Regulation of Angiogenic Switch upon Anti-Cancer Drug Exposure. Analytical Chemistry, 2014, 86, 7305-7310.	6.5	16
170	Sensitive detection of multiple mycotoxins by SPRi with gold nanoparticles as signal amplification tags. Journal of Colloid and Interface Science, 2014, 431, 71-76.	9.4	45

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171	Magnetic-Composite-Modified Polycrystalline Silicon Nanowire Field-Effect Transistor for Vascular Endothelial Growth Factor Detection and Cancer Diagnosis. <i>Analytical Chemistry</i> , 2014, 86, 9443-9450.	6.5	18
173	Advances in Plasmonic Technologies for Point of Care Applications. <i>Chemical Reviews</i> , 2014, 114, 5728-5752.	47.7	337
174	Universal screening platform using three-dimensional small molecule microarray based on surface plasmon resonance imaging. <i>RSC Advances</i> , 2015, 5, 87259-87265.	3.6	5
175	Cancer-cells on a chip for label-free optic detection of secreted molecules. , 2015, , .		1
176	Comparison of sensor structures for the signal amplification of surface plasmon resonance immunoassay using enzyme precipitation. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
177	Nucleic acid aptamers in cancer research, diagnosis and therapy. <i>Chemical Society Reviews</i> , 2015, 44, 1240-1256.	38.1	217
178	Temperature-controlled microintaglio printing for high-resolution micropatterning of RNA molecules. <i>Biosensors and Bioelectronics</i> , 2015, 67, 115-120.	10.1	5
179	Surface Enzyme Chemistries for Ultrasensitive Microarray Biosensing with SPR Imaging. <i>Langmuir</i> , 2015, 31, 9527-9536.	3.5	36
180	A fast and highly sensitive method for the detection of canine distemper virus by the naked eye. <i>Analytical Methods</i> , 2015, 7, 2264-2267.	2.7	20
181	Sensing system for mimicking cancer cell-drug interaction. <i>Science Bulletin</i> , 2015, 60, 1218-1219.	9.0	8
182	Gold Nanoparticles for In Vitro Diagnostics. <i>Chemical Reviews</i> , 2015, 115, 10575-10636.	47.7	725
183	A high sensitive electrochemical aptasensor for the determination of VEGF165 in serum of lung cancer patient. <i>Biosensors and Bioelectronics</i> , 2015, 74, 764-769.	10.1	99
184	Gold Nanoparticles Surface Plasmon Resonance Enhanced Signal for the Detection of Small Molecules on Split-Aptamer Microarrays (Small Molecules Detection from Split-Aptamers). <i>Microarrays (Basel, Switzerland)</i> , 2015, 4, 41-52.	1.4	34
185	Nanobiosensors and Nanobioanalyses. , 2015, , .		10
186	Aptamer Microarrays-Current Status and Future Prospects. <i>Microarrays (Basel, Switzerland)</i> , 2015, 4, 115-132.	1.4	44
187	Single chip SPR and fluorescent ELISA assay of prostate specific antigen. <i>Lab on A Chip</i> , 2015, 15, 4433-4440.	6.0	53
188	Manipulating the in vivo immune response by targeted gene knockdown. <i>Current Opinion in Immunology</i> , 2015, 35, 63-72.	5.5	7
189	Quantification of Epidermal Growth Factor Receptor Expression Level and Binding Kinetics on Cell Surfaces by Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2015, 87, 9960-9965.	6.5	161

#	ARTICLE	IF	CITATIONS
190	Detection of <i>Bacillus thuringiensis</i> Cry1Ab protein based on surface plasmon resonance immunosensor. <i>Analytical Biochemistry</i> , 2015, 468, 59-65.	2.4	14
191	A reusable aptamer-based evanescent wave all-fiber biosensor for highly sensitive detection of Ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015, 66, 11-18.	10.1	95
192	Cancer-Cells on Chip for Label-Free Detection of Secreted Molecules. <i>Biosensors</i> , 2016, 6, 2.	4.7	16
193	Hydrogel-Mediated Patterning of Cellular and Biomolecular Microarrays for Screening Assays and Biosensing. , 2016, , 257-303.		0
194	Electrochemically triggered aptamer immobilization via click reaction for vascular endothelial growth factor detection. <i>Engineering in Life Sciences</i> , 2016, 16, 550-559.	3.6	19
195	Utilization of nanoparticles in microfluidic systems for optical detection. <i>Microsystem Technologies</i> , 2016, 22, 2363-2370.	2.0	13
196	CB[7]-mediated signal amplification approach for sensitive surface plasmon resonance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2016, 81, 207-213.	10.1	20
197	Chemical Strategy to Stepwise Amplification of Signals in Surface Plasmon Resonance Imaging Detection of Saccharides and Glycoconjugates. <i>Analytical Chemistry</i> , 2016, 88, 10011-10018.	6.5	19
198	Investigation of plasmonic signal enhancement based on long range surface plasmon resonance with gold nanoparticle tags. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9897-9904.	5.5	26
199	Microplate based assay for thrombin detection using an RNA aptamer as affinity ligand and cleavage of a chromogenic or fluorescent fluorogenic peptide substrate. <i>Mikrochimica Acta</i> , 2016, 183, 1891-1898.	5.0	10
200	Exploiting Surface-Plasmon-Enhanced Light Scattering for the Design of Ultrasensitive Biosensing Modality. <i>Analytical Chemistry</i> , 2016, 88, 11924-11930.	6.5	26
201	Aptamers in analytics. <i>Analyst</i> , The, 2016, 141, 1551-1568.	3.5	185
202	High-throughput measurement of drug-cyclodextrin kinetic rate constants by a small molecule microarray using surface plasmon resonance imaging. <i>RSC Advances</i> , 2016, 6, 3213-3218.	3.6	6
203	Using fluoro modified RNA aptamers as affinity ligands on magnetic beads for sensitive thrombin detection through affinity capture and thrombin catalysis. <i>Analytical Methods</i> , 2016, 8, 510-516.	2.7	7
204	Aptamer-based nanobiosensors. <i>Biosensors and Bioelectronics</i> , 2016, 76, 2-19.	10.1	333
205	Microfluidic Plasmonic Biosensor for Breast Cancer Antigen Detection. <i>Plasmonics</i> , 2016, 11, 45-51.	3.4	44
206	An electrochemical biosensor to simultaneously detect VEGF and PSA for early prostate cancer diagnosis based on graphene oxide/ssDNA/PLLA nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 89, 598-605.	10.1	193
207	Flow immunosensor system with an electrode replacement unit for continuous cortisol monitoring for fish. <i>Sensing and Bio-Sensing Research</i> , 2017, 13, 122-127.	4.2	10

#	ARTICLE	IF	CITATIONS
208	Sensing Through Surface Plasmon Resonance Technique. International Journal of Behavioral and Consultation Therapy, 2017, , 39-53.	0.4	2
209	A real-time control system of gene expression using ligand-bound nucleic acid aptamer for metabolic engineering. Metabolic Engineering, 2017, 42, 85-97.	7.0	10
210	A critical review of advances in surface plasmon resonance imaging sensitivity. TrAC - Trends in Analytical Chemistry, 2017, 97, 354-362.	11.4	34
213	Visual microarray detection for human IgE based on silver nanoparticles. Sensors and Actuators B: Chemical, 2017, 239, 45-51.	7.8	14
214	Biosensing Based on Surface- Enhanced Raman Spectroscopy. , 2017, , 111-156.		0
215	New approach for monitoring fish stress: A novel enzyme-functionalized label-free immunosensor system for detecting cortisol levels in fish. Biosensors and Bioelectronics, 2017, 93, 57-64.	10.1	34
216	Aptamer-based biosensors and nanosensors for the detection of vascular endothelial growth factor (VEGF): A review. Biosensors and Bioelectronics, 2018, 110, 23-37.	10.1	147
217	Molecular modeling and SPRi investigations of interleukin 6 (IL6) protein and DNA aptamers. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1934-1947.	3.5	18
218	Inâ€situâ€Synthese von hochdichten RNAâ€Mikroarrays mittels Photolithographie. Angewandte Chemie, 2018, 130, 15477-15481.	2.0	2
219	Highâ€Density RNA Microarrays Synthesized Inâ€...Situ by Photolithography. Angewandte Chemie - International Edition, 2018, 57, 15257-15261.	13.8	31
220	Pharmaceutical perspectives of selection criteria and toxicity profiling of nanotheranostic agents. , 2018, , 45-74.		3
221	Single-layer graphene-coated gold chip for enhanced SPR imaging immunoassay. Sensors and Actuators B: Chemical, 2018, 273, 1548-1555.	7.8	21
222	Future of Cellular and Molecular Diagnostics. , 2018, , 203-270.		2
223	A microfluidic competitive immuno-aggregation assay for high sensitivity cell secretome detection. Organogenesis, 2018, 14, 67-81.	1.2	4
224	Antiinflammatory Potential of Medicinal Plants: A Source for Therapeutic Secondary Metabolites. Advances in Agronomy, 2018, , 131-183.	5.2	23
225	MicroRNA detection on microsensor arrays by SPR imaging measurements with enzymatic signal enhancement. Biosensors and Bioelectronics, 2019, 142, 111565.	10.1	33
226	Creating an in vivo bifunctional gene expression circuit through an aptamer-based regulatory mechanism for dynamic metabolic engineering in Bacillus subtilis. Metabolic Engineering, 2019, 55, 179-190.	7.0	29
227	Spotting, Transcription and In Situ Synthesis: Three Routes for the Fabrication of RNA Microarrays. Computational and Structural Biotechnology Journal, 2019, 17, 862-868.	4.1	10

#	ARTICLE	IF	CITATIONS
228	Sensitive Detection of Iodine in Rat Brain Dialysate by Dark Field Microscopy Based on Iodine Etching Au@Ag Nanocubes. Chinese Journal of Analytical Chemistry, 2019, 47, 1695-1707.	1.7	1
229	Surface Plasmon Enhanced Light Scattering Biosensing: Size Dependence on the Gold Nanoparticle Tag. Sensors, 2019, 19, 323.	3.8	15
230	An automated microfluidic system for selection of aptamer probes against ovarian cancer tissues. Biomicrofluidics, 2019, 13, 014114.	2.4	18
231	High-sensitive immunosensing of protein biomarker based on interfacial recognition-induced homogeneous exponential transcription. Analytica Chimica Acta, 2019, 1067, 107-114.	5.4	6
232	Rapid selection of aptamers based on protein microarray. RSC Advances, 2019, 9, 9762-9768.	3.6	5
233	Enhanced Sensitivity in Nanopore Sensing of Cancer Biomarkers in Human Blood via Click Chemistry. Small, 2019, 15, e1804078.	10.0	31
234	Recent advances in surface plasmon resonance biosensors for microRNAs detection. Biosensors and Bioelectronics, 2020, 169, 112599.	10.1	74
235	Recent progress on developing of plasmon biosensing of tumor biomarkers: Efficient method towards early stage recognition of cancer. Biomedicine and Pharmacotherapy, 2020, 132, 110850.	5.6	27
236	Nanobiotechnology approaches for miniaturized diagnostics. , 2020, , 297-333.		1
237	A novel label-free impedimetric immunosensor for sensitive detection of prostate specific antigen using Au nanoparticles/MWCNTs- graphene quantum dots nanocomposite. Microchemical Journal, 2020, 159, 105301.	4.5	36
238	Recent advances in aptamer-based sensors for breast cancer diagnosis: special cases for Nanomaterial-based VEGF, HER2, and MUC1 aptasensors. Mikrochimica Acta, 2020, 187, 549.	5.0	33
239	Finding the Optimal Surface Density of Aptamer Monolayers by SPR Imaging Detection-based Aptamer Microarrays. Electroanalysis, 2020, 32, 851-858.	2.9	20
240	Aptamer-Based Sensing of Small Organic Molecules by Measuring Levitation Coordinate of Single Microsphere in Combined Acoustic-Gravitational Field. ACS Omega, 2020, 5, 3542-3549.	3.5	7
243	Review- A Review of Electrochemical Aptasensors for Label-Free Cancer Diagnosis. Journal of the Electrochemical Society, 2020, 167, 067511.	2.9	48
244	Establishment of a universal and sensitive plasmonic biosensor platform based on the hybridization chain reaction (HCR) amplification induced by a triple-helix molecular switch. Analyst, The, 2020, 145, 3864-3870.	3.5	5
245	A sensitive spectrophotometric ellipsometry based Aptasensor for the vascular endothelial growth factor detection. Talanta, 2021, 225, 121982.	5.5	4
246	Discussion of the protein characterization techniques used in the identification of membrane protein targets corresponding to tumor cell aptamers. Chinese Chemical Letters, 2021, 32, 40-47.	9.0	37
247	Nanostructures for Biosensing, with a Brief Overview on Cancer Detection, IoT, and the Role of Machine Learning in Smart Biosensors. Sensors, 2021, 21, 1253.	3.8	43

#	ARTICLE	IF	CITATIONS
248	Digital plasmonic immunosorbent assay for dynamic imaging detection of protein binding. Sensors and Actuators B: Chemical, 2021, 348, 130711.	7.8	6
249	Antibody Microarrays as Tools for Biomarker Discovery. Methods in Molecular Biology, 2011, 785, 159-182.	0.9	30
250	Multiplexed Surface Plasmon Resonance Imaging for Protein Biomarker Analysis. Methods in Molecular Biology, 2013, 949, 473-490.	0.9	4
251	Current and Future Trends in the Clinical Diagnosis of Rickettsioses Sensu Lato. International Journal of Tropical Disease & Health, 2014, 4, 147-181.	0.1	2
252	Aptamer Microarrays. , 2009, , 287-308.		0
253	Functional Proteomics in Oncology: A Focus on Antibody Array-Based Technologies. , 2010, , 105-123.		0
254	Doping gen�tico e poss�veis metodologias de detec��o. Revista Brasileira De Ciencias Do Esporte, 2011, 33, 1055-1069.	0.4	0
255	Aptasensors: The New Trends. Series in Sensors, 2013, , 259-292.	0.0	0
256	Plasmonic Sensors for Analysis of Proteins and an Oncologic Drug in Human Serum. , 2015, , 305-333.		1
257	Organized Cell Adherent Array (OC2A) for Real-Time Multiplex Detection of Secreted Molecules. International Journal of Biosensors & Bioelectronics, 2016, 1, .	0.2	0
258	Potential Applications of Aptamers for Targeting Senescent Cells. Healthy Ageing and Longevity, 2020, , 181-200.	0.2	0
260	RNA aptamers and their therapeutic and diagnostic applications. International Journal of Biochemistry and Molecular Biology, 2013, 4, 27-40.	0.1	67
263	Label-free photonics biosensor transducing nano-biological events. , 2014, 2, 32-38.		1
264	Luminescent Aptamer-Based Bioassays for Sensitive Detection of Food Allergens. Biosensors, 2022, 12, 644.	4.7	3
265	Boronate Affinity-Amplified Electrochemical Aptasensing of Lipopolysaccharide. Analytical Chemistry, 2022, 94, 17733-17738.	6.5	14
266	Two Biosensors for the Determination of VEGF-R2 in Plasma by Array SPRi. Molecules, 2023, 28, 155.	3.8	3
267	Aptamer-based rapid diagnosis for point-of-care application. Microfluidics and Nanofluidics, 2023, 27, .	2.2	15
268	Dually Amplified Electrochemical Aptasensor for Endotoxin Detection via Target-Assisted Electrochemically Mediated ATRP. Analytical Chemistry, 2023, 95, 5463-5469.	6.5	9

#	ARTICLE	IF	CITATIONS
269	ç,,jæ©Ÿèj"éçã•ã,%æœ%œæ©Ÿèj"éçã;1/4šã,1/2ãf•ãf~ãfŠãfŽãf†ã,~ãfŽãfã,ãf1/4â^†é†Žã•é€²ã±•. Vacuum and Surface Science, 2023, 66,	0.1	0
270	From Inorganic to Organic Surfaces: Progress of Soft Nanotechnology. E-Journal of Surface Science and Nanotechnology, 2023, 21, 92-97.	0.4	0
271	One Single Tube Reaction of Aptasensor-Based Magnetic Sensing System for Selective Fluorescent Detection of VEGF in Plasma. Biosensors, 2023, 13, 574.	4.7	0
272	Analysis of Molecules and Biomolecules. Lecture Notes in Quantum Chemistry II, 2023, , 197-244.	0.3	0
273	Multiplex detection methods for mycotoxins in agricultural products: A systematic review. Food Control, 2024, 158, 110207.	5.5	0
274	Laser-induced Fluorescence Detection of Cold-induced RNA Binding Protein Based on the Fluorescence Enhancement Effect of Photonic Crystal. , 2023, , .		0
275	SPR biosensing: Cancer diagnosis and biomarkers quantification. Microchemical Journal, 2024, 197, 109792.	4.5	1
276	The impact of quantum dot on the SPR detection improvement of molecular interactions between Rap1 interacting factor1 (Rif1) and G4. Sensing and Bio-Sensing Research, 2024, 43, 100621.	4.2	0