Raja Chinnappan

List of Publications by Year
in descending order

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40 papers	1,369 citations	361413 20 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	1810 citing authors

#	Article	IF	Citations
1	Long period grating based biosensor for the detection of Escherichia coli bacteria. Biosensors and Bioelectronics, 2012, 35, 308-312.	10.1	178
2	Early detection of lung cancer biomarkers through biosensor technology: A review. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 93-103.	2.8	128
3	Selection, Characterization, and Biosensing Application of High Affinity Congener-Specific Microcystin-Targeting Aptamers. Environmental Science & Technology, 2012, 46, 10697-10703.	10.0	109
4	Detection of bacteria using bacteriophages as recognition elements immobilized on long-period fiber gratings. Optics Express, 2011, 19, 7971.	3.4	108
5	High affinity truncated DNA aptamers for the development of fluorescence based progesterone biosensors. Analytical Biochemistry, 2017, 525, 78-84.	2.4	72
6	Label-free bacteria detection using evanescent mode of a suspended core terahertz fiber. Optics Express, 2012, 20, 5344.	3.4	64
7	Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer. Mikrochimica Acta, 2018, 185, 61.	5.0	61
8	Rapid colorimetric lactoferrin-based sandwich immunoassay on cotton swabs for the detection of foodborne pathogenic bacteria. Talanta, 2018, 185, 275-280.	5.5	57
9	Aptameric biosensor for the sensitive detection of major shrimp allergen, tropomyosin. Food Chemistry, 2020, 314, 126133.	8.2	56
10	Folding of the lysine riboswitch: importance of peripheral elements for transcriptional regulation. Nucleic Acids Research, 2011, 39, 3373-3387.	14.5	47
11	Pirenzepine Promotes the Dimerization of Muscarinic M1 Receptors through a Three-step Binding Process. Journal of Biological Chemistry, 2009, 284, 19533-19543.	3.4	43
12	A rapid colorimetric immunoassay for the detection of pathogenic bacteria on poultry processing plants using cotton swabs and nanobeads. Mikrochimica Acta, 2018, 185, 164.	5.0	33
13	Electrochemical SELEX Technique for the Selection of DNA Aptamers against the Small Molecule 11-Deoxycortisol. ACS Applied Bio Materials, 2019, 2, 2624-2632.	4.6	29
14	Fluorometric determination of okadaic acid using a truncated aptamer. Mikrochimica Acta, 2019, 186, 406.	5.0	29
15	InÂvitro selection of DNA aptamers and their integration in a competitive voltammetric biosensor for azlocillin determination in waste water. Analytica Chimica Acta, 2020, 1101, 149-156.	5.4	27
16	Electrochemical determination of zearalenone using aÂlabel-free competitive aptasensor. Mikrochimica Acta, 2020, 187, 266.	5.0	27
17	Development of magnetic nanoparticle based calorimetric assay for the detection of bovine mastitis in cow milk. Analytical Biochemistry, 2017, 523, 58-64.	2.4	24
18	Aptamers: Potential Diagnostic and Therapeutic Agents for Blood Diseases. Molecules, 2022, 27, 383.	3.8	24

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19	An aptamer based fluorometric microcystin-LR assay using DNA strand-based competitive displacement. Mikrochimica Acta, 2019, 186, 435.	5.0	22
20	Anti-VCAM-1 and Anti-IL4RÎ± Aptamer-Conjugated Super Paramagnetic Iron Oxide Nanoparticles for Enhanced Breast Cancer Diagnosis and Therapy. Molecules, 2020, 25, 3437.	3.8	21
21	Fluorescence monitoring of riboswitch transcription regulation using a dual molecular beacon assay. Nucleic Acids Research, 2013, 41, e106-e106.	14.5	20
22	Peptide substrate screening for the diagnosis of SARS-CoV-2 using fluorescence resonance energy transfer (FRET) assay. Mikrochimica Acta, 2021, 188, 137.	5.0	20
23	In Vitro Selection of Specific DNA Aptamers Against the Anti-Coagulant Dabigatran Etexilate. Scientific Reports, 2018, 8, 13290.	3.3	18
24	Highly sensitive multiplex detection of microRNA by competitive DNA strand displacement fluorescence assay. Talanta, 2019, 200, 487-493.	5.5	15
25	Aptamer selection and aptasensor construction for bone density biomarkers. Talanta, 2021, 224, 121818.	5.5	14
26	Determination of minimal sequence for zearalenone aptamer by computational docking and application on an indirect competitive electrochemical aptasensor. Analytical and Bioanalytical Chemistry, 2021, 413, 3861-3872.	3.7	14
27	Development of Rapid Immuno-based Nanosensors for the Detection of Pathogenic Bacteria in Poultry Processing Plants. Procedia Technology, 2017, 27, 23-26.	1.1	13
28	On stabilization of a neutral aromatic ligand by Ï€â€“cation interactions in monoclonal antibodies. Biophysical Chemistry, 2011, 154, 35-40.	2.8	12
29	Probing high-affinity aptamer binding region and development of aptasensor platform for the detection of cylindrospermopsin. Analytical and Bioanalytical Chemistry, 2020, 412, 4691-4701.	3.7	12
30	Low-cost colorimetric diagnostic screening assay for methicillin resistant Staphylococcus aureus. Talanta, 2021, 225, 121946.	5.5	11
31	Ultrasensitive Labelâ€free Electrochemical Immunosensors for Multiple Cell Surface Biomarkers on Liver Cancer Stem Cells. Electroanalysis, 2017, 29, 1994-2000.	2.9	10
32	Spectral Differentiation and Immunoaffinity Capillary Electrophoresis Separation of Enantiomeric Benzo(a)pyrene Diol Epoxide-Derived DNA Adducts. Chemical Research in Toxicology, 2007, 20, 1192-1199.	3.3	9
33	Selection, characterization, and electrochemical biosensing application of DNA aptamers for sepiapterin. Talanta, 2020, 216, 120951.	5.5	9
34	Development of a Simple, Fast, and Cost-Effective Nanobased Immunoassay Method for Detecting Norovirus in Food Samples. ACS Omega, 2020, 5, 12162-12165.	3.5	8
35	Electrochemical selection of a DNA aptamer, and an impedimetric method for determination of the dedicator of cytokinesis 8 by self-assembly of a thiolated aptamer on a gold electrode. Mikrochimica Acta, 2019, 186, 828.	5.0	6
36	Highly sensitive and selective lateral flow aptasensor for anti-coagulant dabigatran etexilate determination in blood. Talanta, 2022, 236, 122887.	5.5	5

#	Article	IF	Citations
37	Exploring the Utility of ssDNA Aptamers Directed against Snake Venom Toxins as New Therapeutics for Snakebite Envenoming. Toxins, 2022, 14, 469.	3.4	5
38	Label-free Impedimetric Immunosensors for Liver Cancer Stem Cells. Procedia Technology, 2017, 27, 287-289.	1.1	4
39	Mapping the binding region of aptamer targeting small molecule: Dabigatran etexilate, an anti-coagulant. Talanta, 2020, 218, 121132.	5.5	4
40	Simple and rapid peptide nanoprobe biosensor for the detection of Legionellaceae. Analyst, The, 2021, 146, 3568-3577.	3.5	1