

Raja Chinnappan

List of Publications by Year in descending order

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Version: 2024-02-01

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	Highly sensitive and selective lateral flow aptasensor for anti-coagulant dabigatran etexilate determination in blood. <i>Talanta</i> , 2022, 236, 122887.	5.5	5
2	Aptamers: Potential Diagnostic and Therapeutic Agents for Blood Diseases. <i>Molecules</i> , 2022, 27, 383.	3.8	24
3	Exploring the Utility of ssDNA Aptamers Directed against Snake Venom Toxins as New Therapeutics for Snakebite Envenoming. <i>Toxins</i> , 2022, 14, 469.	3.4	5
4	Aptamer selection and aptasensor construction for bone density biomarkers. <i>Talanta</i> , 2021, 224, 121818.	5.5	14
5	Low-cost colorimetric diagnostic screening assay for methicillin resistant <i>Staphylococcus aureus</i> . <i>Talanta</i> , 2021, 225, 121946.	5.5	11
6	Peptide substrate screening for the diagnosis of SARS-CoV-2 using fluorescence resonance energy transfer (FRET) assay. <i>Mikrochimica Acta</i> , 2021, 188, 137.	5.0	20
7	Determination of minimal sequence for zearalenone aptamer by computational docking and application on an indirect competitive electrochemical aptasensor. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3861-3872.	3.7	14
8	Simple and rapid peptide nanoprobe biosensor for the detection of Legionellaceae. <i>Analyst</i> , The, 2021, 146, 3568-3577.	3.5	1
9	Aptameric biosensor for the sensitive detection of major shrimp allergen, tropomyosin. <i>Food Chemistry</i> , 2020, 314, 126133.	8.2	56
10	In vitro selection of DNA aptamers and their integration in a competitive voltammetric biosensor for azlocillin determination in waste water. <i>Analytica Chimica Acta</i> , 2020, 1101, 149-156.	5.4	27
11	Anti-VCAM-1 and Anti-IL4R β Aptamer-Conjugated Super Paramagnetic Iron Oxide Nanoparticles for Enhanced Breast Cancer Diagnosis and Therapy. <i>Molecules</i> , 2020, 25, 3437.	3.8	21
12	Probing high-affinity aptamer binding region and development of aptasensor platform for the detection of cylindrospermopsin. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4691-4701.	3.7	12
13	Electrochemical determination of zearalenone using a label-free competitive aptasensor. <i>Mikrochimica Acta</i> , 2020, 187, 266.	5.0	27
14	Selection, characterization, and electrochemical biosensing application of DNA aptamers for sepiapterin. <i>Talanta</i> , 2020, 216, 120951.	5.5	9
15	Mapping the binding region of aptamer targeting small molecule: Dabigatran etexilate, an anti-coagulant. <i>Talanta</i> , 2020, 218, 121132.	5.5	4
16	Development of a Simple, Fast, and Cost-Effective Nanobased Immunoassay Method for Detecting Norovirus in Food Samples. <i>ACS Omega</i> , 2020, 5, 12162-12165.	3.5	8
17	Electrochemical SELEX Technique for the Selection of DNA Aptamers against the Small Molecule 11-Deoxycortisol. <i>ACS Applied Bio Materials</i> , 2019, 2, 2624-2632.	4.6	29
18	Fluorometric determination of okadaic acid using a truncated aptamer. <i>Mikrochimica Acta</i> , 2019, 186, 406.	5.0	29

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19	An aptamer based fluorometric microcystin-LR assay using DNA strand-based competitive displacement. <i>Mikrochimica Acta</i> , 2019, 186, 435.	5.0	22
20	Highly sensitive multiplex detection of microRNA by competitive DNA strand displacement fluorescence assay. <i>Talanta</i> , 2019, 200, 487-493.	5.5	15
21	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. <i>Mikrochimica Acta</i> , 2019, 186, 828.	5.0	6
22	Early detection of lung cancer biomarkers through biosensor technology: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 164, 93-103.	2.8	128
23	A rapid colorimetric immunoassay for the detection of pathogenic bacteria on poultry processing plants using cotton swabs and nanobeads. <i>Mikrochimica Acta</i> , 2018, 185, 164.	5.0	33
24	Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer. <i>Mikrochimica Acta</i> , 2018, 185, 61.	5.0	61
25	Rapid colorimetric lactoferrin-based sandwich immunoassay on cotton swabs for the detection of foodborne pathogenic bacteria. <i>Talanta</i> , 2018, 185, 275-280.	5.5	57
26	In Vitro Selection of Specific DNA Aptamers Against the Anti-Coagulant Dabigatran Etexilate. <i>Scientific Reports</i> , 2018, 8, 13290.	3.3	18
27	Development of magnetic nanoparticle based calorimetric assay for the detection of bovine mastitis in cow milk. <i>Analytical Biochemistry</i> , 2017, 523, 58-64.	2.4	24
28	High affinity truncated DNA aptamers for the development of fluorescence based progesterone biosensors. <i>Analytical Biochemistry</i> , 2017, 525, 78-84.	2.4	72
29	Ultrasensitive Label-free Electrochemical Immunosensors for Multiple Cell Surface Biomarkers on Liver Cancer Stem Cells. <i>Electroanalysis</i> , 2017, 29, 1994-2000.	2.9	10
30	Label-free Impedimetric Immunosensors for Liver Cancer Stem Cells. <i>Procedia Technology</i> , 2017, 27, 287-289.	1.1	4
31	Development of Rapid Immuno-based Nanosensors for the Detection of Pathogenic Bacteria in Poultry Processing Plants. <i>Procedia Technology</i> , 2017, 27, 23-26.	1.1	13
32	Fluorescence monitoring of riboswitch transcription regulation using a dual molecular beacon assay. <i>Nucleic Acids Research</i> , 2013, 41, e106-e106.	14.5	20
33	Label-free bacteria detection using evanescent mode of a suspended core terahertz fiber. <i>Optics Express</i> , 2012, 20, 5344.	3.4	64
34	Selection, Characterization, and Biosensing Application of High Affinity Congener-Specific Microcystin-Targeting Aptamers. <i>Environmental Science & Technology</i> , 2012, 46, 10697-10703.	10.0	109
35	Long period grating based biosensor for the detection of Escherichia coli bacteria. <i>Biosensors and Bioelectronics</i> , 2012, 35, 308-312.	10.1	178
36	Detection of bacteria using bacteriophages as recognition elements immobilized on long-period fiber gratings. <i>Optics Express</i> , 2011, 19, 7971.	3.4	108

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37	On stabilization of a neutral aromatic ligand by π -cation interactions in monoclonal antibodies. <i>Biophysical Chemistry</i> , 2011, 154, 35-40.	2.8	12
38	Folding of the lysine riboswitch: importance of peripheral elements for transcriptional regulation. <i>Nucleic Acids Research</i> , 2011, 39, 3373-3387.	14.5	47
39	Pirenzepine Promotes the Dimerization of Muscarinic M1 Receptors through a Three-step Binding Process. <i>Journal of Biological Chemistry</i> , 2009, 284, 19533-19543.	3.4	43
40	Spectral Differentiation and Immunoaffinity Capillary Electrophoresis Separation of Enantiomeric Benzo(<i>a</i>)pyrene Diol Epoxide-Derived DNA Adducts. <i>Chemical Research in Toxicology</i> , 2007, 20, 1192-1199.	3.3	9