Ciara O Sullivan

List of Publications by Citations

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209 papers	7,290 citations	43 h-index	76 g-index
218 ext. papers	8,070 ext. citations	6.1 avg, IF	6.25 L-index

#	Paper	IF	Citations
209	Reagentless, reusable, ultrasensitive electrochemical molecular beacon aptasensor. *Journal of the American Chemical Society*, **2006**, 128, 117-24	16.4	527
208	Commercial quartz crystal microbalances I theory and applications. *Biosensors and Bioelectronics*, **1999**, 14, 663-670	11.8	487
207	Aptamers: molecular tools for analytical applications. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 989-1007	4.4	460
206	Aptasensors--the future of biosensing?. *Analytical and Bioanalytical Chemistry*, **2002**, 372, 44-8	4.4	345
205	Recombinase polymerase amplification: Basics, applications and recent advances. *TrAC - Trends in Analytical Chemistry*, **2018**, 98, 19-35	14.6	242
204	Reusable impedimetric aptasensor. *Analytical Chemistry*, **2005**, 77, 6320-3	7.8	234
203	Aptasensor development: elucidation of critical parameters for optimal aptamer performance. *Analytical Chemistry*, **2004**, 76, 7053-63	7.8	189
202	Aptamer conformational switch as sensitive electrochemical biosensor for potassium ion recognition. *Chemical Communications*, **2006**, 3432-4	5.8	166
201	Development of a quartz crystal microbalance (QCM) immunosensor for the detection of Listeria monocytogenes. *Enzyme and Microbial Technology*, **2001**, 29, 635-638	3.8	114
200	DNA biosensors based on gold nanoparticles-modified graphene oxide for the detection of breast cancer biomarkers for early diagnosis. *Bioelectrochemistry*, **2017**, 118, 91-99	5.6	91
199	Novel electrochemical immunosensors for seafood toxin analysis. *Toxicon*, **2002**, 40, 1267-74	2.8	91
198	Electrocatalytic oxidation of hydrazine at o-aminophenol grafted modified glassy carbon electrode: Reusable hydrazine amperometric sensor. *Journal of Electroanalytical Chemistry*, **2006**, 592, 139-146	4.1	89
197	Amperometric immunosensor for carcinoembryonic antigen in colon cancer samples based on monolayers of dendritic bipodal scaffolds. *Analytical Chemistry*, **2010**, 82, 1712-9	7.8	82
196	Demonstration of labeless detection of food pathogens using electrochemical redox probe and screen printed gold electrodes. *Biosensors and Bioelectronics*, **2003**, 18, 881-9	11.8	81
195	Displacement enzyme linked aptamer assay. *Analytical Chemistry*, **2005**, 77, 4774-84	7.8	74
194	Electron permeable self-assembled monolayers of dithiolated aromatic scaffolds on gold for biosensor applications. *Analytical Chemistry*, **2008**, 80, 2556-63	7.8	73
193	Electrochemical immunosensor for detection of celiac disease toxic gliadin in foodstuff. *Analytical Chemistry*, **2008**, 80, 9265-71	7.8	70

192	Zinc ionophore activity of quercetin and epigallocatechin-gallate: from Hepa 1-6 cells to a liposome model. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 8085-93	5.7	69
191	Use of oxygen sensors to non-destructively measure the oxygen content in modified atmosphere and vacuum packed beef: impact of oxygen content on lipid oxidation. *Meat Science*, **2002**, 61, 285-90	6.4	67
190	Comparison of different methods for generation of single-stranded DNA for SELEX processes. *Analytical and Bioanalytical Chemistry*, **2012**, 404, 835-42	4.4	61
189	Development of an interferent free amperometric biosensor for determination of l-lysine in food. *Analytica Chimica Acta*, **2000**, 412, 111-119	6.6	58
188	Amperometric immunosensor for detection of celiac disease toxic gliadin based on Fab fragments. *Analytical Chemistry*, **2009**, 81, 5299-307	7.8	57
187	Aptamer Lateral Flow Assays for Ultrasensitive Detection of Conglutin Combining Recombinase Polymerase Amplification and Tailed Primers. *Analytical Chemistry*, **2016**, 88, 10701-10709	7.8	54
186	Green synthesis of gold nanoparticles using glycerol-incorporated nanosized liposomes. *Langmuir*, **2011**, 27, 10894-900	4	54
185	Integrated microfluidic platform for the electrochemical detection of breast cancer markers in patient serum samples. *Lab on A Chip*, **2011**, 11, 625-31	7.2	54
184	Layer-by-Layer Biomolecular Assemblies for Enzyme Sensors, Immunosensing, and Nanoarchitectures. *Analytical Letters*, **2003**, 36, 2551-2569	2.2	54
183	Electrochemical detection of Francisella tularensis genomic DNA using solid-phase recombinase polymerase amplification. *Biosensors and Bioelectronics*, **2014**, 54, 674-8	11.8	53
182	Ability of thrombin to act as molecular chaperone, inducing formation of quadruplex structure of thrombin-binding aptamer. *Analytical Biochemistry*, **2005**, 341, 194-7	3.1	51
181	Elucidation of the mechanism of single-stranded DNA interaction with methylene blue: A spectroscopic approach. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 218, 26-32	4.7	49
180	Real-time apta-PCR for 20 000-fold improvement in detection limit. *Molecular BioSystems*, **2009**, 5, 548-53		48
179	Thermal stability of diazonium derived and thiol-derived layers on gold for application in genosensors. *Electrochemistry Communications*, **2010**, 12, 1045-1048	5.1	48
178	Electrocatalytic sensing of NADH on a glassy carbon electrode modified with electrografted o-aminophenol film. *Electrochemistry Communications*, **2006**, 8, 1719-1725	5.1	48
177	Multiplexed isothermal nucleic acid amplification. *Analytical Biochemistry*, **2018**, 545, 20-30	3.1	47
176	Simultaneous detection of ascorbate and uric acid using a selectively catalytic surface. *Analytica Chimica Acta*, **2007**, 583, 182-9	6.6	47
175	Isothermal solid-phase amplification system for detection of Yersinia pestis. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 671-6	4.4	46

174	Human cytomegalovirus detection by a quartz crystal microbalance immunosensor. *Enzyme and Microbial Technology*, **2000**, 27, 639-645	3.8	46
173	Electronic "Off-On" Molecular Switch for Rapid Detection of Thrombin. *Electroanalysis*, **2006**, 18, 1957-1962	3	45
172	Detection of antigliadin autoantibodies in celiac patient samples using a cyclodextrin-based supramolecular biosensor. *Analytical Chemistry*, **2011**, 83, 2931-8	7.8	44
171	Electrochemical detection of celiac disease-related anti-tissue transglutaminase antibodies using thiol based surface chemistry. *Biosensors and Bioelectronics*, **2011**, 26, 3852-6	11.8	44
170	Alkaline phosphatase as a label for immunoassay using amperometric detection with a variety of substrates and an optimal buffer system. *Analytica Chimica Acta*, **1999**, 393, 95-102	6.6	44
169	Increasing the sensitivity of Listeria monocytogenes assays: evaluation using ELISA and amperometric detection. *Analyst, The*, **1999**, 124, 295-9	5	44
168	Rapid determination of total hardness in water using fluorescent molecular aptamer beacon. *Analytica Chimica Acta*, **2008**, 610, 105-11	6.6	43
167	Direct detection of myoglobin in whole blood using a disposable amperometric immunosensor. *Analytica Chimica Acta*, **2002**, 460, 141-150	6.6	43
166	DNA aptamers against the Lup an 1 food allergen. *PLoS ONE*, **2012**, 7, e35253	3.7	43
165	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. *Electrophoresis*, **2009**, 30, 3398-405	3.6	42
164	Label-free detection of gliadin food allergen mediated by real-time apta-PCR. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 515-24	4.4	41
163	Solid-contact potentiometric aptasensor based on aptamer functionalized carbon nanotubes for the direct determination of proteins. *Analyst, The*, **2010**, 135, 1037-41	5	41
162	Electrochemical genosensor array for the simultaneous detection of multiple high-risk human papillomavirus sequences in clinical samples. *Analytica Chimica Acta*, **2012**, 715, 93-8	6.6	39
161	Development of a disposable immunosensor for the detection of human heart fatty-acid binding protein in human whole blood using screen-printed carbon electrodes. *Talanta*, **2002**, 57, 501-10	6.2	39
160	Detection and quantification of the toxic marine microalgae Karlodinium veneficum and Karlodinium armiger using recombinase polymerase amplification and enzyme-linked oligonucleotide assay. *Analytica Chimica Acta*, **2018**, 1039, 140-148	6.6	38
159	Extraction, isolation, and characterization of globulin proteins from Lupinus albus. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2752-8	5.7	38
158	Electrochemical biosensor for the multiplexed detection of human papillomavirus genes. *Biosensors and Bioelectronics*, **2010**, 26, 1684-7	11.8	37
157	Electrochemical immunosensor detection of antigliadin antibodies from real human serum. *Biosensors and Bioelectronics*, **2011**, 26, 4471-6	11.8	36

156	Curvature-tuned preparation of nanoliposomes. *Langmuir*, **2009**, 25, 12604-13	4	36
155	Development of an immunosensor for the determination of allergy antibody (IgE) in blood samples. *Analytica Chimica Acta*, **2001**, 442, 45-53	6.6	36
154	Amperometric sensing of ascorbic acid using a disposable screen-printed electrode modified with electrografted o-aminophenol film. *Analyst, The*, **2008**, 133, 1736-41	5	35
153	Advances in aptamers-based lateral flow assays. *TrAC - Trends in Analytical Chemistry*, **2017**, 97, 385-398	14.6	33
152	Biosensors42 Years and Counting. *Analytical Letters*, **2004**, 37, 1481-1496	2.2	33
151	Development of an ultrasensitive immunoassay for rapid measurement of okadaic acid and its isomers. *Analytical Chemistry*, **1999**, 71, 4198-202	7.8	33
150	A new interference-free lysine biosensor using a non-conducting polymer film. *Biosensors and Bioelectronics*, **1998**, 13, 1245-50	11.8	32
149	A Quartz Crystal Microbalance (QCM) Sensor for the Detection of Bacillus cereus. *Analytical Letters*, **2003**, 36, 731-747	2.2	32
148	Duplex Lateral Flow Assay for the Simultaneous Detection of Yersinia pestis and Francisella tularensis. *Analytical Chemistry*, **2018**, 90, 12745-12751	7.8	31
147	Signal-enhancing thermosensitive liposomes for highly sensitive immunosensor development. *Analytical Chemistry*, **2011**, 83, 563-70	7.8	30
146	Development of a gold nano-particle-based fluorescent molecular beacon for detection of cystic fibrosis associated mutation. *Biosensors and Bioelectronics*, **2010**, 26, 307-13	11.8	30
145	Electrochemical metallisation of carbon electrodes. *Analytica Chimica Acta*, **1998**, 373, 261-270	6.6	30
144	Amperometric determination of ascorbic acid in real samples using a disposable screen-printed electrode modified with electrografted o-aminophenol film. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 10452-5	5.7	30
143	Electrochemcial characterisation and hybridisation efficiency of co-assembled monolayers of PEGylated ssDNA and mercaptohexanol on planar gold electrodes. *Biosensors and Bioelectronics*, **2010**, 25, 978-83	11.8	29
142	Microstructures by Selective Desorption of Self-Assembled Monolayer from Polycrystalline Gold Electrodes. *Electroanalysis*, **2007**, 19, 1467-1475	3	29
141	Monoclonal antibody-based competitive assay for the sensitive detection of coeliac disease toxic prolamins. *Analytica Chimica Acta*, **2005**, 551, 105-114	6.6	29
140	High Affinity Aptamer for the Detection of the Biogenic Amine Histamine. *Analytical Chemistry*, **2019**, 91, 7104-7111	7.8	28
139	FRET-based dimeric aptamer probe for selective and sensitive Lup an 1 allergen detection. *Biosensors and Bioelectronics*, **2014**, 54, 207-10	11.8	28

138	Real-time and label-free ring-resonator monitoring of solid-phase recombinase polymerase amplification. *Biosensors and Bioelectronics*, **2015**, 73, 130-137	11.8	28
137	A compact hybrid-multiplexed potentiostat for real-time electrochemical biosensing applications. *Biosensors and Bioelectronics*, **2013**, 47, 482-9	11.8	28
136	Amperometric immunosensor for granulocyte-macrophage colony-stimulating factor using screen-printed electrodes. *Analytica Chimica Acta*, **1999**, 389, 171-178	6.6	28
135	Evaluation of techniques for generation of single-stranded DNA for quantitative detection. *Analytical Biochemistry*, **2012**, 431, 132-8	3.1	27
134	Electrochemical surface structuring with palladium nanoparticles for signal enhancement. *Langmuir* , **2010**, 26, 12293-9	4	27
133	Label free optical sensor for Avidin based on single gold nanoparticles functionalized with aptamers. *Journal of Biophotonics*, **2009**, 2, 227-31	3.1	27
132	Electrochemically deposited palladium as a substrate for self-assembled monolayers. *Langmuir*, **2007**, 23, 10823-30	4	27
131	Layer-by-layer self-assembly of peroxidase on gold electrodes based on complementary cyclodextrin–adamantane supramolecular interactions. *Soft Matter*, **2009**, 5, 400-406	3.6	26
130	Ultrasensitive aptamer based detection of β-conglutin food allergen. *Food Chemistry*, **2014**, 165, 419-23	8.5	25
129	Liposomal nanoreactors for the synthesis of monodisperse palladium nanoparticles using glycerol. *Langmuir*, **2013**, 29, 15405-13	4	25
128	Automated microsystem for electrochemical detection of cancer markers. *Electrophoresis*, **2011**, 32, 926-30	3.0	25
127	Microsystem for isolation of fetal DNA from maternal plasma by preparative size separation. *Clinical Chemistry*, **2009**, 55, 2144-52	5.5	25
126	Reagentless detection of alkaline phosphatase using electrochemically grafted films of aromatic diazonium salts. *Journal of Electroanalytical Chemistry*, **2006**, 587, 140-147	4.1	25
125	The characterization and validation of 17β-estradiol binding aptamers. *Journal of Steroid Biochemistry and Molecular Biology*, **2017**, 167, 14-22	5.1	24
124	Electrochemical quantification of DNA amplicons via the detection of non-hybridised guanine bases on low-density electrode arrays. *Biosensors and Bioelectronics*, **2009**, 24, 2064-70	11.8	24
123	Rapid and efficient method for the size separation of homogeneous fluorescein-encapsulating liposomes. *Journal of Liposome Research*, **2009**, 19, 148-54	6.1	24
122	Bipodal PEGylated alkanethiol for the enhanced electrochemical detection of genetic markers involved in breast cancer. *Biosensors and Bioelectronics*, **2010**, 26, 1500-6	11.8	24
121	Revisiting the use of sPLA-sensitive liposomes in cancer therapy. *Journal of Controlled Release*, **2017**, 261, 163-173	11.7	23

120	Electrochemical detection of Piscirickettsia salmonis genomic DNA from salmon samples using solid-phase recombinase polymerase amplification. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 8611-8620	4.4	23
119	Selection and characterization of DNA aptamers against the steroid testosterone. *Mikrochimica Acta*, **2017**, 184, 1631-1639	5.8	22
118	Conglutin dual aptamers binding distinct aptatopes. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 875-84	4.4	22
117	Selection of 2'F-modified RNA aptamers against prostate-specific antigen and their evaluation for diagnostic and therapeutic applications. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 9149-57	4.4	22
116	Probing high-affinity 11-mer DNA aptamer against Lup an 1 (conglutin). *Analytical and Bioanalytical Chemistry*, **2013**, 405, 9343-9	4.4	22
115	Immunorecognition magnetic supports for the development of an electrochemical immunoassay for azaspiracid detection in mussels. *Biosensors and Bioelectronics*, **2017**, 92, 200-206	11.8	21
114	Amperometric immunosensor for the determination of IgA deficiency in human serum samples. *Biosensors and Bioelectronics*, **2012**, 33, 134-8	11.8	20
113	Melting temperature of surface-tethered DNA. *Analytical Biochemistry*, **2010**, 406, 34-40	3.1	20
112	Enhanced solid-phase recombinase polymerase amplification and electrochemical detection. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 3261-3269	4.4	19
111	Functional detection of proteins by caged aptamers. *ACS Chemical Biology*, **2012**, 7, 360-6	4.9	19
110	Electrochemical fabrication of nanostructured surfaces for enhanced response. *ChemPhysChem*, **2008**, 9, 920-7	3.2	19
109	The use of polymers coupled with metallised electrodes to allow H(2)O(2) detection in the presence of electrochemical interferences. *Talanta*, **1999**, 49, 667-78	6.2	19
108	Detection of Ostreopsis cf. ovata in environmental samples using an electrochemical DNA-based biosensor. *Science of the Total Environment*, **2019**, 689, 655-661	10.2	18
107	Rapid DNA hybridization in microfluidics. *TrAC - Trends in Analytical Chemistry*, **2012**, 33, 9-22	14.6	18
106	Tuning of Oxidation Potential of Ferrocene for Ratiometric Redox Labeling and Coding of Nucleotides and DNA. *Chemistry - A European Journal*, **2020**, 26, 1286-1291	4.8	18
105	Electrochemiluminescence DNA sensor array for multiplex detection of biowarfare agents. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 6657-67	4.4	17
104	Microsystem for field-amplified electrokinetic trapping preconcentration of DNA at poly(ethylene terephthalate) membranes. *Analytical Chemistry*, **2009**, 81, 2904-11	7.8	17
103	Electro-catalytically active Au@Pt nanoparticles for hydrogen evolution reaction: an insight into a tryptophan mediated supramolecular interface towards a universal core-shell synthesis approach. *RSC Advances*, **2014**, 4, 48458-48464	3.7	16

102	Ultrasensitive and rapid detection of Econglutin combining aptamers and isothermal recombinase polymerase amplification. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 143-149	4.4	16
101	Methylene blue as an electrochemical indicator for DF508 cystic fibrosis mutation detection. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 1423-32	4.4	16
100	Redox-cycling type electrochemiluminescence in aqueous medium. A new principle for the detection of proteins labeled with a ruthenium chelate. *Journal of Electroanalytical Chemistry*, **1999** , 474, 192-194	4.1	16
99	Electrochemical Genetic Profiling of Single Cancer Cells. *Analytical Chemistry*, **2017**, 89, 3378-3385	7.8	15
98	Detection of azaspiracids in mussels using electrochemical immunosensors for fast screening in monitoring programs. *Sensors and Actuators B: Chemical*, **2018**, 262, 818-827	8.5	15
97	Electrochemiluminescence (ECL) immunosensor for detection of Francisella tularensis on screen-printed gold electrode array. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 7147-53	4.4	15
96	Automated microfluidically controlled electrochemical biosensor for the rapid and highly sensitive detection of Francisella tularensis. *Biosensors and Bioelectronics*, **2014**, 59, 342-9	11.8	15
95	Amperometric detection of antibodies in serum: performance of self-assembled cyclodextrin/cellulose polymer interfaces as antigen carriers. *Organic and Biomolecular Chemistry*, **2011**, 9, 4770-3	3.9	15
94	Duplex PCR-ELONA for the detection of pork adulteration in meat products. *Food Chemistry*, **2019**, 287, 354-362	8.5	14
93	Electrochemical genosensor for the direct detection of tailed PCR amplicons incorporating ferrocene labelled dATP. *Biosensors and Bioelectronics*, **2019**, 134, 76-82	11.8	14
92	Biofunctionalization of Polyoxometalates with DNA Primers, Their Use in the Polymerase Chain Reaction (PCR) and Electrochemical Detection of PCR Products. *Chemistry - A European Journal*, **2015**, 21, 17721-7	4.8	14
91	Labelless electrochemical melting curve analysis for rapid mutation detection. *Analytical Methods*, **2010**, 2, 1461	3.2	14
90	Aptatope mapping of the binding site of a progesterone aptamer on the steroid ring structure. *Analytical Biochemistry*, **2017**, 531, 8-11	3.1	13
89	Colorimetric DNA-based assay for the specific detection and quantification of Ostreopsis cf. ovata and Ostreopsis cf. siamensis in the marine environment. *Harmful Algae*, **2019**, 84, 27-35	5.3	13
88	DNA surface nanopatterning by selective reductive desorption from polycrystalline gold electrode. *Electrochemistry Communications*, **2009**, 11, 664-667	5.1	13
87	Microfluorimeter with disposable polymer chip for detection of coeliac disease toxic gliadin. *Lab on A Chip*, **2009**, 9, 3535-42	7.2	13
86	Electrochemical melting-curve analysis. *Electrochemistry Communications*, **2010**, 12, 1030-1033	5.1	13
85	Detection of isothermally amplified ostreid herpesvirus 1 DNA in Pacific oyster (Crassostrea gigas) using a miniaturised electrochemical biosensor. *Talanta*, **2020**, 207, 120308	6.2	13

84	Self-assembled monolayer-based immunoassays for okadaic acid detection in seawater as monitoring tools. *Marine Environmental Research*, **2018**, 133, 6-14	3.3	13
83	PCR Incorporation of Polyoxometalate Modified Deoxynucleotide Triphosphates and Their Application in Molecular Electrochemical Sensing of Yersinia pestis. *Chemistry - A European Journal*, **2017**, 23, 10597-10603	4.8	12
82	Controlled Zn-mediated grafting of thin layers of bipodal diazonium salt on gold and carbon substrates. *Chemistry - A European Journal*, **2015**, 21, 671-81	4.8	12
81	Addressing the Analytical Challenges for the Detection of Ciguatoxins Using an Electrochemical Biosensor. *Analytical Chemistry*, **2020**, 92, 4858-4865	7.8	12
80	Gold nanoparticle fluorescent molecular beacon for low-resolution DQ2 gene HLA typing. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 1001-9	4.4	12
79	Development of Solid-State Electrochemiluminescence (ECL) Sensor Based on Ru(bpy)32+-Encapsulated Silica Nanoparticles for the Detection of Biogenic Polyamines. *Chemosensors*, **2015**, 3, 178-189	4	12
78	A bienzymatic amperometric immunosensor exploiting supramolecular construction for ultrasensitive protein detection. *Chemical Communications*, **2012**, 48, 1045-7	5.8	12
77	Multilayered catalytic biosensor self-assembled on cyclodextrin-modified surfaces. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2011**, 69, 355-360		12
76	Electrode surface nanostructuring via nanoparticle electronucleation for signal enhancement in electrochemical genosensors. *Biosensors and Bioelectronics*, **2011**, 26, 3962-6	11.8	12
75	Gold nanoparticle aptamer assay for the determination of histamine in foodstuffs. *Mikrochimica Acta*, **2020**, 187, 452	5.8	12
74	Site-directed introduction of disulfide groups on antibodies for highly sensitive immunosensors. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 5337-46	4.4	12
73	Automated genotyping of circulating tumor cells. *Expert Review of Molecular Diagnostics*, **2010**, 10, 723-9	3.8	11
72	Carborane- or Metallacarborane-Linked Nucleotides for Redox Labeling. Orthogonal Multipotential Coding of all Four DNA Bases for Electrochemical Analysis and Sequencing. *Journal of the American Chemical Society*, **2021**, 143, 7124-7134	16.4	11
71	Yersinia pestis detection using biotinylated dNTPs for signal enhancement in lateral flow assays. *Analytica Chimica Acta*, **2020**, 1112, 54-61	6.6	11
70	Aptamer Selection against a Trichomonas vaginalis Adhesion Protein for Diagnostic Applications. *ACS Infectious Diseases*, **2018**, 4, 1306-1315	5.5	11
69	Surface plasmon resonance imaging (SPRi) for analysis of DNA aptamer:Conglutin interactions. *Methods*, **2016**, 97, 20-6	4.6	10
68	Supramolecular confinement of polymeric electron transfer mediator on gold surface for picomolar detection of DNA. *Soft Matter*, **2011**, 7, 10925	3.6	10
67	Cystic fibrosis: a label-free detection approach based on thermally modulated electrochemical impedance spectroscopy. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2565-74	4.4	10

66	One-Pot SELEX: Identification of Specific Aptamers against Diverse Steroid Targets in One Selection. *ACS Omega*, **2019**, 4, 20188-20196	3.9	10
65	A simple liposome assay for the screening of zinc ionophore activity of polyphenols. *Food Chemistry* , **2016**, 197, 916-23	8.5	9
64	Sensitive detection of cancer cells using light-mediated apta-PCR. *Methods*, **2016**, 97, 104-9	4.6	9
63	Electrochemical primer extension based on polyoxometalate electroactive labels for multiplexed detection of single nucleotide polymorphisms. *Biosensors and Bioelectronics*, **2018**, 117, 201-206	11.8	9
62	Facile electrochemical hydrogenation and chlorination of glassy carbon to produce highly reactive and uniform surfaces for stable anchoring of thiolated molecules. *Chemistry - A European Journal*, **2014**, 20, 7646-54	4.8	9
61	Antibodies to wheat high-molecular-weight glutenin subunits in patients with celiac disease. *International Archives of Allergy and Immunology*, **2012**, 159, 428-34	3.7	9
60	Low-medium resolution HLA-DQ2/DQ8 typing for coeliac disease predisposition analysis by colorimetric assay. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 807-19	4.4	9
59	Electrochemical genosensor based on three-dimensional DNA polymer brushes monolayers. *Electrochemistry Communications*, **2011**, 13, 1155-1158	5.1	9
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57	Amperometric supramolecular genosensor self-assembled on cyclodextrin-modified surfaces. *Electrochemistry Communications*, **2011**, 13, 578-581	5.1	9
56	Development of Biosensor Array for Rapid Detection of Cardiac Markers: Immunosensor for Detection of Free Cardiac Troponin I. *Analytical Letters*, **2003**, 36, 1903-1920	2.2	9
55	Supramolecular Amperometric Immunosensor for Detection of Human Chorionic Gonadotropin. *Electroanalysis*, **2014**, 26, 1481-1487	3	8
54	Medium-high resolution electrochemical genotyping of HLA-DQ2/DQ8 for detection of predisposition to coeliac disease. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 2757-69	4.4	8
53	Fabrication and functionalization of PCB gold electrodes suitable for DNA-based electrochemical sensing. *Bio-Medical Materials and Engineering*, **2014**, 24, 1705-14	1	8
52	Isothermal amplification using modified primers for rapid electrochemical analysis of coeliac disease associated DQB1*02 HLA allele. *Analytical Biochemistry*, **2018**, 556, 16-22	3.1	8
51	Disulfide-modified antigen for detection of celiac disease-associated anti-tissue transglutaminase autoantibodies. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 3799-3806	4.4	7
50	Amperometric detection of Francisella tularensis genomic sequence on Zn-mediated diazonium modified substrates. *Electrochemistry Communications*, **2015**, 53, 6-10	5.1	7
49	Detecting harmful algal blooms with nucleic acid amplification-based biotechnological tools. *Science of the Total Environment*, **2020**, 749, 141605	10.2	7

48	Direct electrochemical detection of enzyme labelled, isothermally amplified DNA. *Analytical Biochemistry*, **2020**, 598, 113705	3.1	6
47	Detecting Harmful Algal Blooms with Isothermal Molecular Strategies. *Trends in Biotechnology*, **2019**, 37, 1278-1281	15.1	6
46	Diffusion-controlled synthesis of gold nanoparticles: nano-liposomes as mass transfer barrier. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	6
45	Development of an immunosensor for the detection of Francisella tularensis antibodies. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 4685-90	4.4	6
44	Highly sensitive gold-overoxidized polypyrrole nanocomposite immunosensor for antitransglutaminase antibody. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 167-177	2	6
43	Highly sensitive colorimetric enzyme-linked oligonucleotide assay based on cyclodextrin-modified polymeric surfaces. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 195-202	4.4	6
42	Electrochemical molecular beacon DNA biosensor for the detection and discrimination of the DF508 cystic fibrosis mutation. *Journal of Electroanalytical Chemistry*, **2011**, 662, 322-327	4.1	6
41	Overoxidized Polypyrrole Incorporated with Gold Nanoparticles as Platform for Impedimetric Anti-Transglutaminase Immunosensor. *Analytical Letters*, **2011**, 44, 1956-1966	2.2	6
40	Colorimetric quantification of mRNA expression in rare tumour cells amplified by multiple ligation-dependent probe amplification. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 2325-34	4.4	6
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