Ioanis Katakis

List of Publications by Year
in descending order

76 papers	2,992 citations	186265 28 h-index	168389 53 g-index
76 all docs	76 docs citations	76 times ranked	3321 citing authors

#	Article	IF	Citations
1	Combination of ferrocene decorated gold nanoparticles and engineered primers for the direct reagentless determination of isothermally amplified DNA. Mikrochimica Acta, 2021, 188, 117.	5.0	5
2	Direct electrochemical detection of enzyme labelled, isothermally amplified DNA. Analytical Biochemistry, 2020, 598, 113705.	2.4	7
3	Electrochemical genosensor for the direct detection of tailed PCR amplicons incorporating ferrocene labelled dATP. Biosensors and Bioelectronics, 2019, 134, 76-82.	10.1	24
4	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.	4.8	19
5	Multiplexed isothermal nucleic acid amplification. Analytical Biochemistry, 2018, 545, 20-30.	2.4	75
6	Isothermal amplification using modified primers for rapid electrochemical analysis of coeliac disease associated DQB1*02 HLA allele. Analytical Biochemistry, 2018, 556, 16-22.	2.4	10
7	Editorial for Analytical Biochemistry special issue on RPA. Analytical Biochemistry, 2018, 556, 125-128.	2.4	0
8	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.	5.4	45
9	Electrochemical primer extension based on polyoxometalate electroactive labels for multiplexed detection of single nucleotide polymorphisms. Biosensors and Bioelectronics, 2018, 117, 201-206.	10.1	16
10	Enhanced solid-phase recombinase polymerase amplification and electrochemical detection. Analytical and Bioanalytical Chemistry, 2017, 409, 3261-3269.	3.7	29
11	Disulfide-modified antigen for detection of celiac disease-associated anti-tissue transglutaminase autoantibodies. Analytical and Bioanalytical Chemistry, 2017, 409, 3799-3806.	3.7	10
12	Isothermal solid-phase amplification system for detection of Yersinia pestis. Analytical and Bioanalytical Chemistry, 2016, 408, 671-676.	3.7	56
13	Bleedâ€toâ€read disposable microsystems for the genetic and serological analysis of celiac disease markers with amperometric detection. Electrophoresis, 2015, 36, 1920-1926.	2.4	4
14	DNA biosensor based on hybridization refractory mutation system approach for single mismatch detection. Analytical Biochemistry, 2015, 474, 66-68.	2.4	6
15	Modified primers for rapid and direct electrochemical analysis of coeliac disease associated HLA alleles. Biosensors and Bioelectronics, 2015, 73, 64-70.	10.1	14
16	Medium-high resolution electrochemical genotyping of HLA-DQ2/DQ8 for detection of predisposition to coeliac disease. Analytical and Bioanalytical Chemistry, 2014, 406, 2757-2769.	3.7	10
17	Eletrochemically Actuated Stopâ€“Go Valves for Capillary Forceâ€Operated Diagnostic Microsystems. ChemPhysChem, 2013, 14, 2164-2173.	2.1	0
18	Highly sensitive gold-overoxidized polypyrrole nanocomposite immunosensor for antitransglutaminase antibody. Journal of Bioactive and Compatible Polymers, 2013, 28, 167-177.	2.1	10

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19	Facile and versatile approaches to enhancing electrochemical performance of screen printed electrodes. Electrochimica Acta, 2013, 91, 166-172.	5.2	49
20	Electrochemically actuated passive stopâ€“go microvalves for flow control in microfluidic systems. Microelectronic Engineering, 2013, 111, 416-420.	2.4	10
21	Visualization and measurement of capillary-driven blood flow using spectral domain optical coherence tomography. Microfluidics and Nanofluidics, 2012, 13, 227-237.	2.2	19
22	Antibodies to Wheat High-Molecular-Weight Glutenin Subunits in Patients with Celiac Disease. International Archives of Allergy and Immunology, 2012, 159, 428-434.	2.1	11
23	Numerical simulation of wall mass transfer rates in capillary-driven flow in microchannels. International Communications in Heat and Mass Transfer, 2012, 39, 1066-1072.	5.6	11
24	Economic and environmental evaluation of microalgae biodiesel production using process simulation tools. Computer Aided Chemical Engineering, 2012, , 547-551.	0.5	9
25	Lowâ€“medium resolution HLA-DQ2/DQ8 typing for coeliac disease predisposition analysis by colorimetric assay. Analytical and Bioanalytical Chemistry, 2012, 403, 807-819.	3.7	10
26	Amperometric immunosensor for the determination of IgA deficiency in human serum samples. Biosensors and Bioelectronics, 2012, 33, 134-138.	10.1	22
27	Gold nanoparticle fluorescent molecular beacon for low-resolution DQ2 gene HLA typing. Analytical and Bioanalytical Chemistry, 2012, 402, 1001-1009.	3.7	13
28	Extraction, Isolation, and Characterization of Globulin Proteins from Lupinus albus. Journal of Agricultural and Food Chemistry, 2011, 59, 2752-2758.	5.2	44
29	Electrochemical immunosensor detection of antigliadin antibodies from real human serum. Biosensors and Bioelectronics, 2011, 26, 4471-4476.	10.1	41
30	Electrochemical detection of celiac disease-related anti-tissue transglutaminase antibodies using thiol based surface chemistry. Biosensors and Bioelectronics, 2011, 26, 3852-3856.	10.1	53
31	Screen-printed integrated microsystem for the electrochemical detection of pathogens. Electrochimica Acta, 2010, 55, 4261-4266.	5.2	22
32	Electrochemical biosensor microarray functionalized by means of biomolecule friendly photolithography. Biosensors and Bioelectronics, 2010, 25, 2115-2121.	10.1	26
33	Development of an integrated microsystem for the multiplexed detection of breast cancer markers in serum using electrochemical immunosensors. , 2010, , .		0
34	Screen-printed microsystems for the ultrasensitive electrochemical detection of alkaline phosphatase. Analyst, The, 2010, 135, 1276.	3.5	15
35	Screen printing as a holistic manufacturing method for multifunctional microsystems and microreactors. Journal of Micromechanics and Microengineering, 2009, 19, 115007.	2.6	8
36	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. Electrophoresis, 2009, 30, 3398-3405.	2.4	45

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37	Label free optical sensor for Avidin based on single gold nanoparticles functionalized with aptamers. Journal of Biophotonics, 2009, 2, 227-231.	2.3	33
38	Copper UPD as non-specific adsorption barrier in electrochemical displacement immunosensors. Biosensors and Bioelectronics, 2009, 24, 2205-2210.	10.1	12
39	Microfluorimeter with disposable polymer chip for detection of coeliac disease toxic gliadin. Lab on A Chip, 2009, 9, 3535.	6.0	13
40	Controlled electrophoretic deposition of multifunctional nanomodules for bioelectrochemical applications. Biosensors and Bioelectronics, 2008, 24, 55-59.	10.1	9
41	Aptamers: molecular tools for analytical applications. Analytical and Bioanalytical Chemistry, 2008, 390, 989-1007.	3.7	510
42	Towards a target label-free suboptimum oligonucleotide displacement-based detection system. Analytical and Bioanalytical Chemistry, 2008, 391, 2145-52.	3.7	6
43	Ultrasensitive detection based on an aptamer beacon electron transfer chain. Electrochemistry Communications, 2008, 10, 1533-1536.	4.7	43
44	Target label-free, reagentless electrochemical DNA biosensor based on sub-optimum displacement. Talanta, 2008, 75, 432-441.	5.5	23
45	Efficiency of a Bienzyme Sequential Reaction System Immobilized on Polyelectrolyte Multilayer-Coated Colloids. Langmuir, 2008, 24, 14108-14114.	3.5	63
46	Analysis of surface-tension-driven blood flow using spectral domain optical coherence tomography. , 2008, , .		0
47	Aptamers as elements of bioelectronic devices. Molecular BioSystems, 2007, 3, 620.	2.9	23
48	Enzymatic self-wiring. Electrochemistry Communications, 2007, 9, 1715-1718.	4.7	4
49	Different strategies to develop an electrochemical thrombin aptasensor. Electrochemistry Communications, 2006, 8, 505-511.	4.7	150
50	Characterisation and determination of stability and functionality of biofunctionalised colloidal gold nanoparticles. Analytica Chimica Acta, 2006, 556, 306-312.	5.4	9
51	Electrochemically arrayed and addressed DNA multi-sensor platforms. Sensors and Actuators B: Chemical, 2006, 114, 897-902.	7.8	8
52	Site-Directed Immobilization of Proteins Through Electrochemical Deprotection on Electroactive Self-Assembled Monolayers. Electroanalysis, 2006, 18, 1879-1884.	2.9	7
53	Electronic â€˜Off-Onâ€™ Molecular Switch for Rapid Detection of Thrombin. Electroanalysis, 2006, 18, 1957-1962.	2.9	49
54	Towards a fast-responding, label-free electrochemical DNA biosensor. Analytical and Bioanalytical Chemistry, 2005, 381, 1033-1035.	3.7	16

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55	A multianalyte flow electrochemical cell: application to the simultaneous determination of carbohydrates based on bioelectrocatalytic detection. Biosensors and Bioelectronics, 2005, 21, 774-781.	10.1	28
56	Strategy for the development of sensor platforms for multi-analysis. International Journal of Environmental Analytical Chemistry, 2004, 84, 799-807.	3.3	3
57	DNA biochip arraying, detection and amplification strategies. TrAC - Trends in Analytical Chemistry, 2004, 23, 49-62.	11.4	114
58	Amperometric Sensing at High Temperature with a â€œWiredâ€•Thermostable Glucose-6-phosphate Dehydrogenase fromAquifexaeolicus. Analytical Chemistry, 2003, 75, 3898-3901.	6.5	22
59	Amperometric flow-injection determination of sucrose with a mediated tri-enzyme electrode based on sucrose phosphorylase and electrocatalytic oxidation of NADH. Biosensors and Bioelectronics, 2001, 16, 61-68.	10.1	29
60	Reagentless biosensors based on self-deposited redox polyelectrolyte-oxidoreductases architectures. Biosensors and Bioelectronics, 2000, 15, 43-52.	10.1	105
61	Electrocatalytic oxidation of NADH at graphite electrodes modified with osmium phenanthrolinedione. Journal of Electroanalytical Chemistry, 1999, 464, 208-214.	3.8	42
62	Amperometric immunosensors and enzyme electrodes for environmental applications. Analytica Chimica Acta, 1998, 362, 47-57.	5.4	98
63	Reagentless carbon paste phosphate biosensors: preliminary studies. Sensors and Actuators B: Chemical, 1998, 47, 13-20.	7.8	31
64	Catalytic and Affinity Amperometric Biosensors for Phenols, Phosphates, and Atrazine: How Transduction Can Improve Performance. Teubner-Reihe Umwelt, 1998, , 90-107.	0.1	0
65	Improved mediated tyrosinase amperometric enzyme electrodes. Journal of Electroanalytical Chemistry, 1997, 425, 1-11.	3.8	77
66	Catalytic electrooxidation of NADH for dehydrogenase amperometric biosensors. Mikrochimica Acta, 1997, 126, 11-32.	5.0	192
67	A new type of hydrophilic carbon paste electrodes for biosensor manufacturing: binder paste electrodes. Biosensors and Bioelectronics, 1997, 12, 267-275.	10.1	21
68	Amperometric mediated carbon paste biosensor based on D-fructose dehydrogenase for the determination of fructose in food analysis. Biosensors and Bioelectronics, 1997, 12, 1233-1243.	10.1	58
69	â€˜Wiringâ€™ of glucose oxidase and lactate oxidase within a hydrogel made with poly(vinyl pyridine) complexed with [Os(4,4â€²-dimethoxy-2,2â€²-bipyridine)2Cl]+/2+. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4131-4136.	1.7	53
70	Reagentless amperometric glucose dehydrogenase biosensor based on electrocatalytic oxidation of NADH by osmium phenanthrolinedione mediator. Analyst, The, 1996, 121, 1891-1895.	3.5	37
71	On-line glucose monitoring by using microdialysis sampling and amperometric detection based on ?wired? glucose oxidase in carbon paste. Mikrochimica Acta, 1995, 121, 31-40.	5.0	26
72	Design, Characterization, and One-Point in vivo Calibration of a Subcutaneously Implanted Glucose Electrode. Analytical Chemistry, 1994, 66, 3131-3138.	6.5	103

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73	Electrostatic Control of the Electron-Transfer Enabling Binding of Recombinant Glucose Oxidase and Redox Polyelectrolytes. Journal of the American Chemical Society, 1994, 116, 3617-3618.	13.7	38
74	L-.alpha.-glycerophosphate and L-lactate electrodes based on the electrochemical "wiring" of oxidases. Analytical Chemistry, 1992, 64, 1008-1013.	6.5	90
75	Direct Electrical Communication between Graphite Electrodes and Surface Adsorbed Glucose Oxidase/Redox Polymer Complexes. Angewandte Chemie International Edition in English, 1990, 29, 82-84.	4.4	91
76	Glucose Biosensors. , 0, , 199-217.		8