

# Ioanis Katakis

## List of Publications by Year in descending order

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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	Aptamers: molecular tools for analytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 989-1007.	3.7	510
2	Catalytic electrooxidation of NADH for dehydrogenase amperometric biosensors. <i>Mikrochimica Acta</i> , 1997, 126, 11-32.	5.0	192
3	Different strategies to develop an electrochemical thrombin aptasensor. <i>Electrochemistry Communications</i> , 2006, 8, 505-511.	4.7	150
4	DNA biochip arraying, detection and amplification strategies. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 49-62.	11.4	114
5	Reagentless biosensors based on self-deposited redox polyelectrolyte-oxidoreductases architectures. <i>Biosensors and Bioelectronics</i> , 2000, 15, 43-52.	10.1	105
6	Design, Characterization, and One-Point in vivo Calibration of a Subcutaneously Implanted Glucose Electrode. <i>Analytical Chemistry</i> , 1994, 66, 3131-3138.	6.5	103
7	Amperometric immunosensors and enzyme electrodes for environmental applications. <i>Analytica Chimica Acta</i> , 1998, 362, 47-57.	5.4	98
8	Direct Electrical Communication between Graphite Electrodes and Surface Adsorbed Glucose Oxidase/Redox Polymer Complexes. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 82-84.	4.4	91
9	L-alpha-glycerophosphate and L-lactate electrodes based on the electrochemical "wiring" of oxidases. <i>Analytical Chemistry</i> , 1992, 64, 1008-1013.	6.5	90
10	Improved mediated tyrosinase amperometric enzyme electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1997, 425, 1-11.	3.8	77
11	Multiplexed isothermal nucleic acid amplification. <i>Analytical Biochemistry</i> , 2018, 545, 20-30.	2.4	75
12	Efficiency of a Bienzyme Sequential Reaction System Immobilized on Polyelectrolyte Multilayer-Coated Colloids. <i>Langmuir</i> , 2008, 24, 14108-14114.	3.5	63
13	Amperometric mediated carbon paste biosensor based on D-fructose dehydrogenase for the determination of fructose in food analysis. <i>Biosensors and Bioelectronics</i> , 1997, 12, 1233-1243.	10.1	58
14	Isothermal solid-phase amplification system for detection of <i>Yersinia pestis</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 671-676.	3.7	56
15	Wiring™ of glucose oxidase and lactate oxidase within a hydrogel made with poly(vinyl pyridine) complexed with [Os(4,4'-dimethoxy-2,2'-bipyridine)2Cl]+/2+. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 4131-4136.	1.7	53
16	Electrochemical detection of celiac disease-related anti-tissue transglutaminase antibodies using thiol based surface chemistry. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3852-3856.	10.1	53
17	Electronic Off-On™ Molecular Switch for Rapid Detection of Thrombin. <i>Electroanalysis</i> , 2006, 18, 1957-1962.	2.9	49
18	Facile and versatile approaches to enhancing electrochemical performance of screen printed electrodes. <i>Electrochimica Acta</i> , 2013, 91, 166-172.	5.2	49

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19	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. <i>Electrophoresis</i> , 2009, 30, 3398-3405.	2.4	45
20	Detection and quantification of the toxic marine microalgae <i>Karlodinium veneficum</i> and <i>Karlodinium armiger</i> using recombinase polymerase amplification and enzyme-linked oligonucleotide assay. <i>Analytica Chimica Acta</i> , 2018, 1039, 140-148.	5.4	45
21	Extraction, Isolation, and Characterization of Globulin Proteins from <i>Lupinus albus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 2752-2758.	5.2	44
22	Ultrasensitive detection based on an aptamer beacon electron transfer chain. <i>Electrochemistry Communications</i> , 2008, 10, 1533-1536.	4.7	43
23	Electrocatalytic oxidation of NADH at graphite electrodes modified with osmium phenanthroline-dione. <i>Journal of Electroanalytical Chemistry</i> , 1999, 464, 208-214.	3.8	42
24	Electrochemical immunosensor detection of antigliadin antibodies from real human serum. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4471-4476.	10.1	41
25	Electrostatic Control of the Electron-Transfer Enabling Binding of Recombinant Glucose Oxidase and Redox Polyelectrolytes. <i>Journal of the American Chemical Society</i> , 1994, 116, 3617-3618.	13.7	38
26	Reagentless amperometric glucose dehydrogenase biosensor based on electrocatalytic oxidation of NADH by osmium phenanthroline-dione mediator. <i>Analyst</i> , The, 1996, 121, 1891-1895.	3.5	37
27	Label free optical sensor for Avidin based on single gold nanoparticles functionalized with aptamers. <i>Journal of Biophotonics</i> , 2009, 2, 227-231.	2.3	33
28	Reagentless carbon paste phosphate biosensors: preliminary studies. <i>Sensors and Actuators B: Chemical</i> , 1998, 47, 13-20.	7.8	31
29	Amperometric flow-injection determination of sucrose with a mediated tri-enzyme electrode based on sucrose phosphorylase and electrocatalytic oxidation of NADH. <i>Biosensors and Bioelectronics</i> , 2001, 16, 61-68.	10.1	29
30	Enhanced solid-phase recombinase polymerase amplification and electrochemical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3261-3269.	3.7	29
31	A multianalyte flow electrochemical cell: application to the simultaneous determination of carbohydrates based on bioelectrocatalytic detection. <i>Biosensors and Bioelectronics</i> , 2005, 21, 774-781.	10.1	28
32	On-line glucose monitoring by using microdialysis sampling and amperometric detection based on ?wired? glucose oxidase in carbon paste. <i>Mikrochimica Acta</i> , 1995, 121, 31-40.	5.0	26
33	Electrochemical biosensor microarray functionalized by means of biomolecule friendly photolithography. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2115-2121.	10.1	26
34	Electrochemical genosensor for the direct detection of tailed PCR amplicons incorporating ferrocene labelled dATP. <i>Biosensors and Bioelectronics</i> , 2019, 134, 76-82.	10.1	24
35	Aptamers as elements of bioelectronic devices. <i>Molecular BioSystems</i> , 2007, 3, 620.	2.9	23
36	Target label-free, reagentless electrochemical DNA biosensor based on sub-optimum displacement. <i>Talanta</i> , 2008, 75, 432-441.	5.5	23

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37	Amperometric Sensing at High Temperature with a "Wired" Thermostable Glucose-6-phosphate Dehydrogenase from <i>Aquifexaelicus</i> . <i>Analytical Chemistry</i> , 2003, 75, 3898-3901.	6.5	22
38	Screen-printed integrated microsystem for the electrochemical detection of pathogens. <i>Electrochimica Acta</i> , 2010, 55, 4261-4266.	5.2	22
39	Amperometric immunosensor for the determination of IgA deficiency in human serum samples. <i>Biosensors and Bioelectronics</i> , 2012, 33, 134-138.	10.1	22
40	A new type of hydrophilic carbon paste electrodes for biosensor manufacturing: binder paste electrodes. <i>Biosensors and Bioelectronics</i> , 1997, 12, 267-275.	10.1	21
41	Visualization and measurement of capillary-driven blood flow using spectral domain optical coherence tomography. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 227-237.	2.2	19
42	Colorimetric DNA-based assay for the specific detection and quantification of <i>Ostreopsis cf. ovata</i> and <i>Ostreopsis cf. siamensis</i> in the marine environment. <i>Harmful Algae</i> , 2019, 84, 27-35.	4.8	19
43	Towards a fast-responding, label-free electrochemical DNA biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1033-1035.	3.7	16
44	Electrochemical primer extension based on polyoxometalate electroactive labels for multiplexed detection of single nucleotide polymorphisms. <i>Biosensors and Bioelectronics</i> , 2018, 117, 201-206.	10.1	16
45	Screen-printed microsystems for the ultrasensitive electrochemical detection of alkaline phosphatase. <i>Analyst</i> , The, 2010, 135, 1276.	3.5	15
46	Modified primers for rapid and direct electrochemical analysis of coeliac disease associated HLA alleles. <i>Biosensors and Bioelectronics</i> , 2015, 73, 64-70.	10.1	14
47	Microfluorimeter with disposable polymer chip for detection of coeliac disease toxic gliadin. <i>Lab on A Chip</i> , 2009, 9, 3535.	6.0	13
48	Gold nanoparticle fluorescent molecular beacon for low-resolution DQ2 gene HLA typing. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1001-1009.	3.7	13
49	Copper UPD as non-specific adsorption barrier in electrochemical displacement immunosensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2205-2210.	10.1	12
50	Antibodies to Wheat High-Molecular-Weight Glutenin Subunits in Patients with Celiac Disease. <i>International Archives of Allergy and Immunology</i> , 2012, 159, 428-434.	2.1	11
51	Numerical simulation of wall mass transfer rates in capillary-driven flow in microchannels. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1066-1072.	5.6	11
52	Low "medium resolution HLA-DQ2/DQ8 typing for coeliac disease predisposition analysis by colorimetric assay. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 807-819.	3.7	10
53	Highly sensitive gold-overoxidized polypyrrole nanocomposite immunosensor for antitransglutaminase antibody. <i>Journal of Bioactive and Compatible Polymers</i> , 2013, 28, 167-177.	2.1	10
54	Electrochemically actuated passive stop "go microvalves for flow control in microfluidic systems. <i>Microelectronic Engineering</i> , 2013, 111, 416-420.	2.4	10

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55	Medium-high resolution electrochemical genotyping of HLA-DQ2/DQ8 for detection of predisposition to coeliac disease. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2757-2769.	3.7	10
56	Disulfide-modified antigen for detection of celiac disease-associated anti-tissue transglutaminase autoantibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3799-3806.	3.7	10
57	Isothermal amplification using modified primers for rapid electrochemical analysis of coeliac disease associated DQB1*02 HLA allele. <i>Analytical Biochemistry</i> , 2018, 556, 16-22.	2.4	10
58	Characterisation and determination of stability and functionality of biofunctionalised colloidal gold nanoparticles. <i>Analytica Chimica Acta</i> , 2006, 556, 306-312.	5.4	9
59	Controlled electrophoretic deposition of multifunctional nanomaterials for bioelectrochemical applications. <i>Biosensors and Bioelectronics</i> , 2008, 24, 55-59.	10.1	9
60	Economic and environmental evaluation of microalgae biodiesel production using process simulation tools. <i>Computer Aided Chemical Engineering</i> , 2012, , 547-551.	0.5	9
61	Electrochemically arrayed and addressed DNA multi-sensor platforms. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 897-902.	7.8	8
62	Screen printing as a holistic manufacturing method for multifunctional microsystems and microreactors. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 115007.	2.6	8
63	Glucose Biosensors. , 0, , 199-217.		8
64	Site-Directed Immobilization of Proteins Through Electrochemical Deprotection on Electroactive Self-Assembled Monolayers. <i>Electroanalysis</i> , 2006, 18, 1879-1884.	2.9	7
65	Direct electrochemical detection of enzyme labelled, isothermally amplified DNA. <i>Analytical Biochemistry</i> , 2020, 598, 113705.	2.4	7
66	Towards a target label-free suboptimum oligonucleotide displacement-based detection system. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2145-52.	3.7	6
67	DNA biosensor based on hybridization refractory mutation system approach for single mismatch detection. <i>Analytical Biochemistry</i> , 2015, 474, 66-68.	2.4	6
68	Combination of ferrocene decorated gold nanoparticles and engineered primers for the direct reagentless determination of isothermally amplified DNA. <i>Mikrochimica Acta</i> , 2021, 188, 117.	5.0	5
69	Enzymatic self-wiring. <i>Electrochemistry Communications</i> , 2007, 9, 1715-1718.	4.7	4
70	Bleed-through read disposable microsystems for the genetic and serological analysis of celiac disease markers with amperometric detection. <i>Electrophoresis</i> , 2015, 36, 1920-1926.	2.4	4
71	Strategy for the development of sensor platforms for multi-analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 2004, 84, 799-807.	3.3	3
72	Analysis of surface-tension-driven blood flow using spectral domain optical coherence tomography. , 2008, , .		0

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73	Development of an integrated microsystem for the multiplexed detection of breast cancer markers in serum using electrochemical immunosensors. , 2010, , .		0
74	Eletrochemically Actuated Stop-Go Valves for Capillary Force-Operated Diagnostic Microsystems. ChemPhysChem, 2013, 14, 2164-2173.	2.1	0
75	Editorial for Analytical Biochemistry special issue on RPA. Analytical Biochemistry, 2018, 556, 125-128.	2.4	0
76	Catalytic and Affinity Amperometric Biosensors for Phenols, Phosphates, and Atrazine: How Transduction Can Improve Performance. Teubner-Reihe Umwelt, 1998, , 90-107.	0.1	0