

Marco Mascini

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94
papers

6,563
citations

44
h-index

81
g-index

104
ext. papers

6,937
ext. citations

6.7
avg, IF

5.69
L-index

#	Paper	IF	Citations
94	Aptamer-based detection of plasma proteins by an electrochemical assay coupled to magnetic beads. <i>Analytical Chemistry</i> , 2007 , 79, 1466-73	7.8	377
93	Surface plasmon resonance imaging for affinity-based biosensors. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 957-66	11.8	353
92	Carbon and gold electrodes as electrochemical transducers for DNA hybridisation sensors. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 515-30	11.8	341
91	Point-of-care biosensor systems for cancer diagnostics/prognostics. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1932-42	11.8	272
90	Nucleic acid and peptide aptamers: fundamentals and bioanalytical aspects. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1316-32	16.4	265
89	Aptamers-based assays for diagnostics, environmental and food analysis. <i>New Biotechnology</i> , 2007 , 24, 191-200		232
88	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. <i>Analytica Chimica Acta</i> , 2008 , 609, 139-59	6.6	217
87	Electrochemical sensor and biosensor for polyphenols detection in olive oils. <i>Food Chemistry</i> , 2000 , 71, 553-562	8.5	200
86	Disposable DNA electrochemical biosensors for environmental monitoring. <i>Analytica Chimica Acta</i> , 1999 , 387, 297-307	6.6	181
85	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 129-40	11.8	180
84	Analytical performances of aptamer-based sensing for thrombin detection. <i>Analytical Chemistry</i> , 2007 , 79, 3016-9	7.8	178
83	Electroanalytical biosensors and their potential for food pathogen and toxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 455-71	4.4	177
82	Nucleic acid biosensors for environmental pollution monitoring. <i>Analyst, The</i> , 2008 , 133, 846-54	5	170
81	Determination of anticholinesterase pesticides in real samples using a disposable biosensor. <i>Analytica Chimica Acta</i> , 1997 , 337, 315-321	6.6	168
80	Electrochemical nucleic acid-based biosensors: Concepts, terms, and methodology (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2010 , 82, 1161-1187	2.1	163
79	Sensitive detection of pesticides using amperometric sensors based on cobalt phthalocyanine-modified composite electrodes and immobilized cholinesterases. <i>Biosensors and Bioelectronics</i> , 1992 , 7, 335-43	11.8	145
78	Oligonucleotide-modified screen-printed gold electrodes for enzyme-amplified sensing of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 167-75	11.8	141

77	Electrochemical DNA biosensor for environmental monitoring. <i>Analytica Chimica Acta</i> , 2001 , 427, 155-164	6.6	139
76	Detection of Human Apolipoprotein E Genotypes by DNA Electrochemical Biosensor Coupled with PCR. <i>Clinical Chemistry</i> , 2000 , 46, 31-37	5.5	134
75	Electrochemical DNA biosensor for the detection of TT and Hepatitis B virus from PCR amplified real samples by using methylene blue. <i>Talanta</i> , 2002 , 56, 837-46	6.2	122
74	Immunomagnetic separation with mediated flow injection analysis amperometric detection of viable Escherichia coli O157. <i>Analytical Chemistry</i> , 1998 , 70, 2380-6	7.8	108
73	A review on the electrochemical biosensors for determination of microRNAs. <i>Talanta</i> , 2013 , 115, 74-83	6.2	100
72	Surface plasmon resonance biosensor for genetically modified organisms detection. <i>Analytica Chimica Acta</i> , 2002 , 453, 165-172	6.6	96
71	Deoxyribonucleic acid (DNA) biosensors for environmental risk assessment and drug studies. <i>Analytica Chimica Acta</i> , 2006 , 573-574, 81-9	6.6	95
70	Enzyme-based impedimetric detection of PCR products using oligonucleotide-modified screen-printed gold electrodes. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2001-9	11.8	91
69	Electrochemical nanomaterial-based nucleic acid aptasensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 3103-14	4.4	89
68	Disposable ruthenized screen-printed biosensors for pesticides monitoring. <i>Sensors and Actuators B: Chemical</i> , 1995 , 24, 85-89	8.5	89
67	Detection of C Reactive Protein (CRP) in Serum by an Electrochemical Aptamer-Based Sandwich Assay. <i>Electroanalysis</i> , 2009 , 21, 1309-1315	3	88
66	Investigations of the antioxidant properties of plant extracts using a DNA-electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1374-82	11.8	88
65	Detection of fragmented genomic DNA by PCR-free piezoelectric sensing using a denaturation approach. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7966-7	16.4	84
64	A DNA piezoelectric biosensor assay coupled with a polymerase chain reaction for bacterial toxicity determination in environmental samples. <i>Analytica Chimica Acta</i> , 2000 , 418, 1-9	6.6	84
63	Coupling of an indicator-free electrochemical DNA biosensor with polymerase chain reaction for the detection of DNA sequences related to the apolipoprotein E. <i>Analytica Chimica Acta</i> , 2002 , 469, 93-99	6.6	70
62	Carbon Nanotubes-Modified Screen-Printed Electrodes for Chemical Sensors and Biosensors. <i>Analytical Letters</i> , 2004 , 37, 3185-3204	2.2	65
61	Piezoelectric biosensors: strategies for coupling nucleic acids to piezoelectric devices. <i>Methods</i> , 2005 , 37, 48-56	4.6	63
60	A new approach for the detection of DNA sequences in amplified nucleic acids by a surface plasmon resonance biosensor. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 598-605	11.8	61

59	A novel low-cost and easy to develop functionalization platform. Case study: aptamer-based detection of thrombin by surface plasmon resonance. <i>Talanta</i> , 2010 , 80, 2157-64	6.2	56
58	Coupling of a DNA piezoelectric biosensor and polymerase chain reaction to detect apolipoprotein E polymorphisms. <i>Biosensors and Bioelectronics</i> , 2000 , 15, 363-70	11.8	54
57	Evaluation of pesticide-induced acetylcholinesterase inhibition by means of disposable carbon-modified electrochemical biosensors. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 485-489	3.8	53
56	Detection of β -thalassemia by a DNA piezoelectric biosensor coupled with polymerase chain reaction. <i>Analytica Chimica Acta</i> , 2003 , 481, 55-64	6.6	52
55	Rapid detection of Escherichia coli in water by a culture-based amperometric method. <i>Analytica Chimica Acta</i> , 2001 , 427, 149-154	6.6	52
54	Steric factors controlling the surface hybridization of PCR amplified sequences. <i>Analytical Chemistry</i> , 2005 , 77, 6324-30	7.8	51
53	Detection of clinically relevant point mutations by a novel piezoelectric biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1876-9	11.8	49
52	Enzyme-amplified electrochemical hybridization assay based on PNA, LNA and DNA probe-modified micro-magnetic beads. <i>Bioelectrochemistry</i> , 2009 , 76, 214-20	5.6	46
51	Disposable genosensor, a new tool for the detection of NOS-terminator, a genetic element present in GMOs. <i>Food Control</i> , 2004 , 15, 621-626	6.2	45
50	Electrochemical imaging of localized sandwich DNA hybridization using scanning electrochemical microscopy. <i>Analytical Chemistry</i> , 2007 , 79, 7206-13	7.8	43
49	Development of combined DNA-based piezoelectric biosensors for the simultaneous detection and genotyping of high risk Human Papilloma Virus strains. <i>Clinica Chimica Acta</i> , 2007 , 383, 140-6	6.2	42
48	Dendritic-like streptavidin/alkaline phosphatase nanoarchitectures for amplified electrochemical sensing of DNA sequences. <i>Langmuir</i> , 2006 , 22, 4305-9	4	39
47	Selection of thrombin-binding aptamers by using computational approach for aptasensor application. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4411-6	11.8	38
46	Planar electrochemical sensors for biomedical applications. <i>Medical Engineering and Physics</i> , 2006 , 28, 934-43	2.4	37
45	Surface plasmon resonance imaging (SPRi)-based sensing: a new approach in signal sampling and management. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1380-5	11.8	36
44	Ruthenized screen-printed choline oxidase-based biosensors for measurement of anticholinesterase activity. <i>Mikrochimica Acta</i> , 1995 , 121, 155-166	5.8	36
43	Transgenes monitoring in an industrial soybean processing chain by DNA-based conventional approaches and biosensors. <i>Food Chemistry</i> , 2009 , 113, 658-664	8.5	33
42	A Genosensor for Point Mutation Detection of P53 Gene PCR Product Using Magnetic Particles. <i>Electroanalysis</i> , 2015 , 27, 1378-1386	3	28

41	Strategies for electrochemical detection in immunochemistry. <i>Bioanalysis</i> , 2009 , 1, 1271-91	2.1	28
40	A Piezoelectric Biosensor For DNA Hybridisation Detection. <i>Analytical Letters</i> , 1998 , 31, 1795-1808	2.2	28
39	Biosensors for field analytical monitoring. <i>Field Analytical Chemistry and Technology</i> , 1998 , 2, 317-331		26
38	Label-free detection of DNA hybridization at a liquid liquid interface. <i>Analytical Chemistry</i> , 2008 , 80, 1336-40		26
37	Electrochemical biosensor technology: application to pesticide detection. <i>Methods in Molecular Biology</i> , 2009 , 504, 115-26	1.4	22
36	Affinity-based biosensors as promising tools for gene doping detection. <i>Trends in Biotechnology</i> , 2008 , 26, 236-43	15.1	22
35	Detection of highly repeated sequences in non-amplified genomic DNA by bulk acoustic wave (BAW) affinity biosensor. <i>Analytica Chimica Acta</i> , 2004 , 526, 19-25	6.6	21
34	Electrochemical bioassay for the investigation of chlorpyrifos-methyl in vine samples. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 7206-10	5.7	20
33	Simultaneous detection of transgenic DNA by surface plasmon resonance imaging with potential application to gene doping detection. <i>Analytical Chemistry</i> , 2011 , 83, 6245-53	7.8	16
32	DNA biosensors for the detection of aflatoxin producing <i>Aspergillus flavus</i> and <i>A. parasiticus</i> . <i>Monatshefte für Chemie</i> , 2009 , 140, 901-907	1.4	15
31	Cannabinoid receptor gene detection by electrochemical genosensor. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 656, 55-60	4.1	15
30	Comparison between Three Amperometric Sensors for Phenol Determination in Olive Oil Samples. <i>Analytical Letters</i> , 1999 , 32, 1981-1990	2.2	15
29	A Biosensor Approach for DNA Sequences Detection in Non-amplified Genomic DNA. <i>Analytical Letters</i> , 2007 , 40, 1360-1370	2.2	13
28	Affinity sensing for transgenes detection in antidoping control. <i>Analytical Chemistry</i> , 2009 , 81, 9571-7	7.8	12
27	DNA-metallo drugs interactions signaled by electrochemical biosensors: an overview. <i>Bioinorganic Chemistry and Applications</i> , 2007 , 2007, 91078	4.2	10
26	Electrochemical Adsorption Technique for Immobilization of Single-Stranded Oligonucleotides onto Carbon Screen-Printed Electrodes		9
25	Nucleinsäure- und Peptidaptamere: Grundlagen und bioanalytische Aspekte. <i>Angewandte Chemie</i> , 2012 , 124, 1342-1360	3.6	7
24	Amperometric Biosensor for Pathogenic Bacteria Detection		7

23	Electrochemical Device for the Rapid Detection of Genotoxic Compounds in Fish Bile Samples. <i>Analytical Letters</i> , 2005 , 38, 2639-2652	2.2	7
22	On the electrochemical flow measurements using carbon-based screen-printed electrodiffusion probes. <i>Journal of Applied Electrochemistry</i> , 2005 , 35, 599-607	2.6	6
21	Selex and Its Recent Optimizations31-59		4
20	Piezoelectric biosensors for aptamer-protein interaction. <i>Methods in Molecular Biology</i> , 2009 , 504, 23-361.4		4
19	Detection of Protein-Aptamer Interactions by Means of Electrochemical Indicators and Transverse Shear Mode Method101-128		3
18	Analytical Applicationsof QCM-based Nucleic Acid Biosensors 2006 , 211-235		3
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12	Biosensors for Clinical Biomarkers 2012 , 203-227		
11	Nucleic Acid Based Electrochemical Biosensors for Multiplexed Investigation of Bioagents. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2012 , 139-149	0.1	
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