Marco Mascini

List of Publications by Year in Descending Order

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	A Genosensor for Point Mutation Detection of P53 Gene PCR Product Using Magnetic Particles. *Electroanalysis*, **2015**, 27, 1378-1386	3	28
93	A review on the electrochemical biosensors for determination of microRNAs. *Talanta*, **2013**, 115, 74-83	6.2	100
92	Nucleic acid and peptide aptamers: fundamentals and bioanalytical aspects. *Angewandte Chemie - International Edition*, **2012**, 51, 1316-32	16.4	265
91	Biosensors for Clinical Biomarkers **2012**, 203-227		
90	Nucleinsäure- und Peptidaptamere: Grundlagen und bioanalytische Aspekte. *Angewandte Chemie*, **2012**, 124, 1342-1360	3.6	7
89	Electrochemical nanomaterial-based nucleic acid aptasensors. *Analytical and Bioanalytical Chemistry* , **2012**, 402, 3103-14	4.4	89
88	Nucleic Acid Based Electrochemical Biosensors for Multiplexed Investigation of Bioagents. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2012**, 139-149	0.1	
87	Simultaneous detection of transgenic DNA by surface plasmon resonance imaging with potential application to gene doping detection. *Analytical Chemistry*, **2011**, 83, 6245-53	7.8	16
86	Selection of thrombin-binding aptamers by using computational approach for aptasensor application. *Biosensors and Bioelectronics*, **2011**, 26, 4411-6	11.8	38
85	Cannabinoid receptor gene detection by electrochemical genosensor. *Journal of Electroanalytical Chemistry*, **2011**, 656, 55-60	4.1	15
84	Electrochemical nucleic acid-based biosensors: Concepts, terms, and methodology (IUPAC Technical Report). *Pure and Applied Chemistry*, **2010**, 82, 1161-1187	2.1	163
83	A novel low-cost and easy to develop functionalization platform. Case study: aptamer-based detection of thrombin by surface plasmon resonance. *Talanta*, **2010**, 80, 2157-64	6.2	56
82	Biosensors, Aptamers (Aptasensors) **2010**, 1		
81	Surface plasmon resonance imaging for affinity-based biosensors. *Biosensors and Bioelectronics*, **2010**, 25, 957-66	11.8	353
80	Surface plasmon resonance imaging (SPRi)-based sensing: a new approach in signal sampling and management. *Biosensors and Bioelectronics*, **2010**, 26, 1380-5	11.8	36
79	DNA Biosensor for Environmental Risk Assessment and Drugs Studies **2010**, 249-276		
78	Detection of C Reactive Protein (CRP) in Serum by an Electrochemical Aptamer-Based Sandwich Assay. *Electroanalysis*, **2009**, 21, 1309-1315	3	88

77	DNA biosensors for the detection of aflatoxin producing Aspergillus flavus and A. parasiticus. *Monatshefte F Chemie*, **2009**, 140, 901-907	1.4	15
76	Enzyme-amplified electrochemical hybridization assay based on PNA, LNA and DNA probe-modified micro-magnetic beads. *Bioelectrochemistry*, **2009**, 76, 214-20	5.6	46
75	Transgenes monitoring in an industrial soybean processing chain by DNA-based conventional approaches and biosensors. *Food Chemistry*, **2009**, 113, 658-664	8.5	33
74	Affinity sensing for transgenes detection in antidoping control. *Analytical Chemistry*, **2009**, 81, 9571-7	7.8	12
73	Strategies for electrochemical detection in immunochemistry. *Bioanalysis*, **2009**, 1, 1271-91	2.1	28
72	Electrochemical biosensor technology: application to pesticide detection. *Methods in Molecular Biology*, **2009**, 504, 115-26	1.4	22
71	Piezoelectric biosensors for aptamer-protein interaction. *Methods in Molecular Biology*, **2009**, 504, 23-36	1.4	4
70	Disposable Electrochemical Biosensors for Environmental Analysis **2009**, 115-140		
69	Affinity-based biosensors as promising tools for gene doping detection. *Trends in Biotechnology*, **2008**, 26, 236-43	15.1	22
68	Label-free detection of DNA hybridization at a liquid|liquid interface. *Analytical Chemistry*, **2008**, 80, 1336-40	7.8	26
67	Amperometric Biosensor for Pathogenic Bacteria Detection **2008**, 299-312		7
66	Nucleic acid biosensors for environmental pollution monitoring. *Analyst, The*, **2008**, 133, 846-54	5	170
65	Electroanalytical biosensors and their potential for food pathogen and toxin detection. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 455-71	4.4	177
64	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. *Analytica Chimica Acta*, **2008**, 609, 139-59	6.6	217
63	Electrochemical imaging of localized sandwich DNA hybridization using scanning electrochemical microscopy. *Analytical Chemistry*, **2007**, 79, 7206-13	7.8	43
62	Evaluation of pesticide-induced acetylcholinesterase inhibition by means of disposable carbon-modified electrochemical biosensors. *Enzyme and Microbial Technology*, **2007**, 40, 485-489	3.8	53
61	Aptamers-based assays for diagnostics, environmental and food analysis. *New Biotechnology*, **2007**, 24, 191-200		232
60	A Biosensor Approach for DNA Sequences Detection in Non-amplified Genomic DNA. *Analytical Letters*, **2007**, 40, 1360-1370	2.2	13

59	DNA-metallodrugs interactions signaled by electrochemical biosensors: an overview. *Bioinorganic Chemistry and Applications*, **2007**, 2007, 91078	4.2	10
58	Development of combined DNA-based piezoelectric biosensors for the simultaneous detection and genotyping of high risk Human Papilloma Virus strains. *Clinica Chimica Acta*, **2007**, 383, 140-6	6.2	42
57	Aptamer-based detection of plasma proteins by an electrochemical assay coupled to magnetic beads. *Analytical Chemistry*, **2007**, 79, 1466-73	7.8	377
56	Analytical performances of aptamer-based sensing for thrombin detection. *Analytical Chemistry*, **2007**, 79, 3016-9	7.8	178
55	Analytical Applicationsof QCM-based Nucleic Acid Biosensors **2006**, 211-235		3
54	Dendritic-like streptavidin/alkaline phosphatase nanoarchitectures for amplified electrochemical sensing of DNA sequences. *Langmuir*, **2006**, 22, 4305-9	4	39
53	Investigations of the antioxidant properties of plant extracts using a DNA-electrochemical biosensor. *Biosensors and Bioelectronics*, **2006**, 21, 1374-82	11.8	88
52	Point-of-care biosensor systems for cancer diagnostics/prognostics. *Biosensors and Bioelectronics*, **2006**, 21, 1932-42	11.8	272
51	Deoxyribonucleic acid (DNA) biosensors for environmental risk assessment and drug studies. *Analytica Chimica Acta*, **2006**, 573-574, 81-9	6.6	95
50	Detection of clinically relevant point mutations by a novel piezoelectric biosensor. *Biosensors and Bioelectronics*, **2006**, 21, 1876-9	11.8	49
49	Planar electrochemical sensors for biomedical applications. *Medical Engineering and Physics*, **2006**, 28, 934-43	2.4	37
48	Analytical Applicationsof QCM-based Nucleic Acid Biosensors **2006**, 211		1
47	Detection of fragmented genomic DNA by PCR-free piezoelectric sensing using a denaturation approach. *Journal of the American Chemical Society*, **2005**, 127, 7966-7	16.4	84
46	Piezoelectric biosensors: strategies for coupling nucleic acids to piezoelectric devices. *Methods*, **2005**, 37, 48-56	4.6	63
45	Steric factors controlling the surface hybridization of PCR amplified sequences. *Analytical Chemistry*, **2005**, 77, 6324-30	7.8	51
44	Enzyme-based impedimetric detection of PCR products using oligonucleotide-modified screen-printed gold electrodes. *Biosensors and Bioelectronics*, **2005**, 20, 2001-9	11.8	91
43	On the electrochemical flow measurements using carbon-based screen-printed electrodiffusion probes. *Journal of Applied Electrochemistry*, **2005**, 35, 599-607	2.6	6
42	Electrochemical Device for the Rapid Detection of Genotoxic Compounds in Fish Bile Samples. *Analytical Letters*, **2005**, 38, 2639-2652	2.2	7

41	Carbon and gold electrodes as electrochemical transducers for DNA hybridisation sensors. *Biosensors and Bioelectronics*, **2004**, 19, 515-30	11.8	341
40	Detection of highly repeated sequences in non-amplified genomic DNA by bulk acoustic wave (BAW) affinity biosensor. *Analytica Chimica Acta*, **2004**, 526, 19-25	6.6	21
39	Oligonucleotide-modified screen-printed gold electrodes for enzyme-amplified sensing of nucleic acids. *Biosensors and Bioelectronics*, **2004**, 20, 167-75	11.8	141
38	A new approach for the detection of DNA sequences in amplified nucleic acids by a surface plasmon resonance biosensor. *Biosensors and Bioelectronics*, **2004**, 20, 598-605	11.8	61
37	Disposable genosensor, a new tool for the detection of NOS-terminator, a genetic element present in GMOs. *Food Control*, **2004**, 15, 621-626	6.2	45
36	Carbon Nanotubes-Modified Screen-Printed Electrodes for Chemical Sensors and Biosensors. *Analytical Letters*, **2004**, 37, 3185-3204	2.2	65
35	Detection of β-thalassemia by a DNA piezoelectric biosensor coupled with polymerase chain reaction. *Analytica Chimica Acta*, **2003**, 481, 55-64	6.6	52
34	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. *Biosensors and Bioelectronics*, **2003**, 18, 129-40	11.8	180
33	Surface plasmon resonance biosensor for genetically modified organisms detection. *Analytica Chimica Acta*, **2002**, 453, 165-172	6.6	96
32	Coupling of an indicator-free electrochemical DNA biosensor with polymerase chain reaction for the detection of DNA sequences related to the apolipoprotein E. *Analytica Chimica Acta*, **2002**, 469, 93-99	6.6	70
31	Electrochemical bioassay for the investigation of chlorpyrifos-methyl in vine samples. *Journal of Agricultural and Food Chemistry*, **2002**, 50, 7206-10	5.7	20
30	Electrochemical DNA biosensor for the detection of TT and Hepatitis B virus from PCR amplified real samples by using methylene blue. *Talanta*, **2002**, 56, 837-46	6.2	122
29	Electrochemical DNA biosensor for environmental monitoring. *Analytica Chimica Acta*, **2001**, 427, 155-164	6.6	139
28	Rapid detection of Escherichia coli in water by a culture-based amperometric method. *Analytica Chimica Acta*, **2001**, 427, 149-154	6.6	52
27	Coupling of a DNA piezoelectric biosensor and polymerase chain reaction to detect apolipoprotein E polymorphisms. *Biosensors and Bioelectronics*, **2000**, 15, 363-70	11.8	54
26	Electrochemical sensor and biosensor for polyphenols detection in olive oils. *Food Chemistry*, **2000**, 71, 553-562	8.5	200
25	A DNA piezoelectric biosensor assay coupled with a polymerase chain reaction for bacterial toxicity determination in environmental samples. *Analytica Chimica Acta*, **2000**, 418, 1-9	6.6	84
24	Detection of Human Apolipoprotein E Genotypes by DNA Electrochemical Biosensor Coupled with PCR. *Clinical Chemistry*, **2000**, 46, 31-37	5.5	134

23	Disposable DNA electrochemical biosensors for environmental monitoring. *Analytica Chimica Acta*, **1999**, 387, 297-307	6.6	181
22	Comparison between Three Amperometric Sensors for Phenol Determination in Olive Oil Samples. *Analytical Letters*, **1999**, 32, 1981-1990	2.2	15
21	Biosensors for field analytical monitoring. *Field Analytical Chemistry and Technology*, **1998**, 2, 317-331		26
20	Immunomagnetic separation with mediated flow injection analysis amperometric detection of viable Escherichia coli O157. *Analytical Chemistry*, **1998**, 70, 2380-6	7.8	108
19	A Piezoelectric Biosensor For DNA Hybridisation Detection. *Analytical Letters*, **1998**, 31, 1795-1808	2.2	28
18	Determination of anticholinesterase pesticides in real samples using a disposable biosensor. *Analytica Chimica Acta*, **1997**, 337, 315-321	6.6	168
17	Ruthenized screen-printed choline oxidase-based biosensors for measurement of anticholinesterase activity. *Mikrochimica Acta*, **1995**, 121, 155-166	5.8	36
16	Disposable ruthenized screen-printed biosensors for pesticides monitoring. *Sensors and Actuators B: Chemical*, **1995**, 24, 85-89	8.5	89
15	Sensitive detection of pesticides using amperometric sensors based on cobalt phthalocyanine-modified composite electrodes and immobilized cholinesterases. *Biosensors and Bioelectronics*, **1992**, 7, 335-43	11.8	145
14	Selex and Its Recent Optimizations31-59		4
13	Detection of Protein–Aptamer Interactions by Means of Electrochemical Indicators and Transverse Shear Mode Method101-128		3
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