

# Marco Mascini

## List of Publications by Year in descending order

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87  
papers

7,465  
citations

50170

46  
h-index

82410

72  
g-index

104  
all docs

104  
docs citations

104  
times ranked

6879  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface plasmon resonance imaging for affinity-based biosensors. <i>Biosensors and Bioelectronics</i> , 2010, 25, 957-966.	5.3	408
2	Aptamer-Based Detection of Plasma Proteins by an Electrochemical Assay Coupled to Magnetic Beads. <i>Analytical Chemistry</i> , 2007, 79, 1466-1473.	3.2	396
3	Carbon and gold electrodes as electrochemical transducers for DNA hybridisation sensors. <i>Biosensors and Bioelectronics</i> , 2004, 19, 515-530.	5.3	368
4	Nucleic Acid and Peptide Aptamers: Fundamentals and Bioanalytical Aspects. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1316-1332.	7.2	315
5	Point-of-care biosensor systems for cancer diagnostics/prognostics. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1932-1942.	5.3	307
6	Aptamers-based assays for diagnostics, environmental and food analysis. <i>New Biotechnology</i> , 2007, 24, 191-200.	2.7	258
7	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. <i>Analytica Chimica Acta</i> , 2008, 609, 139-159.	2.6	240
8	Electrochemical sensor and biosensor for polyphenols detection in olive oils. <i>Food Chemistry</i> , 2000, 71, 553-562.	4.2	232
9	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. <i>Biosensors and Bioelectronics</i> , 2003, 18, 129-140.	5.3	210
10	Nucleic acid biosensors for environmental pollution monitoring. <i>Analyst, The</i> , 2008, 133, 846.	1.7	203
11	Disposable DNA electrochemical biosensors for environmental monitoring. <i>Analytica Chimica Acta</i> , 1999, 387, 297-307.	2.6	202
12	Electroanalytical biosensors and their potential for food pathogen and toxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 455-471.	1.9	201
13	Electrochemical nucleic acid-based biosensors: Concepts, terms, and methodology (IUPAC Technical) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i> 0,9 200		
14	Determination of anticholinesterase pesticides in real samples using a disposable biosensor. <i>Analytica Chimica Acta</i> , 1997, 337, 315-321.	2.6	190
15	Analytical Performances of Aptamer-Based Sensing for Thrombin Detection. <i>Analytical Chemistry</i> , 2007, 79, 3016-3019.	3.2	190
16	Sensitive detection of pesticides using amperometric sensors based on cobalt phthalocyanine-modified composite electrodes and immobilized cholinesterases. <i>Biosensors and Bioelectronics</i> , 1992, 7, 335-343.	5.3	165
17	Oligonucleotide-modified screen-printed gold electrodes for enzyme-amplified sensing of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2004, 20, 167-175.	5.3	165
18	Detection of Human Apolipoprotein E Genotypes by DNA Electrochemical Biosensor Coupled with PCR. <i>Clinical Chemistry</i> , 2000, 46, 31-37.	1.5	155

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19	Electrochemical DNA biosensor for environmental monitoring. <i>Analytica Chimica Acta</i> , 2001, 427, 155-164.	2.6	150
20	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, 837-846.	2.9	142
21	Immunomagnetic Separation with Mediated Flow Injection Analysis Amperometric Detection of Viable <i>Escherichia coli</i> O157. <i>Analytical Chemistry</i> , 1998, 70, 2380-2386.	3.2	127
22	Deoxyribonucleic acid (DNA) biosensors for environmental risk assessment and drug studies. <i>Analytica Chimica Acta</i> , 2006, 573-574, 81-89.	2.6	114
23	A review on the electrochemical biosensors for determination of microRNAs. <i>Talanta</i> , 2013, 115, 74-83.	2.9	113
24	Surface plasmon resonance biosensor for genetically modified organisms detection. <i>Analytica Chimica Acta</i> , 2002, 453, 165-172.	2.6	103
25	Enzyme-based impedimetric detection of PCR products using oligonucleotide-modified screen-printed gold electrodes. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2001-2009.	5.3	100
26	Disposable ruthenized screen-printed biosensors for pesticides monitoring. <i>Sensors and Actuators B: Chemical</i> , 1995, 24, 85-89.	4.0	99
27	Electrochemical nanomaterial-based nucleic acid aptasensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3103-3114.	1.9	99
28	Investigations of the antioxidant properties of plant extracts using a DNA-electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1374-1382.	5.3	98
29	Detection of C Reactive Protein (CRP) in Serum by an Electrochemical Aptamer-Based Sandwich Assay. <i>Electroanalysis</i> , 2009, 21, 1309-1315.	1.5	98
30	Detection of Fragmented Genomic DNA by PCR-Free Piezoelectric Sensing Using a Denaturation Approach. <i>Journal of the American Chemical Society</i> , 2005, 127, 7966-7967.	6.6	95
31	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.	2.6	94
32	Piezoelectric biosensors: Strategies for coupling nucleic acids to piezoelectric devices. <i>Methods</i> , 2005, 37, 48-56.	1.9	76
33	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.	2.6	74
34	Carbon Nanotubes-Modified Screen-Printed Electrodes for Chemical Sensors and Biosensors. <i>Analytical Letters</i> , 2004, 37, 3185-3204.	1.0	74
35	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.	5.3	69
36	Coupling of a DNA piezoelectric biosensor and polymerase chain reaction to detect apolipoprotein E polymorphisms. <i>Biosensors and Bioelectronics</i> , 2000, 15, 363-370.	5.3	66

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37	Evaluation of pesticide-induced acetylcholinesterase inhibition by means of disposable carbon-modified electrochemical biosensors. <i>Enzyme and Microbial Technology</i> , 2007, 40, 485-489.	1.6	66
38	Detection of clinically relevant point mutations by a novel piezoelectric biosensor. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1876-1879.	5.3	65
39	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, 2157-2164.	2.9	63
40	Rapid detection of <i>Escherichia coli</i> in water by a culture-based amperometric method. <i>Analytica Chimica Acta</i> , 2001, 427, 149-154.	2.6	56
41	Detection of $\hat{\imath}^2$ -thalassemia by a DNA piezoelectric biosensor coupled with polymerase chain reaction. <i>Analytica Chimica Acta</i> , 2003, 481, 55-64.	2.6	56
42	Steric Factors Controlling the Surface Hybridization of PCR Amplified Sequences. <i>Analytical Chemistry</i> , 2005, 77, 6324-6330.	3.2	53
43	Planar electrochemical sensors for biomedical applications. <i>Medical Engineering and Physics</i> , 2006, 28, 934-943.	0.8	52
44	Enzyme-amplified electrochemical hybridization assay based on PNA, LNA and DNA probe-modified micro-magnetic beads. <i>Bioelectrochemistry</i> , 2009, 76, 214-220.	2.4	52
45	Electrochemical Imaging of Localized Sandwich DNA Hybridization Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2007, 79, 7206-7213.	3.2	50
46	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, 140-146.	0.5	49
47	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.	2.8	47
48	Surface plasmon resonance imaging (SPRI)-based sensing: A new approach in signal sampling and management. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1380-1385.	5.3	46
49	Dendritic-like Streptavidin/Alkaline Phosphatase Nanoarchitectures for Amplified Electrochemical Sensing of DNA Sequences. <i>Langmuir</i> , 2006, 22, 4305-4309.	1.6	43
50	Selection of thrombin-binding aptamers by using computational approach for aptasensor application. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4411-4416.	5.3	43
51	Ruthenized screen-printed choline oxidase-based biosensors for measurement of anticholinesterase activity. <i>Mikrochimica Acta</i> , 1995, 121, 155-166.	2.5	41
52	Transgenes monitoring in an industrial soybean processing chain by DNA-based conventional approaches and biosensors. <i>Food Chemistry</i> , 2009, 113, 658-664.	4.2	40
53	A Genosensor for Point Mutation Detection of P53 Gene PCR Product Using Magnetic Particles. <i>Electroanalysis</i> , 2015, 27, 1378-1386.	1.5	35
54	Biosensors for field analytical monitoring. <i>Field Analytical Chemistry and Technology</i> , 1998, 2, 317-331.	0.9	34

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55	A Piezoelectric Biosensor For DNA Hybridisation Detection. <i>Analytical Letters</i> , 1998, 31, 1795-1808.	1.0	31
56	Strategies for electrochemical detection in immunochemistry. <i>Bioanalysis</i> , 2009, 1, 1271-1291.	0.6	31
57	Affinity-based biosensors as promising tools for gene doping detection. <i>Trends in Biotechnology</i> , 2008, 26, 236-243.	4.9	28
58	Label-Free Detection of DNA Hybridization at a Liquid   Liquid Interface. <i>Analytical Chemistry</i> , 2008, 80, 1336-1340.	3.2	28
59	Electrochemical Biosensor Technology: Application to Pesticide Detection. <i>Methods in Molecular Biology</i> , 2009, 504, 115-126.	0.4	27
60	Electrochemical Bioassay for the Investigation of Chlorpyrifos-methyl in Vine Samples. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 7206-7210.	2.4	24
61	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.	2.6	23
62	Comparison between Three Amperometric Sensors for Phenol Determination in Olive Oil Samples. <i>Analytical Letters</i> , 1999, 32, 1981-1990.	1.0	19
63	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.	0.9	19
64	Simultaneous Detection of Transgenic DNA by Surface Plasmon Resonance Imaging with Potential Application to Gene Doping Detection. <i>Analytical Chemistry</i> , 2011, 83, 6245-6253.	3.2	19
65	Affinity Sensing for Transgenes Detection in Antidoping Control. <i>Analytical Chemistry</i> , 2009, 81, 9571-9577.	3.2	17
66	Cannabinoid receptor gene detection by electrochemical genosensor. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 55-60.	1.9	15
67	A Biosensor Approach for DNA Sequences Detection in Non-amplified Genomic DNA. <i>Analytical Letters</i> , 2007, 40, 1360-1370.	1.0	14
68	DNA-Metallo drugs Interactions Signaled by Electrochemical Biosensors: An Overview. <i>Bioinorganic Chemistry and Applications</i> , 2007, 2007, 1-11.	1.8	12
69	Electrochemical Adsorption Technique for Immobilization of Single-Stranded Oligonucleotides onto Carbon Screen-Printed Electrodes. , 0, , 27-43.		10
70	Amperometric Biosensor for Pathogenic Bacteria Detection. , 2008, , 299-312.		9
71	On the electrochemical flow measurements using carbon-based screen-printed electrodiffusion probes. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 599-607.	1.5	7
72	Electrochemical Device for the Rapid Detection of Genotoxic Compounds in Fish Bile Samples. <i>Analytical Letters</i> , 2005, 38, 2639-2652.	1.0	7

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73	Piezoelectric Biosensors for Aptamer-Protein Interaction. Methods in Molecular Biology, 2009, 504, 23-36.	0.4	5
74	Analytical Applications of QCM-based Nucleic Acid Biosensors. , 2006, , 211-235.		3
75	ELECTROCHEMICAL DEVICE FOR THE DETECTION OF GENOTOXIC COMPOUNDS IN FISH BILE SAMPLES. , 2005, , .		3
76	Aptamer-Based Bioanalytical Assays: Amplification Strategies. , 0, , 159-179.		2
77	Aptamers: Hybrids between Nature and Technology. , 0, , 87-99.		1
78	Biosensors Using the Aptameric Enzyme Subunit: The Use of Aptamers in the Allosteric Control of Enzymes. , 0, , 129-138.		1
79	Aptamers for Separation of Enantiomers. , 0, , 213-228.		1
80	Strategy for Use of Smart Routes to Prepare Label-Free Aptasensors for Bioassay Using Different Techniques. , 0, , 251-298.		1
81	Analytical Applications of QCM-based Nucleic Acid Biosensors. , 2006, , 211-235.		1
82	Biosensors, Electrochemical. , 2014, , 136-140.		1
83	Nanomaterial-Based Label-Free Aptasensors. , 0, , 139-158.		0
84	Kinetic Capillary Electrophoresis for Selection, Characterization, and Analytical Utilization of Aptamers. , 0, , 181-212.		0
85	DETECTION OF HEAVY METALS USING DISPOSABLE MODIFIED ELECTROCHEMICAL SENSORS. , 2004, , .		0
86	Disposable Electrochemical Biosensors for Environmental Analysis. , 2009, , 115-140.		0
87	DNA Biosensor for Environmental Risk Assessment and Drugs Studies. , 2010, , 249-276.		0