

Maria Minunni

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110 papers	5,763 citations	36 h-index	75 g-index
121 ext. papers	6,199 ext. citations	6.3 avg, IF	5.65 L-index

#	Paper	IF	Citations
110	A biomimetic enzyme-linked immunosorbent assay (BELISA) for the analysis of gonadorelin by using molecularly imprinted polymer-coated microplates.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	2
109	Structurally Constrained MUC1-Tn Mimetic Antigen as Template for Molecularly Imprinted Polymers (MIPs): A Promising Tool for Cancer Diagnostics.. <i>ChemPlusChem</i> , 2022 , e202200068	2.8	
108	Melanochrome-based colorimetric assay for quantitative detection of levodopa in co-presence of carbidopa and its application to relevant anti-Parkinson drugs. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 414, 1713	4.4	2
107	Colorimetric selective quantification of anthocyanins with catechol/pyrogallol moiety in edible plants upon zinc complexation.. <i>Talanta</i> , 2021 , 240, 123156	6.2	1
106	Protein-templated copper nanoclusters for fluorimetric determination of human serum albumin. <i>Mikrochimica Acta</i> , 2021 , 188, 116	5.8	3
105	Sensitive two-steps competitive assay for gonadotropin-releasing hormone detection via SPR biosensing and polynorepinephrine-based molecularly imprinted polymer. <i>Analytica Chimica Acta</i> , 2021 , 1161, 338481	6.6	4
104	Polydopamine-based quantitation of albuminuria for the assessment of kidney damage. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 2217-2224	4.4	2
103	Polynorepinephrine: state-of-the-art and perspective applications in biosensing and molecular recognition. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 5945-5954	4.4	9
102	Colorimetric analysis of the early oxidation of dopamine by hypochlorous acid as preliminary screening tool for chemical determinants of neuronal oxidative stress. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 179, 113016	3.5	13
101	3,3',5,5'-tetramethylbenzidine as multi-colorimetric indicator of chlorine in water in line with health guideline values. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 7861-7869	4.4	2
100	Colorimetric determination of total protein content in serum based on the polydopamine/protein adsorption competition on microplates. <i>Talanta</i> , 2019 , 198, 15-22	6.2	9
99	Colorimetric determination of p-nitrophenol by using ELISA microwells modified with an adhesive polydopamine nanofilm containing catalytically active gold nanoparticles. <i>Mikrochimica Acta</i> , 2019 , 186, 146	5.8	16
98	An ultra-sensitive aptasensor on optical fibre for the direct detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2019 , 135, 102-110	11.8	33
97	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-9	3.8	1
96	Characterization of troponin T binding aptamers for an innovative enzyme-linked oligonucleotide assay (ELONA). <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7709-7716	4.4	11
95	A straightforward synthesis of phenyl boronic acid (PBA) containing BODIPY dyes: new functional and modular fluorescent tools for the tethering of the glycan domain of antibodies.. <i>RSC Advances</i> , 2019 , 9, 30773-30777	3.7	5
94	Real-Time Tau Protein Detection by Sandwich-Based Piezoelectric Biosensing: Exploring Tubulin as a Mass Enhancer. <i>Sensors</i> , 2018 , 18,	3.8	7

93	Non-SELEX isolation of DNA aptamers for the homogeneous-phase fluorescence anisotropy sensing of tau Proteins. <i>Analytica Chimica Acta</i> , 2018 , 1038, 173-181	6.6	33
92	A small heterobifunctional ligand provides stable and water dispersible core-shell CdSe/ZnS quantum dots (QDs). <i>Nanoscale</i> , 2018 , 10, 19720-19732	7.7	8
91	Electrochemical and optical study of metallothionein interactions with prion proteins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 140, 355-361	3.5	3
90	Tunable growth of gold nanostructures at a PDMS surface to obtain plasmon rulers with enhanced optical features. <i>Mikrochimica Acta</i> , 2017 , 184, 3093-3102	5.8	6
89	Biosensors and Related Bioanalytical Tools. <i>Comprehensive Analytical Chemistry</i> , 2017 , 77, 1-33	1.9	20
88	In vitro selection of RNA aptamers against CA125 tumor marker in ovarian cancer and its study by optical biosensing. <i>Methods</i> , 2016 , 97, 58-68	4.6	21
87	To the memory of Marco Mascini: His contribution in the field of biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 2-8	14.6	2
86	Detecting Alzheimer's disease biomarkers: From antibodies to new bio-mimetic receptors and their application to established and emerging bioanalytical platforms - A critical review. <i>Analytica Chimica Acta</i> , 2016 , 940, 21-37	6.6	36
85	Direct genotyping of C3435T single nucleotide polymorphism in unamplified human MDR1 gene using a surface plasmon resonance imaging DNA sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 4023-8	4.4	7
84	Investigating nanoparticle properties in plasmonic nanoarchitectures with DNA by surface plasmon resonance imaging. <i>Chemical Communications</i> , 2015 , 51, 6587-90	5.8	12
83	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3374-3384	4	13
82	A reusable optical biosensor for the ultrasensitive and selective detection of unamplified human genomic DNA with gold nanostars. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 981-8	11.8	34
81	Self-powered microneedle-based biosensors for pain-free high-accuracy measurement of glycaemia in interstitial fluid. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 162-8	11.8	80
80	Surface plasmon resonance applications in clinical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 2303-23	4.4	121
79	Bioanalytical approaches for the detection of single nucleotide polymorphisms by Surface Plasmon Resonance biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 28-37	11.8	30
78	Selective and simultaneous determination of NSAIDs in equine plasma by HPLC with molecularly imprinted solid-phase extraction. <i>Bioanalysis</i> , 2014 , 6, 2147-58	2.1	8
77	Improving surface plasmon resonance imaging of DNA by creating new gold and silver based surface nanostructures. <i>Mikrochimica Acta</i> , 2013 , 180, 1093-1099	5.8	10
76	Sensing benzo[a]pyrene-DNA adducts formation via decrease of hybridization reaction. <i>Sensors and Actuators B: Chemical</i> , 2013 , 179, 187-193	8.5	5

75	Determination of phenylbutazone and flunixin meglumine in equine plasma by electrochemical-based sensing coupled to selective extraction with molecularly imprinted polymers. <i>Sensors and Actuators B: Chemical</i> , 2013 , 179, 226-231	8.5	15
74	SPR detection of human hepcidin-25: a critical approach by immuno- and biomimetic-based biosensing. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 135-40	11.8	12
73	Direct detection of genomic DNA by surface plasmon resonance imaging: an optimized approach. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 193-9	11.8	35
72	Label-free methods for probing the interaction of clioquinol with amyloid- β <i>Analytical Methods</i> , 2012 , 4, 2228	3.2	13
71	Surface Plasmon Resonance Imaging: What Next?. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2682-916.4		71
70	Piezoelectric Sensing for Sensitive Detection of DNA. <i>Soft and Biological Matter</i> , 2012 , 203-233	0.8	1
69	Transgene traceability in transgenic mice: a bioanalytical approach for potential gene-doping analysis. <i>Bioanalysis</i> , 2011 , 3, 2523-31	2.1	4
68	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
67	Surface Plasmon Resonance imaging-based sensing for anti-bovine immunoglobulins detection in human milk and serum. <i>Analytica Chimica Acta</i> , 2011 , 707, 178-83	6.6	20
66	A rational approach in probe design for nucleic acid-based biosensing. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4785-90	11.8	22
65	Surface plasmon resonance imaging for affinity-based biosensors. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 957-66	11.8	353
64	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
63	Disposable electrochemical sensor for rapid measurement of heavy metals in fish by square wave anodic stripping voltammetry (SWASV). <i>Veterinary Research Communications</i> , 2009 , 33 Suppl 1, 249-52	2.9	5
62	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
61	Affinity sensing for transgenes detection in antidoping control. <i>Analytical Chemistry</i> , 2009 , 81, 9571-7	7.8	12
60	An optimized digestion method coupled to electrochemical sensor for the determination of Cd, Cu, Pb and Hg in fish by square wave anodic stripping voltammetry. <i>Talanta</i> , 2009 , 77, 1143-8	6.2	71
59	Piezoelectric biosensors for aptamer-protein interaction. <i>Methods in Molecular Biology</i> , 2009 , 504, 23-361.4		4
58	SPR in drug discovery: searching bioactive compounds in plant extracts. <i>Methods in Molecular Biology</i> , 2009 , 572, 203-18	1.4	5

57	Affinity-based biosensors as promising tools for gene doping detection. <i>Trends in Biotechnology</i> , 2008 , 26, 236-43	15.1	22
56	Biosensors for RNA aptamers-protein interaction. <i>Methods in Molecular Biology</i> , 2008 , 419, 109-19	1.4	5
55	(Bio)Sensor Approach in the Evaluation of Polyphenols in Vegetal Matrices. <i>Natural Product Communications</i> , 2008 , 3, 1934578X0800301	0.9	1
54	Development of an optical RNA-based aptasensor for C-reactive protein. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 1077-86	4.4	76
53	Surface plasmon resonance imaging technique for nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 82-87	8.5	24
52	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. <i>Analytica Chimica Acta</i> , 2008 , 609, 139-59	6.6	217
51	Probing DNA hybridization in thiolipid monolayers by means of impedance spectroscopy. <i>Electrochemistry Communications</i> , 2007 , 9, 2380-2386	5.1	6
50	Aptamers-based assays for diagnostics, environmental and food analysis. <i>New Biotechnology</i> , 2007 , 24, 191-200		232
49	Analytical applications of aptamers 2007 , 6585, 255		2
48	A Biosensor Approach for DNA Sequences Detection in Non-amplified Genomic DNA. <i>Analytical Letters</i> , 2007 , 40, 1360-1370	2.2	13
47	An optical immunosensor for rapid vitellogenin detection in plasma from carp (<i>Cyprinus carpio</i>). <i>Talanta</i> , 2007 , 72, 785-90	6.2	19
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, 140-6	6.2	42
45	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
44	Analytical performances of aptamer-based sensing for thrombin detection. <i>Analytical Chemistry</i> , 2007 , 79, 3016-9	7.8	178
43	Analytical Applicationsof QCM-based Nucleic Acid Biosensors 2006 , 211-235		3
42	A DNA-based piezoelectric biosensor: strategies for coupling nucleic acids to piezoelectric devices. <i>Talanta</i> , 2006 , 68, 806-12	6.2	36
41	Development of an Efficient Multiple Sclerosis Diagnostic Technology Based on an Optical Glycopeptide Immunosensor 2006 , 785-786		1
40	Detection of clinically relevant point mutations by a novel piezoelectric biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1876-9	11.8	49

39	Analytical Applications of QCM-based Nucleic Acid Biosensors 2006 , 211		1
38	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
37	Piezoelectric biosensors: strategies for coupling nucleic acids to piezoelectric devices. <i>Methods</i> , 2005 , 37, 48-56	4.6	63
36	An optical DNA-based biosensor for the analysis of bioactive constituents with application in drug and herbal drug screening. <i>Talanta</i> , 2005 , 65, 578-85	6.2	45
35	Direct immobilisation of DNA probes for the development of affinity biosensors. <i>Bioelectrochemistry</i> , 2005 , 66, 129-38	5.6	91
34	Detection of TP53 mutation using a portable surface plasmon resonance DNA-based biosensor. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1939-45	11.8	69
33	A novel optical biosensor format for the detection of clinically relevant TP53 mutations. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2310-3	11.8	27
32	Aptamer-based biosensors for the detection of HIV-1 Tat protein. <i>Bioelectrochemistry</i> , 2005 , 67, 135-41	5.6	207
31	Identification of mammalian species using genosensors. <i>Bioelectrochemistry</i> , 2005 , 67, 163-9	5.6	18
30	Analytical applications of aptamers. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2424-34	11.8	813
29	New Trends in Nucleic Acids Based Biosensors Florence, Italy, October 25-28, 2003. <i>Analytical Letters</i> , 2004 , 37, 1037-1052	2.2	5
28	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
27	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
26	Development of biosensors with aptamers as bio-recognition element: the case of HIV-1 Tat protein. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 1149-56	11.8	170
25	Immobilisation of DNA probes for the development of SPR-based sensing. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 967-74	11.8	90
24	Towards fast and inexpensive molecular diagnostic: the case of TP53. <i>Clinica Chimica Acta</i> , 2004 , 343, 45-60	6.2	14
23	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
22	New trends in affinity sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2003 , 22, 810-818	14.6	188

21	Disposable electrochemical sensor for rapid determination of heavy metals in herbal drugs. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 32, 251-6	3.5	27
20	Combination of amplification and post-amplification strategies to improve optical DNA sensing. <i>Biosensors and Bioelectronics</i> , 2003 , 19, 337-44	11.8	50
19	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 129-40	11.8	180
18	. <i>IEEE Sensors Journal</i> , 2003 , 3, 369-375	4	22
17	Surface plasmon resonance biosensor for genetically modified organisms detection. <i>Analytica Chimica Acta</i> , 2002 , 453, 165-172	6.6	96
16	A SURFACE PLASMON RESONANCE BIOSENSOR FOR THE DETERMINATION OF THE AFFINITY OF DRUGS FOR NUCLEIC ACIDS. <i>Analytical Letters</i> , 2002 , 35, 599-613	2.2	24
15	MINI REVIEW: SCREENING METHODOLOGIES FOR GENETIC MODIFIED ORGANISMS (GMOs). <i>Analytical Letters</i> , 2001 , 34, 469-469	2.2	
14	Biosensors as new analytical tool for detection of Genetically Modified Organisms (GMOs). <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 369, 589-93		50
13	A PIEZOELECTRIC AFFINITY BIOSENSOR FOR GENETICALLY MODIFIED ORGANISMS (GMOs) DETECTION. <i>Analytical Letters</i> , 2001 , 34, 825-840	2.2	27
12	Comparison among differential pulse voltammetry, amperometric biosensor, and HPLC/DAD analysis for polyphenol determination. <i>Journal of Agricultural and Food Chemistry</i> , 2000 , 48, 1197-203	5.7	78
11	Surface modifications for the development of piezoimmunosensors. <i>Biosensors and Bioelectronics</i> , 1998 , 13, 347-57	11.8	123
10	In vivo cytogenetic effects of natural humic acid. <i>Mutagenesis</i> , 1996 , 11, 467-9	2.8	18
9	A quartz crystal microbalance displacement assay for <i>Listeria monocytogenes</i> . <i>Analytica Chimica Acta</i> , 1996 , 325, 169-174	6.6	69
8	Simultaneous Determination of α -Microglobulin and Ig E Using Real-Time Biospecific Interaction Analysis (BIA). <i>Analytical Letters</i> , 1995 , 28, 933-944	2.2	5
7	The Quartz Crystal Microbalance as Biosensor. A Status Report on Its Future. <i>Analytical Letters</i> , 1995 , 28, 749-764	2.2	82
6	A Piezoelectric Quartz Crystal Biosensor as a Direct Affinity Sensor. <i>Analytical Letters</i> , 1994 , 27, 1475-1482	2.2	60
5	Characterization of monoclonal antibodies to 2,4-dichlorophenoxyacetic acid using a piezoelectric quartz crystal microbalance in solution. <i>Journal of Immunological Methods</i> , 1994 , 176, 117-25	2.5	49
4	Cytogenetic effects of benzimidazoles in mouse bone marrow. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1993 , 300, 15-28		27

3	Detection of Pesticide in Drinking Water Using Real-Time Biospecific Interaction Analysis (BIA). <i>Analytical Letters</i> , 1993 , 26, 1441-1460	2.2	128
2	Genotoxicity of methylglyoxal: cytogenetic damage in human lymphocytes in vitro and in intestinal cells of mice. <i>Carcinogenesis</i> , 1990 , 11, 1503-7	4.6	23
1	Aptamer-Based Bioanalytical Assays: Amplification Strategies	159-179	2