

# Sara Tombelli

## List of Publications by Citations

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103  
papers

5,487  
citations

37  
h-index

73  
g-index

130  
ext. papers

5,962  
ext. citations

5.6  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
103	Analytical applications of aptamers. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 2424-34	11.8	813
102	Aptamer-based detection of plasma proteins by an electrochemical assay coupled to magnetic beads. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1466-73	7.8	377
101	Nucleic acid and peptide aptamers: fundamentals and bioanalytical aspects. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1316-32	16.4	265
100	Aptamers-based assays for diagnostics, environmental and food analysis. <i>New Biotechnology</i> , <b>2007</b> , 24, 191-200		232
99	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. <i>Analytica Chimica Acta</i> , <b>2008</b> , 609, 139-59	6.6	217
98	Aptamer-based biosensors for the detection of HIV-1 Tat protein. <i>Bioelectrochemistry</i> , <b>2005</b> , 67, 135-41	5.6	207
97	New trends in affinity sensing. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2003</b> , 22, 810-818	14.6	188
96	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 18, 129-40	11.8	180
95	Analytical performances of aptamer-based sensing for thrombin detection. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 3016-9	7.8	178
94	Development of biosensors with aptamers as bio-recognition element: the case of HIV-1 Tat protein. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 1149-56	11.8	170
93	Biosensing with optical fiber gratings. <i>Nanophotonics</i> , <b>2017</b> , 6, 663-679	6.3	142
92	Biosensors for biomarkers in medical diagnostics. <i>Biomarkers</i> , <b>2008</b> , 13, 637-57	2.6	128
91	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. <i>ACS Sensors</i> , <b>2018</b> , 3, 936-943	9.2	122
90	Polyphenol content and antioxidative activity in some species of freshly consumed salads. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 1724-9	5.7	120
89	Direct immobilisation of DNA probes for the development of affinity biosensors. <i>Bioelectrochemistry</i> , <b>2005</b> , 66, 129-38	5.6	91
88	Immobilisation of DNA probes for the development of SPR-based sensing. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 967-74	11.8	90
87	Detection of C Reactive Protein (CRP) in Serum by an Electrochemical Aptamer-Based Sandwich Assay. <i>Electroanalysis</i> , <b>2009</b> , 21, 1309-1315	3	88

86	Different approaches for the detection of thrombin by an electrochemical aptamer-based assay coupled to magnetic beads. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 1602-9	11.8	88
85	Detection of fragmented genomic DNA by PCR-free piezoelectric sensing using a denaturation approach. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 7966-7	16.4	84
84	A DNA piezoelectric biosensor assay coupled with a polymerase chain reaction for bacterial toxicity determination in environmental samples. <i>Analytica Chimica Acta</i> , <b>2000</b> , 418, 1-9	6.6	84
83	Towards sensitive label-free immunosensing by means of turn-around point long period fiber gratings. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 60, 305-10	11.8	79
82	Sol-Gel-Based Titania-Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 12024-31	7.8	79
81	Improved procedures for immobilisation of oligonucleotides on gold-coated piezoelectric quartz crystals. <i>Biosensors and Bioelectronics</i> , <b>2002</b> , 17, 929-36	11.8	77
80	Development of an optical RNA-based aptasensor for C-reactive protein. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 1077-86	4.4	76
79	An Electrochemical Immunoassay for HER2 Detection. <i>Electroanalysis</i> , <b>2012</b> , 24, 735-742	3	64
78	Piezoelectric biosensors: strategies for coupling nucleic acids to piezoelectric devices. <i>Methods</i> , <b>2005</b> , 37, 48-56	4.6	63
77	A new approach for the detection of DNA sequences in amplified nucleic acids by a surface plasmon resonance biosensor. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 598-605	11.8	61
76	A novel low-cost and easy to develop functionalization platform. Case study: aptamer-based detection of thrombin by surface plasmon resonance. <i>Talanta</i> , <b>2010</b> , 80, 2157-64	6.2	56
75	Electrochemical biosensors for biogenic amines: a comparison between different approaches. <i>Analytica Chimica Acta</i> , <b>1998</b> , 358, 277-284	6.6	55
74	SPR-based plastic optical fibre biosensor for the detection of C-reactive protein in serum. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 1077-1084	3.1	55
73	Coupling of a DNA piezoelectric biosensor and polymerase chain reaction to detect apolipoprotein E polymorphisms. <i>Biosensors and Bioelectronics</i> , <b>2000</b> , 15, 363-70	11.8	54
72	Detection of $\beta$ -thalassemia by a DNA piezoelectric biosensor coupled with polymerase chain reaction. <i>Analytica Chimica Acta</i> , <b>2003</b> , 481, 55-64	6.6	52
71	Combination of amplification and post-amplification strategies to improve optical DNA sensing. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 19, 337-44	11.8	50
70	Biosensors as new analytical tool for detection of Genetically Modified Organisms (GMOs). <i>Fresenius Journal of Analytical Chemistry</i> , <b>2001</b> , 369, 589-93		50
69	Detection of clinically relevant point mutations by a novel piezoelectric biosensor. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 21, 1876-9	11.8	49

68	An optical DNA-based biosensor for the analysis of bioactive constituents with application in drug and herbal drug screening. <i>Talanta</i> , <b>2005</b> , 65, 578-85	6.2	45
67	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> , <b>2007</b> , 383, 140-6	6.2	42
66	A DNA-based piezoelectric biosensor: strategies for coupling nucleic acids to piezoelectric devices. <i>Talanta</i> , <b>2006</b> , 68, 806-12	6.2	36
65	Magnetically driven drug delivery systems improving targeted immunotherapy for colon-rectal cancer. <i>Journal of Controlled Release</i> , <b>2018</b> , 280, 76-86	11.7	33
64	Transgenes monitoring in an industrial soybean processing chain by DNA-based conventional approaches and biosensors. <i>Food Chemistry</i> , <b>2009</b> , 113, 658-664	8.5	33
63	Long-period fiber grating: a specific design for biosensing applications. <i>Applied Optics</i> , <b>2017</b> , 56, 9846-9853	8.5	32
62	Design, fabrication and characterisation of silica-titania thin film coated over coupled long period fibre gratings: Towards bio-sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 253, 418-427	8.5	31
61	A PIEZOELECTRIC AFFINITY BIOSENSOR FOR GENETICALLY MODIFIED ORGANISMS (GMOs) DETECTION. <i>Analytical Letters</i> , <b>2001</b> , 34, 825-840	2.2	27
60	A SURFACE PLASMON RESONANCE BIOSENSOR FOR THE DETERMINATION OF THE AFFINITY OF DRUGS FOR NUCLEIC ACIDS. <i>Analytical Letters</i> , <b>2002</b> , 35, 599-613	2.2	24
59	Molecular beacon-decorated polymethylmethacrylate core-shell fluorescent nanoparticles for the detection of survivin mRNA in human cancer cells. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 88, 15-24	11.8	23
58	Oligonucleotide optical switches for intracellular sensing. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 6181-96	4.4	23
57	Detection of human apolipoprotein E genotypes by DNA biosensors coupled with PCR. <i>Clinica Chimica Acta</i> , <b>2001</b> , 307, 241-8	6.2	23
56	. <i>IEEE Sensors Journal</i> , <b>2003</b> , 3, 369-375	4	22
55	Detection of highly repeated sequences in non-amplified genomic DNA by bulk acoustic wave (BAW) affinity biosensor. <i>Analytica Chimica Acta</i> , <b>2004</b> , 526, 19-25	6.6	21
54	Theranostic properties of a survivin-directed molecular beacon in human melanoma cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e114588	3.7	19
53	A Complete Optical Sensor System Based on a POF-SPR Platform and a Thermo-Stabilized Flow Cell for Biochemical Applications. <i>Sensors</i> , <b>2016</b> , 16, 196	3.8	18
52	Optical fiber nanotips coated with molecular beacons for DNA detection. <i>Sensors</i> , <b>2015</b> , 15, 9666-80	3.8	16
51	Electronic Detection of DNA Hybridization by Coupling Organic Field-Effect Transistor-Based Sensors and Hairpin-Shaped Probes. <i>Sensors</i> , <b>2018</b> , 18,	3.8	15

50	DNA biosensors for the detection of aflatoxin producing <i>Aspergillus flavus</i> and <i>A. parasiticus</i> . <i>Monatshefte für Chemie</i> , <b>2009</b> , 140, 901-907	1.4	15
49	Recent Advances in Optical DNA Biosensors Technology. <i>Chimia</i> , <b>2005</b> , 59, 236-242	1.3	15
48	Aptamers biosensors for pharmaceutical compounds. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2010</b> , 13, 641-9	1.3	15
47	Optical Monitoring of Therapeutic Drugs with a Novel Fluorescence- Based POCT Device. <i>Procedia Engineering</i> , <b>2014</b> , 87, 392-395		14
46	Detection of biomarkers for inflammatory diseases by an electrochemical immunoassay: the case of neopterin. <i>Talanta</i> , <b>2015</b> , 134, 48-53	6.2	13
45	A Biosensor Approach for DNA Sequences Detection in Non-amplified Genomic DNA. <i>Analytical Letters</i> , <b>2007</b> , 40, 1360-1370	2.2	13
44	Fluorescence biosensing in selectively photoactivated microbubble resonators. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 242, 1057-1064	8.5	9
43	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. <i>Optics Express</i> , <b>2017</b> , 25, 39-58	3.3	9
42	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. <i>ChemPlusChem</i> , <b>2015</b> , 80, 704-714	2.8	8
41	Nucleinsäure- und Peptidaptamere: Grundlagen und bioanalytische Aspekte. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1342-1360	3.6	7
40	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 337, 129771	8.5	7
39	Analysis of the Lowest Order Cladding Mode of Long Period Fiber Gratings Near Turn Around Point. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 4006-4012	4	6
38	Biosensors for RNA aptamers-protein interaction. <i>Methods in Molecular Biology</i> , <b>2008</b> , 419, 109-19	1.4	5
37	New Trends in Nucleic Acids Based Biosensors Florence, Italy, October 25-28, 2003. <i>Analytical Letters</i> , <b>2004</b> , 37, 1037-1052	2.2	5
36	Recent Advances on DNA Biosensors. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2001</b> , 80, 87-99	1.8	5
35	Polymeric nanoparticles promote endocytosis of a survivin molecular beacon: Localization and fate of nanoparticles and beacon in human A549 cells. <i>Life Sciences</i> , <b>2018</b> , 215, 106-112	6.8	5
34	Immunosuppressant quantification in intravenous microdialysate towards novel quasi-continuous therapeutic drug monitoring in transplanted patients. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2021</b> , 59, 935-945	5.9	4
33	Piezoelectric biosensors for aptamer-protein interaction. <i>Methods in Molecular Biology</i> , <b>2009</b> , 504, 23-36	1.4	4

32	Optical micro-bubble resonators as promising biosensors <b>2015</b> ,		3
31	Label-free IgG/anti-IgG biosensing based on long period fiber gratings: a comprehensive feasibility study <b>2015</b> ,		3
30	Localized biomolecules immobilization in optical microbubble resonators <b>2016</b> ,		3
29	A newly designed optical biochip for a TDM-POCT device <b>2014</b> ,		3
28	Analytical Applications of QCM-based Nucleic Acid Biosensors <b>2006</b> , 211-235		3
27	A Point-of-Care Device for Immunosuppressants Monitoring in Transplanted Patients. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 27-31	0.2	3
26	Optical Fibre Micro/Nano Tips as Fluorescence-Based Sensors and Interrogation Probes. <i>Optics</i> , <b>2020</b> , 1, 213-242	1.1	3
25	Aptamer optical switches: From biosensing to intracellular sensing. <i>Sensors and Actuators Reports</i> , <b>2021</b> , 3, 100030	4-7	3
24	Intracellular delivery of molecular beacons by PMMA nanoparticles and carbon nanotubes for mRNA sensing <b>2013</b> ,		2
23	Optical sensing in POCT: the contribution of the Institute of Applied Physics of the Italian CNR. <i>Laboratoriums Medizin</i> , <b>2017</b> , 41,		2
22	Complex Nanostructures Based on Oligonucleotide Optical Switches and Nanoparticles for Intracellular mRNA Sensing and Silencing. <i>Procedia Engineering</i> , <b>2014</b> , 87, 751-754		2
21	Development of an Aptamer-Based Electrochemical Sandwich Assay for the Detection of a Clinical Biomarker. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 207-210	0.2	2
20	Aptamer-Based Bioanalytical Assays: Amplification Strategies 159-179		2
19	Analytical applications of aptamers <b>2007</b> , 6585, 255		2
18	Detection of a Tumor Marker in Serum by an Electrochemical Assay Coupled to Magnetic Beads. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 157-161	0.2	2
17	Erythropoietin Detection: A Biosensor Approach. <i>Lecture Notes in Electrical Engineering</i> , <b>2012</b> , 9-13	0.2	2
16	An integrated device for fast and sensitive immunosuppressant detection.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 414, 3243	4-4	2
15	In-Parallel Polar Monitoring of Chemiluminescence Emission Anisotropy at the Solid-Liquid Interface by an Optical Fiber Radial Array. <i>Chemosensors</i> , <b>2020</b> , 8, 18	4	1

14	Total Internal Reflection Fluorescence-based Optical Biochip for the Detection of Immunosuppressants in Transplanted Patients <b>2015</b> ,		1
13	IgG/anti-IgG immunoassay based on a turn-around point long period grating <b>2014</b> ,		1
12	New Affinity Biosensors as Diagnostic Tools for Tumour Marker Analysis. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 19-23	0.2	1
11	Oligonucleotide switches and nanomaterials for intracellular mRNA sensing <b>2013</b> ,		1
10	In Vitro Radical Scavenging and Anti-Yeast Activity of Extracts from Leaves of Aloe Species Growing in Congo. <i>Natural Product Communications</i> , <b>2008</b> , 3, 1934578X0800301	0.9	1
9	Analytical Applications of QCM-based Nucleic Acid Biosensors <b>2006</b> , 211		1
8	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit <b>2019</b> ,		1
7	A waveguide absorption filter for fluorescence measurements. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 90-95	8.5	1
6	Silencing Survivin: a Key Therapeutic Strategy for Cardiac Hypertrophy. <i>Journal of Cardiovascular Translational Research</i> , <b>2021</b> , 1	3.3	1
5	Label-free immunosensing by long period fiber gratings at the lowest order cladding mode and near turn around point. <i>Optics and Laser Technology</i> , <b>2021</b> , 142, 107194	4.2	1
4	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. <i>ChemPlusChem</i> , <b>2015</b> , 80, 636	2.8	
3	Whispering Gallery Modes Microresonators for Sensing and Biosensing Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 183-186	0.2	
2	Biosensors for Clinical Biomarkers <b>2012</b> , 203-227		
1	Long Period Fiber Grating as Immunosensor: Picomolar Detection of Immunoglobulin G. <i>Lecture Notes in Electrical Engineering</i> , <b>2023</b> , 53-58	0.2	