

Sara Tombelli

List of Publications by Year in descending order

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121
papers

6,463
citations

81900

39
h-index

62596

80
g-index

131
all docs

131
docs citations

131
times ranked

6413
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated device for fast and sensitive immunosuppressant detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3243-3255.	3.7	6
2	Sensitivity Analysis of Sidelobes of the Lowest Order Cladding Mode of Long Period Fiber Gratings at Turn Around Point. <i>Sensors</i> , 2022, 22, 2965.	3.8	5
3	Analysis of the Lowest Order Cladding Mode of Long Period Fiber Gratings Near Turn Around Point. <i>Journal of Lightwave Technology</i> , 2021, 39, 4006-4012.	4.6	18
4	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129771.	7.8	16
5	Silencing Survivin: a Key Therapeutic Strategy for Cardiac Hypertrophy. <i>Journal of Cardiovascular Translational Research</i> , 2021, , 1.	2.4	1
6	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> , 2021, 142, 107194.	4.6	7
7	Aptamer optical switches: From biosensing to intracellular sensing. <i>Sensors and Actuators Reports</i> , 2021, 3, 100030.	4.4	10
8	Immunosuppressant quantification in intravenous microdialysate "towards novel quasi-continuous therapeutic drug monitoring in transplanted patients. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, 935-945.	2.3	8
9	Optical Fibre Micro/Nano Tips as Fluorescence-Based Sensors and Interrogation Probes. <i>Optics</i> , 2020, 1, 213-242.	1.2	7
10	In-Parallel Polar Monitoring of Chemiluminescence Emission Anisotropy at the Solid-Liquid Interface by an Optical Fiber Radial Array. <i>Chemosensors</i> , 2020, 8, 18.	3.6	4
11	Internalization by PMMA nanoparticle-mediated endocytosis of a survivin molecular beacon as theranostic agent in human cancer cells.. , 2020, , .		0
12	Optimization of optical fiber long period gratings for biosensing applications. , 2020, , .		0
13	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit. , 2019, , .		1
14	A waveguide absorption filter for fluorescence measurements. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 90-95.	7.8	2
15	High numerical aperture waveguide absorption filter for fluorescence detection. , 2019, , .		0
16	Magnetically driven drug delivery systems improving targeted immunotherapy for colon-rectal cancer. <i>Journal of Controlled Release</i> , 2018, 280, 76-86.	9.9	47
17	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. <i>ACS Sensors</i> , 2018, 3, 936-943.	7.8	193
18	Polymeric nanoparticles promote endocytosis of a survivin molecular beacon: Localization and fate of nanoparticles and beacon in human A549 cells. <i>Life Sciences</i> , 2018, 215, 106-112.	4.3	8

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19	Electronic Detection of DNA Hybridization by Coupling Organic Field-Effect Transistor-Based Sensors and Hairpin-Shaped Probes. <i>Sensors</i> , 2018, 18, 990.	3.8	21
20	Molecular beacon-decorated polymethylmethacrylate core-shell fluorescent nanoparticles for the detection of survivin mRNA in human cancer cells. <i>Biosensors and Bioelectronics</i> , 2017, 88, 15-24.	10.1	26
21	The light at the service of medicine: optical sensing beside the patient's bed (Conference Presentation). , 2017, , .		0
22	Novel fluorescence-based POCT platform for therapeutic drug monitoring in transplanted patients (Conference Presentation). , 2017, , .		0
23	A POCT platform for sepsis biomarkers (Conference Presentation). , 2017, , .		0
24	Biosensing with optical fiber gratings. <i>Nanophotonics</i> , 2017, 6, 663-679.	6.0	224
25	Optical sensing in POCT: the contribution of the Institute of Applied Physics of the Italian CNR. <i>Laboratoriums Medizin</i> , 2017, 41, .	0.6	4
26	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> , 2017, 253, 418-427.	7.8	39
27	Fluorescence biosensing in selectively photo-activated microbubble resonators. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1057-1064.	7.8	14
28	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> , 2017, 25, 39.	3.4	13
29	Long-period fiber grating: a specific design for biosensing applications. <i>Applied Optics</i> , 2017, 56, 9846.	1.8	38
30	A Complete Optical Sensor System Based on a POF-SPR Platform and a Thermo-Stabilized Flow Cell for Biochemical Applications. <i>Sensors</i> , 2016, 16, 196.	3.8	23
31	SPR-based plastic optical fibre biosensor for the detection of C-reactive protein in serum. <i>Journal of Biophotonics</i> , 2016, 9, 1077-1084.	2.3	73
32	Localized immunoassay in flow-through optical microbubble resonator (Conference Presentation). , 2016, , .		1
33	A thermo-stabilized flow cell for surface plasmon resonance sensors in D-shaped plastic optical fibers. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
34	Localized biomolecules immobilization in optical microbubble resonators. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
35	Manufacturing and Optimization of Sol-gel-based TiO ₂ -SiO ₂ thin Films as High Refractive Index Overlays for Long Period Grating-based Biosensing. , 2016, , .		0
36	DNA-Surfactant Thin-Film Processing and Characterization. , 2016, , 192-243.		0

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37	Comparative assessment of the performance of long period fiber grating-based biosensors. , 2015, , .		0
38	Total Internal Reflection Fluorescence-based Optical Biochip for the Detection of Immunosuppressants in Transplanted Patients. , 2015, , .		2
39	Polymethylmethacrylate Nanoparticles as Vehicle for a Molecular Beacon Specific for Survivin mRNA in A549 Cells. , 2015, , .		0
40	Solâ€“Gel-Based Titaniaâ€“Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. Analytical Chemistry, 2015, 87, 12024-12031.	6.5	102
41	A Heteroâ€“Bifunctional Spacer for the Smart Engineering of Carbonâ€“Based Nanostructures. ChemPlusChem, 2015, 80, 704-714.	2.8	10
42	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. ChemPlusChem, 2015, 80, 636-636.	2.8	0
43	Optical micro-bubble resonators as promising biosensors. Proceedings of SPIE, 2015, , .	0.8	4
44	Optical Fiber Nanotips Coated with Molecular Beacons for DNA Detection. Sensors, 2015, 15, 9666-9680.	3.8	19
45	Label-free IgG/anti-IgG biosensing based on long period fiber gratings: a comprehensive feasibility study. , 2015, , .		4
46	Optical heterogeneous bioassay for the detection of the inflammatory biomarker suPAR. , 2015, , .		1
47	Polymethylmethacrylate nanoparticles as carrier of an oligodeoxynucleotide molecular beacon specific for survivin mRNA in A549 human lung adenocarcinoma epithelial cells. , 2015, , .		0
48	Detection of biomarkers for inflammatory diseases by an electrochemical immunoassay: The case of neopterin. Talanta, 2015, 134, 48-53.	5.5	18
49	A Point-of-Care Device for Immunosuppressants Monitoring in Transplanted Patients. Lecture Notes in Electrical Engineering, 2015, , 27-31.	0.4	3
50	Theranostic Properties of a Survivin-Directed Molecular Beacon in Human Melanoma Cells. PLoS ONE, 2014, 9, e114588.	2.5	24
51	Complex Nanostructures Based on Oligonucleotide Optical Switches and Nanoparticles for Intracellular mRNA Sensing and Silencing. Procedia Engineering, 2014, 87, 751-754.	1.2	4
52	IgG/anti-IgG immunoassay based on a turn-around point long period grating. , 2014, , .		1
53	Optical Monitoring of Therapeutic Drugs with a Novel Fluorescence- Based POCT Device. Procedia Engineering, 2014, 87, 392-395.	1.2	18
54	New Affinity Biosensors as Diagnostic Tools for Tumour Marker Analysis. Lecture Notes in Electrical Engineering, 2014, , 19-23.	0.4	1

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55	Towards sensitive label-free immunosensing by means of turn-around point long period fiber gratings. <i>Biosensors and Bioelectronics</i> , 2014, 60, 305-310.	10.1	92
56	A newly designed optical biochip for a TDM-POCT device. , 2014, , .		3
57	Oligonucleotide optical switches for intracellular sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6181-6196.	3.7	32
58	Intracellular delivery of molecular beacons by PMMA nanoparticles and carbon nanotubes for mRNA sensing. , 2013, , .		2
59	Biosensing with microresonators and fibre nanotips. , 2013, , .		0
60	Oligonucleotide switches and nanomaterials for intracellular mRNA sensing. , 2013, , .		1
61	Optical fiber nanotips as carriers for molecular beacon-based biosensors. , 2013, , .		0
62	Miniaturised optical fiber pH sensor for gastro-esophageal applications. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
63	Impact of thermal oxidation, surface chemistry and porous silicon morphology for sensing applications. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
64	An Electrochemical Immunoassay for HER2 Detection. <i>Electroanalysis</i> , 2012, 24, 735-742.	2.9	72
65	Nucleic Acid and Peptide Aptamers: Fundamentals and Bioanalytical Aspects. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1316-1332.	13.8	315
66	Detection of a Tumor Marker in Serum by an Electrochemical Assay Coupled to Magnetic Beads. <i>Lecture Notes in Electrical Engineering</i> , 2011, , 157-161.	0.4	2
67	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.	5.5	63
68	Development of an Aptamer-Based Electrochemical Sandwich Assay for the Detection of a Clinical Biomarker. <i>Lecture Notes in Electrical Engineering</i> , 2010, , 207-210.	0.4	2
69	Aptamers Biosensors for Pharmaceutical Compounds. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 641-649.	1.1	23
70	Detection of C Reactive Protein (CRP) in Serum by an Electrochemical Aptamer-Based Sandwich Assay. <i>Electroanalysis</i> , 2009, 21, 1309-1315.	2.9	98
71	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.	1.8	19
72	Transgenes monitoring in an industrial soybean processing chain by DNA-based conventional approaches and biosensors. <i>Food Chemistry</i> , 2009, 113, 658-664.	8.2	40

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73	Piezoelectric Biosensors for Aptamer-Protein Interaction. <i>Methods in Molecular Biology</i> , 2009, 504, 23-36.	0.9	5
74	Different approaches for the detection of thrombin by an electrochemical aptamer-based assay coupled to magnetic beads. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1602-1609.	10.1	94
75	Development of an optical RNA-based aptasensor for C-reactive protein. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1077-1086.	3.7	89
76	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. <i>Analytica Chimica Acta</i> , 2008, 609, 139-159.	5.4	240
77	Biosensors for biomarkers in medical diagnostics. <i>Biomarkers</i> , 2008, 13, 637-657.	1.9	158
78	Biosensors for RNA Aptamer-Protein Interaction. <i>Methods in Molecular Biology</i> , 2008, 419, 109-119.	0.9	5
79	In Vitro Radical Scavenging and Anti-Yeast Activity of Extracts from Leaves of Aloe Species Growing in Congo. <i>Natural Product Communications</i> , 2008, 3, 1934578X0800301.	0.5	1
80	Analytical applications of aptamers. , 2007, 6585, 255.		2
81	A Biosensor Approach for DNA Sequences Detection in Non-amplified Genomic DNA. <i>Analytical Letters</i> , 2007, 40, 1360-1370.	1.8	14
82	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.	1.1	49
83	Aptamer-Based Detection of Plasma Proteins by an Electrochemical Assay Coupled to Magnetic Beads. <i>Analytical Chemistry</i> , 2007, 79, 1466-1473.	6.5	396
84	Polyphenol Content and Antioxidative Activity in Some Species of Freshly Consumed Salads. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 1724-1729.	5.2	144
85	Analytical Performances of Aptamer-Based Sensing for Thrombin Detection. <i>Analytical Chemistry</i> , 2007, 79, 3016-3019.	6.5	190
86	Aptamers-based assays for diagnostics, environmental and food analysis. <i>New Biotechnology</i> , 2007, 24, 191-200.	2.7	258
87	A DNA-based piezoelectric biosensor: Strategies for coupling nucleic acids to piezoelectric devices. <i>Talanta</i> , 2006, 68, 806-812.	5.5	43
88	Detection of clinically relevant point mutations by a novel piezoelectric biosensor. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1876-1879.	10.1	65
89	Analytical Applications of QCM-based Nucleic Acid Biosensors. , 2006, , 211-235.		3
90	Analytical Applications of QCM-based Nucleic Acid Biosensors. , 2006, , 211-235.		1

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91	Direct immobilisation of DNA probes for the development of affinity biosensors. <i>Bioelectrochemistry</i> , 2005, 66, 129-138.	4.6	97
92	Aptamer-based biosensors for the detection of HIV-1 Tat protein. <i>Bioelectrochemistry</i> , 2005, 67, 135-141.	4.6	242
93	Analytical applications of aptamers. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2424-2434.	10.1	906
94	Recent Advances in Optical DNA Biosensors Technology. <i>Chimia</i> , 2005, 59, 236-242.	0.6	18
95	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.	13.7	95
96	Piezoelectric biosensors: Strategies for coupling nucleic acids to piezoelectric devices. <i>Methods</i> , 2005, 37, 48-56.	3.8	76
97	An optical DNA-based biosensor for the analysis of bioactive constituents with application in drug and herbal drug screening. <i>Talanta</i> , 2005, 65, 578-585.	5.5	54
98	New Trends in Nucleic Acids Based Biosensors – Florence, Italy, October 25-28, 2003. <i>Analytical Letters</i> , 2004, 37, 1037-1052.	1.8	6
99	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.	5.4	23
100	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.	10.1	69
101	Development of biosensors with aptamers as bio-recognition element: the case of HIV-1 Tat protein. <i>Biosensors and Bioelectronics</i> , 2004, 20, 1149-1156.	10.1	196
102	Immobilisation of DNA probes for the development of SPR-based sensing. <i>Biosensors and Bioelectronics</i> , 2004, 20, 967-974.	10.1	104
103	Detection of β -thalassemia by a DNA piezoelectric biosensor coupled with polymerase chain reaction. <i>Analytica Chimica Acta</i> , 2003, 481, 55-64.	5.4	56
104	New trends in affinity sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 810-818.	11.4	207
105	Combination of amplification and post-amplification strategies to improve optical DNA sensing. <i>Biosensors and Bioelectronics</i> , 2003, 19, 337-344.	10.1	57
106	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. <i>Biosensors and Bioelectronics</i> , 2003, 18, 129-140.	10.1	210
107	Bulk acoustic wave affinity biosensor for genetically modified organisms detection. <i>IEEE Sensors Journal</i> , 2003, 3, 369-375.	4.7	23
108	A SURFACE PLASMON RESONANCE BIOSENSOR FOR THE DETERMINATION OF THE AFFINITY OF DRUGS FOR NUCLEIC ACIDS. <i>Analytical Letters</i> , 2002, 35, 599-613.	1.8	26

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109	Improved procedures for immobilisation of oligonucleotides on gold-coated piezoelectric quartz crystals. <i>Biosensors and Bioelectronics</i> , 2002, 17, 929-936.	10.1	84
110	Detection of human apolipoprotein E genotypes by DNA biosensors coupled with PCR. <i>Clinica Chimica Acta</i> , 2001, 307, 241-248.	1.1	24
111	A PIEZOELECTRIC AFFINITY BIOSENSOR FOR GENETICALLY MODIFIED ORGANISMS (GMOs) DETECTION. <i>Analytical Letters</i> , 2001, 34, 825-840.	1.8	33
112	Recent Advances on DNA Biosensors. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 80, 87-99.	3.3	7
113	Biosensors as new analytical tool for detection of Genetically Modified Organisms (GMOs). <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 589-593.	1.5	58
114	Coupling of a DNA piezoelectric biosensor and polymerase chain reaction to detect apolipoprotein E polymorphisms. <i>Biosensors and Bioelectronics</i> , 2000, 15, 363-370.	10.1	66
115	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.	5.4	94
116	Electrochemical biosensors for biogenic amines: a comparison between different approaches. <i>Analytica Chimica Acta</i> , 1998, 358, 277-284.	5.4	64
117	Aptamer-Based Bioanalytical Assays: Amplification Strategies. , 0, , 159-179.		2
118	Realization of Enhanced Evanescent Field Long Period Fiber Grating near Turn around Point for Label-Free Immunosensing. , 0, , .		1
119	Oligonucleotide molecular beacons for intracellular diagnosis and therapy. <i>SPIE Newsroom</i> , 0, , .	0.1	0
120	A fluorescence-based POCT device for immunosuppressant-drug monitoring in transplanted patient. , 0, , .		0
121	Intracellular sensing by a survivin molecular beacon coupled to PMMA nanoparticles in human cancer cells. , 0, , .		0