

Ambra Giannetti

List of Publications by Year in descending order

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116
papers

2,119
citations

236925

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243625

44
g-index

119
all docs

119
docs citations

119
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated device for fast and sensitive immunosuppressant detection. Analytical and Bioanalytical Chemistry, 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. Sensors, 2022, 22, 2965.	3.8	5
3	Ultrahigh Sensitive Detection of Tau Protein as Alzheimer's Biomarker via Microfluidics and Nanofunctionalized Optical Fiber Sensors. Advanced Photonics Research, 2022, 3, .	3.6	28
4	Analysis of the Lowest Order Cladding Mode of Long Period Fiber Gratings Near Turn Around Point. Journal of Lightwave Technology, 2021, 39, 4006-4012.	4.6	18
5	Long period grating in double cladding fiber coated with graphene oxide as high-performance optical platform for biosensing. Biosensors and Bioelectronics, 2021, 172, 112747.	10.1	100
6	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. Sensors and Actuators B: Chemical, 2021, 337, 129771.	7.8	16
7	Ion-exchanged glass microrods as hybrid SERS/fluorescence substrates for molecular beacon-based DNA detection. Analytical and Bioanalytical Chemistry, 2021, 413, 6171-6182.	3.7	4
8	Silencing Survivin: a Key Therapeutic Strategy for Cardiac Hypertrophy. Journal of Cardiovascular Translational Research, 2021, , 1.	2.4	1
9	Label-free immunosensing by long period fiber gratings at the lowest order cladding mode and near turn around point. Optics and Laser Technology, 2021, 142, 107194.	4.6	7
10	Aptamer optical switches: From biosensing to intracellular sensing. Sensors and Actuators Reports, 2021, 3, 100030.	4.4	10
11	(INVITED)Nanocoated fiber label-free biosensing for perfluorooctanoic acid detection by lossy mode resonance. Results in Optics, 2021, 5, 100123.	2.0	33
12	Immunosuppressant quantification in intravenous microdialysate " towards novel quasi-continuous therapeutic drug monitoring in transplanted patients. Clinical Chemistry and Laboratory Medicine, 2021, 59, 935-945.	2.3	8
13	Long period grating coated with graphene oxide as platform for optical fiber biosensors. , 2021, , .		0
14	Intracellular Biosensing. , 2021, , .		0
15	Optical Fibre Micro/Nano Tips as Fluorescence-Based Sensors and Interrogation Probes. Optics, 2020, 1, 213-242.	1.2	7
16	Fiber optic biosensor for inflammatory markers based on long period grating. , 2020, , .		2
17	Optical whispering gallery mode resonators for label-free detection of water contaminants. TrAC - Trends in Analytical Chemistry, 2020, 126, 115856.	11.4	18
18	In-Parallel Polar Monitoring of Chemiluminescence Emission Anisotropy at the Solid "Liquid Interface by an Optical Fiber Radial Array. Chemosensors, 2020, 8, 18.	3.6	4

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19	Towards an Integrated System as Point-of-Care Device for the Optical Detection of Sepsis Biomarkers. Chemosensors, 2020, 8, 12.	3.6	8
20	Optical Chemosensors and Biosensors. Chemosensors, 2020, 8, 33.	3.6	7
21	Lossy Mode Resonance Excitation in Fiber-Optics: Applications in Biosensing. , 2020, , .		0
22	Internalization by PMMA nanoparticle-mediated endocytosis of a survivin molecular beacon as theranostic agent in human cancer cells.. , 2020, , .		0
23	Optimization of optical fiber long period gratings for biosensing applications. , 2020, , .		0
24	Fiber-based label-free D-dimer detection for early diagnosis of venous thromboembolism. , 2020, , .		1
25	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. Biosensors and Bioelectronics: X, 2019, 2, 100026.	1.7	37
26	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit. , 2019, , .		1
27	A waveguide absorption filter for fluorescence measurements. Sensors and Actuators B: Chemical, 2019, 281, 90-95.	7.8	2
28	High numerical aperture waveguide absorption filter for fluorescence detection. , 2019, , .		0
29	Fiber-optics: a new route towards ultra-low detection limit label-free biosensing. , 2019, , .		0
30	Magnetically driven drug delivery systems improving targeted immunotherapy for colon-rectal cancer. Journal of Controlled Release, 2018, 280, 76-86.	9.9	47
31	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. ACS Sensors, 2018, 3, 936-943.	7.8	193
32	Polymeric nanoparticles promote endocytosis of a survivin molecular beacon: Localization and fate of nanoparticles and beacon in human A549 cells. Life Sciences, 2018, 215, 106-112.	4.3	8
33	Electronic Detection of DNA Hybridization by Coupling Organic Field-Effect Transistor-Based Sensors and Hairpin-Shaped Probes. Sensors, 2018, 18, 990.	3.8	21
34	Molecular beacon-decorated polymethylmethacrylate core-shell fluorescent nanoparticles for the detection of survivin mRNA in human cancer cells. Biosensors and Bioelectronics, 2017, 88, 15-24.	10.1	26
35	The light at the service of medicine: optical sensing beside the patient's bed (Conference Presentation). , 2017, , .		0
36	Novel fluorescence-based POCT platform for therapeutic drug monitoring in transplanted patients (Conference Presentation). , 2017, , .		0

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37	Biosensing with optical fiber gratings. Nanophotonics, 2017, 6, 663-679.	6.0	224
38	Optical sensing in POCT: the contribution of the Institute of Applied Physics of the Italian CNR. Laboratoriums Medizin, 2017, 41, .	0.6	4
39	Design, fabrication and characterisation of silica-titania thin film coated over coupled long period fibre gratings: Towards bio-sensing applications. Sensors and Actuators B: Chemical, 2017, 253, 418-427.	7.8	39
40	Fluorescence biosensing in selectively photo-activated microbubble resonators. Sensors and Actuators B: Chemical, 2017, 242, 1057-1064.	7.8	14
41	Long-period fiber grating: a specific design for biosensing applications. Applied Optics, 2017, 56, 9846.	1.8	38
42	A Complete Optical Sensor System Based on a POF-SPR Platform and a Thermo-Stabilized Flow Cell for Biochemical Applications. Sensors, 2016, 16, 196.	3.8	23
43	Resonance Frequency of Optical Microbubble Resonators: Direct Measurements and Mitigation of Fluctuations. Sensors, 2016, 16, 1405.	3.8	6
44	Optical Microbubble Resonators with High Refractive Index Inner Coating for Bio-Sensing Applications: An Analytical Approach. Sensors, 2016, 16, 1992.	3.8	13
45	SPR-based plastic optical fibre biosensor for the detection of C-reactive protein in serum. Journal of Biophotonics, 2016, 9, 1077-1084.	2.3	73
46	Localized immunoassay in flow-through optical microbubble resonator (Conference Presentation). , 2016, , .		1
47	A thermo-stabilized flow cell for surface plasmon resonance sensors in D-shaped plastic optical fibers. Proceedings of SPIE, 2016, , .	0.8	0
48	Clinically relevant analytical techniques, organizational concepts for application and future perspectives of point-of-care testing. Biotechnology Advances, 2016, 34, 139-160.	11.7	75
49	Localized biomolecules immobilization in optical microbubble resonators. Proceedings of SPIE, 2016, , .	0.8	3
50	Manufacturing and Optimization of Sol-gel-based TiO2-SiO2 thin Films as High Refractive Index Overlays for Long Period Grating-based Biosensing. , 2016, , .		0
51	Total Internal Reflection Fluorescence-based Optical Biochip for the Detection of Immunosuppressants in Transplanted Patients. , 2015, , .		2
52	Polymethylmethacrylate Nanoparticles as Vehicle for a Molecular Beacon Specific for Survivin mRNA in A549 Cells. , 2015, , .		0
53	Sol-Gel-Based Titania-Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. Analytical Chemistry, 2015, 87, 12024-12031.	6.5	102
54	Optical fibre nanotips fabricated by a dynamic chemical etching for sensing applications. Journal of Applied Physics, 2015, 117, 053104.	2.5	14

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55	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. ChemPlusChem, 2015, 80, 704-714.	2.8	10
56	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. ChemPlusChem, 2015, 80, 636-636.	2.8	0
57	Optical micro-bubble resonators as promising biosensors. Proceedings of SPIE, 2015, , .	0.8	4
58	Optical Fiber Nanotips Coated with Molecular Beacons for DNA Detection. Sensors, 2015, 15, 9666-9680.	3.8	19
59	Label-free IgG/anti-IgG biosensing based on long period fiber gratings: a comprehensive feasibility study. , 2015, , .		4
60	Confocal reflectance microscopy for determination of microbubble resonator thickness. Optics Express, 2015, 23, 16693.	3.4	32
61	Optical heterogeneous bioassay for the detection of the inflammatory biomarker suPAR. , 2015, , .		1
62	Polymethylmethacrylate nanoparticles as carrier of an oligodeoxynucleotide molecular beacon specific for survivin mRNA in A549 human lung adenocarcinoma epithelial cells. , 2015, , .		0
63	A Point-of-Care Device for Immunosuppressants Monitoring in Transplanted Patients. Lecture Notes in Electrical Engineering, 2015, , 27-31.	0.4	3
64	Theranostic Properties of a Survivin-Directed Molecular Beacon in Human Melanoma Cells. PLoS ONE, 2014, 9, e114588.	2.5	24
65	Complex Nanostructures Based on Oligonucleotide Optical Switches and Nanoparticles for Intracellular mRNA Sensing and Silencing. Procedia Engineering, 2014, 87, 751-754.	1.2	4
66	IgG/anti-IgG immunoassay based on a turn-around point long period grating. , 2014, , .		1
67	Optical Monitoring of Therapeutic Drugs with a Novel Fluorescence- Based POCT Device. Procedia Engineering, 2014, 87, 392-395.	1.2	18
68	Characterisation of a label-free biosensor based on long period grating. Journal of Biophotonics, 2014, 7, 312-322.	2.3	36
69	Towards sensitive label-free immunosensing by means of turn-around point long period fiber gratings. Biosensors and Bioelectronics, 2014, 60, 305-310.	10.1	92
70	A newly designed optical biochip for a TDM-POCT device. , 2014, , .		3
71	Oligonucleotide optical switches for intracellular sensing. Analytical and Bioanalytical Chemistry, 2013, 405, 6181-6196.	3.7	32
72	Intracellular delivery of molecular beacons by PMMA nanoparticles and carbon nanotubes for mRNA sensing. , 2013, , .		2

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73	Carbon nanotubes modified with fluorescein derivatives for pH nanosensing. Sensors and Actuators B: Chemical, 2013, 179, 163-169.	7.8	24
74	Hippocampal long term memory: Effect of the cholinergic system on local protein synthesis. Neurobiology of Learning and Memory, 2013, 106, 246-257.	1.9	29
75	Label-free biosensor based on long period grating. , 2013, , .		0
76	Biosensing with microresonators and fibre nanotips. , 2013, , .		0
77	Oligonucleotide switches and nanomaterials for intracellular mRNA sensing. , 2013, , .		1
78	Optical fiber nanotips as carriers for molecular beacon-based biosensors. , 2013, , .		0
79	Miniaturised optical fiber pH sensor for gastro-esophageal applications. Proceedings of SPIE, 2013, , .	0.8	0
80	Whispering gallery mode microresonators: results on aptasensors and on a new sensing approach. , 2013, , .		0
81	Impact of thermal oxidation, surface chemistry and porous silicon morphology for sensing applications. Proceedings of SPIE, 2013, , .	0.8	0
82	OPTICAL BIOSENSING IN MEDICAL AND CLINICAL DIAGNOSTICS. , 2013, , 353-367.		0
83	Performance of Eudragit Coated Whispering Gallery Mode Resonator-Based Immunosensors. Sensors, 2012, 12, 14604-14611.	3.8	14
84	Colorimetric resonant detection of biochemical agents in mesoporous silicon-based photonic crystals. , 2012, , .		0
85	Optofluidic microsystems with integrated vertical one-dimensional photonic crystals for chemical analysis. Lab on A Chip, 2012, 12, 4403.	6.0	61
86	Optical fibre gratings as tools for chemical and biochemical sensing. Analytical and Bioanalytical Chemistry, 2012, 402, 109-116.	3.7	135
87	Long period and fiber Bragg gratings written within the same fiber for sensing purposes. , 2011, , .		2
88	A novel optical probe for pH sensing in gastro-esophageal apparatus. , 2011, , .		0
89	The Channel Array Interrogation (CAI) instrument for C-reactive protein analysis. , 2011, , .		0
90	Polymer-functionalised microspheres for immunosensing applications. Proceedings of SPIE, 2010, , .	0.8	0

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91	A portable instrument for the optical interrogation of a novel biochip. Proceedings of SPIE, 2010, , .	0.8	0
92	Modified multi-walled carbon nanotubes potentially suitable for intracellular pH measurements. Proceedings of SPIE, 2010, , .	0.8	0
93	Solid-supported Zn(ii) porphyrin tweezers as optical sensors for diamines. Chemical Communications, 2010, 46, 3678.	4.1	25
94	A sandwich assay for procalcitonin detection for POCT applications. , 2009, , .		1
95	A new procalcitonin optical immunosensor for POCT applications. Analytical and Bioanalytical Chemistry, 2009, 393, 1183-1190.	3.7	37
96	An optical PMMA biochip based on fluorescence anisotropy: Application to C-reactive protein assay. Sensors and Actuators B: Chemical, 2009, 139, 64-68.	7.8	43
97	High-Q polymer-coated microspheres for immunosensing applications. Optics Express, 2009, 17, 14694.	3.4	52
98	A fluorescent immunoassay for the determination of procalcitonin and C-reactive protein. Proceedings of SPIE, 2009, , .	0.8	1
99	A new optical platform for biosensing based on fluorescence anisotropy. Analytical and Bioanalytical Chemistry, 2008, 391, 1837-1844.	3.7	26
100	An optical platform based on fluorescence anisotropy for C — reactive protein assay. , 2008, , .		0
101	Fiber Optic Sensors for Biomedical Applications. Current Analytical Chemistry, 2008, 4, 378-390.	1.2	27
102	Optical PMMA Chip Suitable for Multianalyte Detection. IEEE Sensors Journal, 2008, 8, 1305-1309.	4.7	5
103	Optical sensor for interstitial pH measurements. Journal of Biomedical Optics, 2007, 12, 024024.	2.6	29
104	Optical PMMA chip for multianalyte detection. , 2007, , .		2
105	In-vivo characterization of a microdialysis-based pH sensor. Proceedings of SPIE, 2007, , .	0.8	0
106	In-vivo continuous measurement of interstitial pH for intensive care applications. , 2007, , .		2
107	A compact optical system for the interrogation of microcantilevers. Proceedings of SPIE, 2007, , .	0.8	0
108	Carbon dioxide, oxygen, and pH detection in animal adipose tissue by means of extracorporeal microdialysis. , 2007, , .		2

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109	FRET-based protein-DNA binding assay for detection of active NF- κ B. Sensors and Actuators B: Chemical, 2006, 113, 649-654.	7.8	25
110	Interstitial pH, pO ₂ and pCO ₂ controlled by optical sensors. , 2005, 5993, 40.		3
111	Optical chemical and biochemical sensors: new trends (Invited Paper). Proceedings of SPIE, 2005, , .	0.8	17
112	FRET based biosensor for detection of active NF- κ B. , 2005, 5855, 439.		0
113	Mathematical model for the analytical signal of an herbicide sensor based on the reaction centre of. Talanta, 2005, 65, 586-592.	5.5	6
114	Optical fiber sensor for photosynthetic herbicides detection by time-resolved absorption. , 2004, , .		0
115	Time-resolved absorption as optical method for herbicide detection. Sensors and Actuators B: Chemical, 2003, 90, 198-203.	7.8	13
116	Realization of Enhanced Evanescent Field Long Period Fiber Grating near Turn around Point for Label-Free Immunosensing. , 0, , .		1