

Ambra Giannetti

List of Publications by Year in descending order

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116
papers

2,119
citations

236925

25
h-index

243625

44
g-index

119
all docs

119
docs citations

119
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosensing with optical fiber gratings. <i>Nanophotonics</i> , 2017, 6, 663-679.	6.0	224
2	Femtomolar Detection by Nanocoated Fiber Label-Free Biosensors. <i>ACS Sensors</i> , 2018, 3, 936-943.	7.8	193
3	Optical fibre gratings as tools for chemical and biochemical sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 109-116.	3.7	135
4	Solâ€“Gel-Based Titaniaâ€“Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. <i>Analytical Chemistry</i> , 2015, 87, 12024-12031.	6.5	102
5	Long period grating in double cladding fiber coated with graphene oxide as high-performance optical platform for biosensing. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112747.	10.1	100
6	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
7	Clinically relevant analytical techniques, organizational concepts for application and future perspectives of point-of-care testing. <i>Biotechnology Advances</i> , 2016, 34, 139-160.	11.7	75
8	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
9	Optofluidic microsystems with integrated vertical one-dimensional photonic crystals for chemical analysis. <i>Lab on A Chip</i> , 2012, 12, 4403.	6.0	61
10	High-Q polymer-coated microspheres for immunosensing applications. <i>Optics Express</i> , 2009, 17, 14694.	3.4	52
11	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
12	An optical PMMA biochip based on fluorescence anisotropy: Application to C-reactive protein assay. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 64-68.	7.8	43
13	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
14	Long-period fiber grating: a specific design for biosensing applications. <i>Applied Optics</i> , 2017, 56, 9846.	1.8	38
15	A new procalcitonin optical immunosensor for POCT applications. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1183-1190.	3.7	37
16	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. <i>Biosensors and Bioelectronics: X</i> , 2019, 2, 100026.	1.7	37
17	Characterisation of a labelâ€“free biosensor based on long period grating. <i>Journal of Biophotonics</i> , 2014, 7, 312-322.	2.3	36
18	(INVITED)Nanocoated fiber label-free biosensing for perfluorooctanoic acid detection by lossy mode resonance. <i>Results in Optics</i> , 2021, 5, 100123.	2.0	33

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19	Oligonucleotide optical switches for intracellular sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6181-6196.	3.7	32
20	Confocal reflectance microscopy for determination of microbubble resonator thickness. <i>Optics Express</i> , 2015, 23, 16693.	3.4	32
21	Optical sensor for interstitial pH measurements. <i>Journal of Biomedical Optics</i> , 2007, 12, 024024.	2.6	29
22	Hippocampal long term memory: Effect of the cholinergic system on local protein synthesis. <i>Neurobiology of Learning and Memory</i> , 2013, 106, 246-257.	1.9	29
23	Ultrahigh Sensitive Detection of Tau Protein as Alzheimer's Biomarker via Microfluidics and Nanofunctionalized Optical Fiber Sensors. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	28
24	Fiber Optic Sensors for Biomedical Applications. <i>Current Analytical Chemistry</i> , 2008, 4, 378-390.	1.2	27
25	A new optical platform for biosensing based on fluorescence anisotropy. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1837-1844.	3.7	26
26	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
27	FRET-based protein-DNA binding assay for detection of active NF- κ B. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 649-654.	7.8	25
28	Solid-supported Zn(ii) porphyrin tweezers as optical sensors for diamines. <i>Chemical Communications</i> , 2010, 46, 3678.	4.1	25
29	Carbon nanotubes modified with fluorescein derivatives for pH nanosensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 163-169.	7.8	24
30	Theranostic Properties of a Survivin-Directed Molecular Beacon in Human Melanoma Cells. <i>PLoS ONE</i> , 2014, 9, e114588.	2.5	24
31	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
32	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
33	Optical Fiber Nanotips Coated with Molecular Beacons for DNA Detection. <i>Sensors</i> , 2015, 15, 9666-9680.	3.8	19
34	Optical Monitoring of Therapeutic Drugs with a Novel Fluorescence- Based POCT Device. <i>Procedia Engineering</i> , 2014, 87, 392-395.	1.2	18
35	Optical whispering gallery mode resonators for label-free detection of water contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 126, 115856.	11.4	18
36	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

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37	Optical chemical and biochemical sensors: new trends (Invited Paper). Proceedings of SPIE, 2005, , .	0.8	17
38	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. Sensors and Actuators B: Chemical, 2021, 337, 129771.	7.8	16
39	Performance of Eudragit Coated Whispering Gallery Mode Resonator-Based Immunosensors. Sensors, 2012, 12, 14604-14611.	3.8	14
40	Optical fibre nanotips fabricated by a dynamic chemical etching for sensing applications. Journal of Applied Physics, 2015, 117, 053104.	2.5	14
41	Fluorescence biosensing in selectively photo-activated microbubble resonators. Sensors and Actuators B: Chemical, 2017, 242, 1057-1064.	7.8	14
42	Time-resolved absorption as optical method for herbicide detection. Sensors and Actuators B: Chemical, 2003, 90, 198-203.	7.8	13
43	Optical Microbubble Resonators with High Refractive Index Inner Coating for Bio-Sensing Applications: An Analytical Approach. Sensors, 2016, 16, 1992.	3.8	13
44	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. ChemPlusChem, 2015, 80, 704-714.	2.8	10
45	Aptamer optical switches: From biosensing to intracellular sensing. Sensors and Actuators Reports, 2021, 3, 100030.	4.4	10
46	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
47	Towards an Integrated System as Point-of-Care Device for the Optical Detection of Sepsis Biomarkers. Chemosensors, 2020, 8, 12.	3.6	8
48	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
49	Optical Fibre Micro/Nano Tips as Fluorescence-Based Sensors and Interrogation Probes. Optics, 2020, 1, 213-242.	1.2	7
50	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
51	Optical Chemosensors and Biosensors. Chemosensors, 2020, 8, 33.	3.6	7
52	Mathematical model for the analytical signal of an herbicide sensor based on the reaction centre of. Talanta, 2005, 65, 586-592.	5.5	6
53	Resonance Frequency of Optical Microbubble Resonators: Direct Measurements and Mitigation of Fluctuations. Sensors, 2016, 16, 1405.	3.8	6
54	An integrated device for fast and sensitive immunosuppressant detection. Analytical and Bioanalytical Chemistry, 2022, 414, 3243-3255.	3.7	6

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55	Optical PMMA Chip Suitable for Multianalyte Detection. IEEE Sensors Journal, 2008, 8, 1305-1309.	4.7	5
56	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
57	Complex Nanostructures Based on Oligonucleotide Optical Switches and Nanoparticles for Intracellular mRNA Sensing and Silencing. Procedia Engineering, 2014, 87, 751-754.	1.2	4
58	Optical micro-bubble resonators as promising biosensors. Proceedings of SPIE, 2015, , .	0.8	4
59	Label-free IgG/anti-IgG biosensing based on long period fiber gratings: a comprehensive feasibility study. , 2015, , .		4
60	Optical sensing in POCT: the contribution of the Institute of Applied Physics of the Italian CNR. Laboratoriums Medizin, 2017, 41, .	0.6	4
61	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
62	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
63	Interstitial pH, pO ₂ and pCO ₂ controlled by optical sensors. , 2005, 5993, 40.		3
64	A newly designed optical biochip for a TDM-POCT device. , 2014, , .		3
65	Localized biomolecules immobilization in optical microbubble resonators. Proceedings of SPIE, 2016, , .	0.8	3
66	A Point-of-Care Device for Immunosuppressants Monitoring in Transplanted Patients. Lecture Notes in Electrical Engineering, 2015, , 27-31.	0.4	3
67	Optical PMMA chip for multianalyte detection. , 2007, , .		2
68	In-vivo continuous measurement of interstitial pH for intensive care applications. , 2007, , .		2
69	Carbon dioxide, oxygen, and pH detection in animal adipose tissue by means of extracorporeal microdialysis. , 2007, , .		2
70	Long period and fiber Bragg gratings written within the same fiber for sensing purposes. , 2011, , .		2
71	Intracellular delivery of molecular beacons by PMMA nanoparticles and carbon nanotubes for mRNA sensing. , 2013, , .		2
72	Total Internal Reflection Fluorescence-based Optical Biochip for the Detection of Immunosuppressants in Transplanted Patients. , 2015, , .		2

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73	A waveguide absorption filter for fluorescence measurements. Sensors and Actuators B: Chemical, 2019, 281, 90-95.	7.8	2
74	Fiber optic biosensor for inflammatory markers based on long period grating. , 2020, , .		2
75	A sandwich assay for procalcitonin detection for POCT applications. , 2009, , .		1
76	A fluorescent immunoassay for the determination of procalcitonin and C-reactive protein. Proceedings of SPIE, 2009, , .	0.8	1
77	Oligonucleotide switches and nanomaterials for intracellular mRNA sensing. , 2013, , .		1
78	IgG/anti-IgG immunoassay based on a turn-around point long period grating. , 2014, , .		1
79	Optical heterogeneous bioassay for the detection of the inflammatory biomarker suPAR. , 2015, , .		1
80	Localized immunoassay in flow-through optical microbubble resonator (Conference Presentation). , 2016, , .		1
81	Lossy Mode Resonance Fiber-Optic Biosensing Allowing Ultra-Low Detection Limit. , 2019, , .		1
82	Realization of Enhanced Evanescent Field Long Period Fiber Grating near Turn around Point for Label-Free Immunosensing. , 0, , .		1
83	Silencing Survivin: a Key Therapeutic Strategy for Cardiac Hypertrophy. Journal of Cardiovascular Translational Research, 2021, , 1.	2.4	1
84	Fiber-based label-free D-dimer detection for early diagnosis of venous thromboembolism. , 2020, , .		1
85	Optical fiber sensor for photosynthetic herbicides detection by time-resolved absorption. , 2004, , .		0
86	FRET based biosensor for detection of active NF-kB. , 2005, 5855, 439.		0
87	In-vivo characterization of a microdialysis-based pH sensor. Proceedings of SPIE, 2007, , .	0.8	0
88	A compact optical system for the interrogation of microcantilevers. Proceedings of SPIE, 2007, , .	0.8	0
89	An optical platform based on fluorescence anisotropy for C — reactive protein assay. , 2008, , .		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	A novel optical probe for pH sensing in gastro-esophageal apparatus. , 2011, , .		0
94	The Channel Array Interrogation (CAI) instrument for C-reactive protein analysis. , 2011, , .		0
95	Colorimetric resonant detection of biochemical agents in mesoporous silicon-based photonic crystals. , 2012, , .		0
96	Label-free biosensor based on long period grating. , 2013, , .		0
97	Biosensing with microresonators and fibre nanotips. , 2013, , .		0
98	Optical fiber nanotips as carriers for molecular beacon-based biosensors. , 2013, , .		0
99	Miniaturised optical fiber pH sensor for gastro-esophageal applications. Proceedings of SPIE, 2013, , .	0.8	0
100	Whispering gallery mode microresonators: results on aptasensors and on a new sensing approach. , 2013, , .		0
101	Impact of thermal oxidation, surface chemistry and porous silicon morphology for sensing applications. Proceedings of SPIE, 2013, , .	0.8	0
102	OPTICAL BIOSENSING IN MEDICAL AND CLINICAL DIAGNOSTICS. , 2013, , 353-367.		0
103	Polymethylmethacrylate Nanoparticles as Vehicle for a Molecular Beacon Specific for Survivin mRNA in A549 Cells. , 2015, , .		0
104	A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. ChemPlusChem, 2015, 80, 636-636.	2.8	0
105	Polymethylmethacrylate nanoparticles as carrier of an oligodeoxynucleotide molecular beacon specific for survivin mRNA in A549 human lung adenocarcinoma epithelial cells. , 2015, , .		0
106	A thermo-stabilized flow cell for surface plasmon resonance sensors in D-shaped plastic optical fibers. Proceedings of SPIE, 2016, , .	0.8	0
107	The light at the service of medicine: optical sensing beside the patient's bed (Conference Presentation). , 2017, , .		0
108	Novel fluorescence-based POCT platform for therapeutic drug monitoring in transplanted patients (Conference Presentation). , 2017, , .		0

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109	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
110	High numerical aperture waveguide absorption filter for fluorescence detection. , 2019, , .		0
111	Fiber-optics: a new route towards ultra-low detection limit label-free biosensing. , 2019, , .		0
112	Lossy Mode Resonance Excitation in Fiber-Optics: Applications in Biosensing. , 2020, , .		0
113	Internalization by PMMA nanoparticle-mediated endocytosis of a survivin molecular beacon as theranostic agent in human cancer cells.. , 2020, , .		0
114	Optimization of optical fiber long period gratings for biosensing applications. , 2020, , .		0
115	Long period grating coated with graphene oxide as platform for optical fiber biosensors. , 2021, , .		0
116	Intracellular Biosensing. , 2021, , .		0