

# Laura Lechuga

## List of Publications by Year in descending order

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196  
papers

9,697  
citations

26567

56  
h-index

42291

92  
g-index

201  
all docs

201  
docs citations

201  
times ranked

9867  
citing authors

#	ARTICLE	IF	CITATIONS
1	LSPR-based nanobiosensors. <i>Nano Today</i> , 2009, 4, 244-251.	6.2	882
2	Integrated optical devices for lab-on-a-chip biosensing applications. <i>Laser and Photonics Reviews</i> , 2012, 6, 463-487.	4.4	465
3	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. <i>Nanotechnology</i> , 2003, 14, 907-912.	1.3	279
4	Trends and challenges of refractometric nanoplasmonic biosensors: A review. <i>Analytica Chimica Acta</i> , 2014, 806, 55-73.	2.6	268
5	Highly sensitive detection of biomolecules with the magneto-optic surface-plasmon-resonance sensor. <i>Optics Letters</i> , 2006, 31, 1085.	1.7	248
6	Nanomechanical biosensors: a new sensing tool. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 196-206.	5.8	248
7	Recent advances in nanoplasmonic biosensors: applications and lab-on-a-chip integration. <i>Nanophotonics</i> , 2017, 6, 123-136.	2.9	204
8	Identification of the Optimal Spectral Region for Plasmonic and Nanoplasmonic Sensing. <i>ACS Nano</i> , 2010, 4, 349-357.	7.3	174
9	Integrated Bimodal Waveguide Interferometric Biosensor for Label-Free Analysis. <i>Journal of Lightwave Technology</i> , 2011, 29, 1926-1930.	2.7	167
10	Last Advances in Silicon-Based Optical Biosensors. <i>Sensors</i> , 2016, 16, 285.	2.1	163
11	Microcantilever-based platforms as biosensing tools. <i>Analyst</i> , The, 2010, 135, 827.	1.7	157
12	Development of nanomechanical biosensors for detection of the pesticide DDT. <i>Biosensors and Bioelectronics</i> , 2003, 18, 649-653.	5.3	155
13	Optical biosensor microsystems based on the integration of highly sensitive Mach-Zehnder interferometer devices. <i>Journal of Optics</i> , 2006, 8, S561-S566.	1.5	154
14	Highly sensitive polymer-based cantilever-sensors for DNA detection. <i>Ultramicroscopy</i> , 2005, 105, 215-222.	0.8	153
15	Label-free plasmonic biosensors for point-of-care diagnostics: a review. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 71-81.	1.5	151
16	Plasmon-Induced Magneto-Optical Activity in Nanosized Gold Disks. <i>Physical Review Letters</i> , 2010, 104, 147401.	2.9	148
17	Real-time detection of chlorpyrifos at part per trillion levels in ground, surface and drinking water samples by a portable surface plasmon resonance immunosensor. <i>Analytica Chimica Acta</i> , 2006, 561, 40-47.	2.6	144
18	Determination of carbaryl in natural water samples by a surface plasmon resonance flow-through immunosensor. <i>Biosensors and Bioelectronics</i> , 2006, 21, 2129-2136.	5.3	127

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19	How Nanophotonic Label-Free Biosensors Can Contribute to Rapid and Massive Diagnostics of Respiratory Virus Infections: COVID-19 Case. <i>ACS Sensors</i> , 2020, 5, 2663-2678.	4.0	119
20	Determination of environmental organic pollutants with a portable optical immunosensor. <i>Talanta</i> , 2006, 69, 359-364.	2.9	113
21	The realization of an integrated Mach-Zehnder waveguide immunosensor in silicon technology. <i>Sensors and Actuators B: Chemical</i> , 1997, 40, 147-153.	4.0	110
22	Integrated Mach-Zehnder interferometer based on ARROW structures for biosensor applications. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 151-158.	4.0	109
23	Magneto-optic effects in surface-plasmon-polaritons slab waveguides. <i>Journal of Lightwave Technology</i> , 2006, 24, 945-955.	2.7	108
24	Suitable combination of noble/ferromagnetic metal multilayers for enhanced magneto-plasmonic biosensing. <i>Optics Express</i> , 2011, 19, 8336.	1.7	107
25	Multi-analyte SPR immunoassays for environmental biosensing of pesticides. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1449-1458.	1.9	102
26	Nanomechanics of the Formation of DNA Self-Assembled Monolayers and Hybridization on Microcantilevers. <i>Langmuir</i> , 2004, 20, 9663-9668.	1.6	97
27	Part per trillion determination of atrazine in natural water samples by a surface plasmon resonance immunosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 207-214.	1.9	97
28	Au/Fe/Au multilayer transducers for magneto-optic surface plasmon resonance sensing. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	96
29	All-optical phase modulation for integrated interferometric biosensors. <i>Optics Express</i> , 2012, 20, 7195.	1.7	91
30	A novel optical waveguide microcantilever sensor for the detection of nanomechanical forces. <i>Journal of Lightwave Technology</i> , 2006, 24, 2132-2138.	2.7	90
31	Improved Biosensing Capability with Novel Suspended Nanodisks. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5344-5351.	1.5	89
32	Nanophotonic lab-on-a-chip platforms including novel bimodal interferometers, microfluidics and grating couplers. <i>Lab on A Chip</i> , 2012, 12, 1987.	3.1	82
33	Silicon Photonic Biosensors for Lab-on-a-Chip Applications. <i>Advances in Optical Technologies</i> , 2008, 2008, 1-6.	0.8	80
34	Advanced Evanescent-Wave Optical Biosensors for the Detection of Nucleic Acids: An Analytic Perspective. <i>Frontiers in Chemistry</i> , 2019, 7, 724.	1.8	80
35	Label-Free Pathogen Detection with Sensor Chips Assembled from Peptide Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9752-9755.	7.2	78
36	Label-free detection of DNA mutations by SPR: application to the early detection of inherited breast cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1173-1182.	1.9	75

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37	Microfluidic-optical integrated CMOS compatible devices for label-free biochemical sensing. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1006-1016.	1.5	74
38	Optical immunosensor for fast and sensitive detection of DDT and related compounds in river water samples. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1410-1418.	5.3	72
39	Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. <i>Optics Express</i> , 2009, 17, 2015.	1.7	72
40	Nanophotonic label-free biosensors for environmental monitoring. <i>Current Opinion in Biotechnology</i> , 2017, 45, 175-183.	3.3	71
41	Early sepsis diagnosis via protein and miRNA biomarkers using a novel point-of-care photonic biosensor. <i>Analytica Chimica Acta</i> , 2019, 1077, 232-242.	2.6	71
42	Direct Detection of Protein Biomarkers in Human Fluids Using Site-Specific Antibody Immobilization Strategies. <i>Sensors</i> , 2014, 14, 2239-2258.	2.1	69
43	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 2-10.	4.0	68
44	A label-free nanostructured plasmonic biosensor based on Blu-ray discs with integrated microfluidics for sensitive biodetection. <i>Biosensors and Bioelectronics</i> , 2017, 96, 260-267.	5.3	68
45	Polymeric Cantilever Arrays for Biosensing Applications. <i>Sensor Letters</i> , 2003, 1, 20-24.	0.4	68
46	Site-directed antibody immobilization using a protein A-gold binding domain fusion protein for enhanced SPR immunosensing. <i>Analyst</i> , The, 2013, 138, 2023.	1.7	66
47	Towards the design of universal immunosurfaces for SPR-based assays: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 191-198.	5.8	65
48	Advances in nanoplasmonic biosensors for clinical applications. <i>Analyst</i> , The, 2019, 144, 7105-7129.	1.7	63
49	Design and analysis of silicon antiresonant reflecting optical waveguides for evanescent field sensor. <i>Journal of Lightwave Technology</i> , 2000, 18, 966-972.	2.7	62
50	Discriminating the carboxylic groups from the total acidic sites in oxidized multi-wall carbon nanotubes by means of acid-base titration. <i>Chemical Physics Letters</i> , 2008, 462, 256-259.	1.2	62
51	Label-free SPR detection of gluten peptides in urine for non-invasive celiac disease follow-up. <i>Biosensors and Bioelectronics</i> , 2016, 79, 158-164.	5.3	62
52	A CO <sub>2</sub> optical sensor based on self-assembled metal-organic framework nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13171-13177.	5.2	62
53	Determination of human growth hormone in human serum samples by surface plasmon resonance immunoassay. <i>Talanta</i> , 2009, 78, 1011-1016.	2.9	61
54	Surface plasmon resonance immunoassay analysis of pituitary hormones in urine and serum samples. <i>Clinica Chimica Acta</i> , 2009, 403, 56-62.	0.5	59

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55	Single and multi-analyte surface plasmon resonance assays for simultaneous detection of cholinesterase inhibiting pesticides. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 399-407.	4.0	58
56	Label-free nanoplasmonic sensing of tumor-associate autoantibodies for early diagnosis of colorectal cancer. <i>Analytica Chimica Acta</i> , 2016, 930, 31-38.	2.6	58
57	Highly sensitive dendrimer-based nanoplasmonic biosensor for drug allergy diagnosis. <i>Biosensors and Bioelectronics</i> , 2015, 66, 115-123.	5.3	57
58	Direct and Label-Free Quantification of Micro-RNA-181a at Attomolar Level in Complex Media Using a Nanophotonic Biosensor. <i>ACS Sensors</i> , 2016, 1, 748-756.	4.0	51
59	Label-free bimodal waveguide immunosensor for rapid diagnosis of bacterial infections in cirrhotic patients. <i>Biosensors and Bioelectronics</i> , 2016, 85, 310-316.	5.3	51
60	Label-free detection of nosocomial bacteria using a nanophotonic interferometric biosensor. <i>Analyst</i> , 2020, 145, 497-506.	1.7	50
61	A New Hydrogen Sensor Based on a Pt/GaAs Schottky Diode. <i>Journal of the Electrochemical Society</i> , 1991, 138, 159-162.	1.3	45
62	Hydrogen sensor based on a Pt/GaAs Schottky diode. <i>Sensors and Actuators B: Chemical</i> , 1991, 4, 515-518.	4.0	45
63	Label-free Bacteria Quantification in Blood Plasma by a Bioprinted Microarray Based Interferometric Point-of-Care Device. <i>ACS Sensors</i> , 2019, 4, 52-60.	4.0	45
64	Design of a surface plasmon resonance immunoassay for therapeutic drug monitoring of amikacin. <i>Talanta</i> , 2015, 141, 253-258.	2.9	44
65	Label-Free and Real-Time Detection of Tuberculosis in Human Urine Samples Using a Nanophotonic Point-of-Care Platform. <i>ACS Sensors</i> , 2018, 3, 2079-2086.	4.0	44
66	Chapter 5 Optical biosensors. <i>Comprehensive Analytical Chemistry</i> , 2005, , 209-250.	0.7	43
67	Trends in photonic lab-on-chip interferometric biosensors for point-of-care diagnostics. <i>Analytical Methods</i> , 2016, 8, 8380-8394.	1.3	42
68	Indirect competitive immunoassay for the detection of fungicide Thiabendazole in whole orange samples by Surface Plasmon Resonance. <i>Analyst</i> , 2012, 137, 5659.	1.7	41
69	Prospects of optical biosensors for emerging label-free RNA analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 177-189.	5.8	39
70	Asymmetrically coupled resonators for mass sensing. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	39
71	A low-cost integrated biosensing platform based on SiN nanophotonics for biomarker detection in urine. <i>Analytical Methods</i> , 2018, 10, 3066-3073.	1.3	39
72	Principles, technologies, and applications of plasmonic biosensors. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	39

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73	Different catalytic metals (Pt, Pd and Ir) for GaAs Schottky barrier sensors. <i>Sensors and Actuators B: Chemical</i> , 1992, 7, 614-618.	4.0	38
74	Optimized silicon antiresonant reflecting optical waveguides for sensing applications. <i>Journal of Lightwave Technology</i> , 2001, 19, 75-83.	2.7	37
75	Scalable fabrication of immunosensors based on carbon nanotube polymer composites. <i>Nanotechnology</i> , 2008, 19, 075102.	1.3	37
76	Plasma-activated multi-walled carbon nanotube-polystyrene composite substrates for biosensing. <i>Nanotechnology</i> , 2009, 20, 335501.	1.3	36
77	Optimizing the Limit of Detection of Waveguide-Based Interferometric Biosensor Devices. <i>Sensors</i> , 2019, 19, 3671.	2.1	36
78	Direct and label-free detection of the human growth hormone in urine by an ultrasensitive bimodal waveguide biosensor. <i>Journal of Biophotonics</i> , 2017, 10, 61-67.	1.1	34
79	Label-free DNA-methylation detection by direct ds-DNA fragment screening using poly-purine hairpins. <i>Biosensors and Bioelectronics</i> , 2018, 120, 47-54.	5.3	34
80	Sensitive and label-free biosensing of RNA with predicted secondary structures by a triplex affinity capture method. <i>Nucleic Acids Research</i> , 2012, 40, e56-e56.	6.5	33
81	The ammonia sensitivity of Pt/GaAs Schottky barrier diodes. <i>Journal of Applied Physics</i> , 1991, 70, 3348-3354.	1.1	32
82	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. <i>Optics Express</i> , 2015, 23, 11985.	1.7	32
83	Feasibility of evanescent wave interferometer immunosensors for pesticide detection: chemical aspects. <i>Sensors and Actuators B: Chemical</i> , 1995, 25, 762-765.	4.0	31
84	Nanophotonic biosensors for point-of-care COVID-19 diagnostics and coronavirus surveillance. <i>JPhys Photonics</i> , 2021, 3, 011002.	2.2	31
85	Species-specific modulation of food-search behavior by respiration and chemosensation in <i>Drosophila</i> larvae. <i>ELife</i> , 2017, 6, .	2.8	31
86	Grating couplers integrated on Mach-Zehnder interferometric biosensors operating in the visible range. <i>IEEE Photonics Journal</i> , 2013, 5, 3700108-3700108.	1.0	30
87	Sensitive and label-free detection of miRNA-145 by triplex formation. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 885-893.	1.9	30
88	Plasmonic Biosensors for Single-Molecule Biomedical Analysis. <i>Biosensors</i> , 2021, 11, 123.	2.3	30
89	COVID-19 biosensing technologies. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113046.	5.3	30
90	Detection and Quantification of HspX Antigen in Sputum Samples Using Plasmonic Biosensing: Toward a Real Point-of-Care (POC) for Tuberculosis Diagnosis. <i>ACS Infectious Diseases</i> , 2020, 6, 1110-1120.	1.8	29

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91	Label-Free Plasmonic Biosensor for Rapid, Quantitative, and Highly Sensitive COVID-19 Serology: Implementation and Clinical Validation. <i>Analytical Chemistry</i> , 2022, 94, 975-984.	3.2	28
92	Magneto-optical phase modulation in integrated Mach-Zehnder interferometric sensors. <i>Sensors and Actuators A: Physical</i> , 2007, 134, 339-347.	2.0	27
93	Guiding Light in Monolayers of Sparse and Random Plasmonic Meta-atoms. <i>ACS Nano</i> , 2011, 5, 9179-9186.	7.3	26
94	A comparative study of in-flow and micro-patterning biofunctionalization protocols for nanophotonic silicon-based biosensors. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 402-410.	5.0	26
95	An automated optofluidic biosensor platform combining interferometric sensors and injection moulded microfluidics. <i>Lab on A Chip</i> , 2017, 17, 2793-2804.	3.1	26
96	Linear readout of integrated interferometric biosensors using a periodic wavelength modulation. <i>Laser and Photonics Reviews</i> , 2015, 9, 248-255.	4.4	25
97	Dimension dependence of the thermomechanical noise of microcantilevers. <i>Journal of Applied Physics</i> , 2006, 99, 024910.	1.1	24
98	On-line determination of 3,5,6-trichloro-2-pyridinol in human urine samples by surface plasmon resonance immunosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2757-2765.	1.9	24
99	One-Step Immobilization of Antibodies and DNA on Gold Sensor Surfaces via a Poly-Adenine Oligonucleotide Approach. <i>Analytical Chemistry</i> , 2020, 92, 12596-12604.	3.2	24
100	Digital tuning of the quality factor of micromechanical resonant biological detectors. <i>Sensors and Actuators B: Chemical</i> , 2003, 89, 33-39.	4.0	23
101	Single- and multi-analyte determination of gonadotropic hormones in urine by Surface Plasmon Resonance immunoassay. <i>Analytica Chimica Acta</i> , 2009, 647, 202-209.	2.6	23
102	Technical Advance: Surface plasmon resonance-based analysis of CXCL12 binding using immobilized lentiviral particles. <i>Journal of Leukocyte Biology</i> , 2011, 90, 399-408.	1.5	23
103	Quantitative evaluation of alternatively spliced mRNA isoforms by label-free real-time plasmonic sensing. <i>Biosensors and Bioelectronics</i> , 2016, 78, 118-125.	5.3	22
104	Nanoplasmonic biosensor device for the monitoring of acenocoumarol therapeutic drug in plasma. <i>Biosensors and Bioelectronics</i> , 2018, 119, 149-155.	5.3	22
105	Optical nanogap antennas as plasmonic biosensors for the detection of miRNA biomarkers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4310-4317.	2.9	22
106	Analysis of alternative splicing events for cancer diagnosis using a multiplexing nanophotonic biosensor. <i>Scientific Reports</i> , 2017, 7, 41368.	1.6	21
107	Pulsed electroluminescence in silicon nanocrystals-based devices fabricated by PECVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 38, 193-196.	1.3	20
108	Detection of flagellin by interaction with human recombinant TLR5 immobilized in liposomes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1267-1281.	1.9	20

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109	Real-time detection of the chemokine CXCL12 in urine samples by surface plasmon resonance. <i>Talanta</i> , 2013, 109, 209-215.	2.9	20
110	Breakthroughs in Photonics 2012: 2012 Breakthroughs in Lab-on-a-Chip and Optical Biosensors. <i>IEEE Photonics Journal</i> , 2013, 5, 0700906-0700906.	1.0	19
111	Nanophotonic Biosensors: Driving Personalized Medicine. <i>Optics and Photonics News</i> , 2020, 31, 24.	0.4	19
112	Modulation of Proteins Adsorption onto the Surface of Chitosan Complexed with Anionic Copolymers. <i>Real Time Analysis by Surface Plasmon Resonance. Macromolecular Bioscience</i> , 2004, 4, 631-638.	2.1	18
113	Understanding the role of thiol and disulfide self-assembled DNA receptor monolayers for biosensing applications. <i>European Biophysics Journal</i> , 2010, 39, 1433-1444.	1.2	18
114	Interferometric nanoimmunosensor for label-free and real-time monitoring of Irgarol 1051 in seawater. <i>Biosensors and Bioelectronics</i> , 2018, 117, 47-52.	5.3	18
115	A compact SPR biosensor device for the rapid and efficient monitoring of gluten-free diet directly in human urine. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6407-6417.	1.9	18
116	On-line surface plasmon resonance biosensing of vascular endothelial growth factor signaling in intact-human hepatoma cell lines. <i>Analyst, The</i> , 2014, 139, 1426.	1.7	17
117	T-shaped microcantilever sensor with reduced deflection offset. <i>Applied Physics Letters</i> , 2006, 89, 094109.	1.5	16
118	Implementation of a SPR immunosensor for the simultaneous detection of the 22K and 20K hGH isoforms in human serum samples. <i>Talanta</i> , 2013, 114, 268-275.	2.9	16
119	Aptamer-peptide conjugates as a new strategy to modulate human $\hat{\pm}$ -thrombin binding affinity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1619-1630.	1.1	15
120	Biochemistry strategies for label-free optical sensor biofunctionalization: advances towards real applicability. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5071-5085.	1.9	15
121	Optical waveguide cantilever actuated by light. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	14
122	Advanced photonic biosensors for point-of-care diagnostics. <i>Procedia Engineering</i> , 2011, 25, 71-75.	1.2	14
123	Full integration of photonic nanoimmunosensors in portable platforms for on-line monitoring of ocean pollutants. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126758.	4.0	14
124	Fast and Accurate Pneumocystis Pneumonia Diagnosis in Human Samples Using a Label-Free Plasmonic Biosensor. <i>Nanomaterials</i> , 2020, 10, 1246.	1.9	14
125	Light coupling into an optical microcantilever by an embedded diffraction grating. <i>Applied Optics</i> , 2006, 45, 229.	2.1	13
126	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. <i>Sensors</i> , 2019, 19, 2821.	2.1	13



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127	Ultrasensitive Label-Free Detection of Unamplified Multidrug-Resistance Bacteria Genes with a Bimodal Waveguide Interferometric Biosensor. <i>Diagnostics</i> , 2020, 10, 845.	1.3	13
128	Real-time monitoring of fenitrothion in water samples using a silicon nanophotonic biosensor. <i>Analytica Chimica Acta</i> , 2021, 1152, 338276.	2.6	13
129	Decrease of the resonance bandwidth of micromechanical oscillators by phase control of the driving force. <i>Applied Physics Letters</i> , 2003, 82, 2919-2921.	1.5	12
130	Surface plasmon resonance biosensors for highly sensitive detection in real samples. , 2009, , .		12
131	Direct surface plasmon resonance immunosensing of pyraclostrobin residues in untreated fruit juices. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2877-86.	1.9	12
132	Gold/silver/gold trilayer films on nanostructured polycarbonate substrates for direct and label-free nanoplasmonic biosensing. <i>Journal of Biophotonics</i> , 2018, 11, e201800043.	1.1	12
133	Micro- and nanoimmunosensors: technology and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 44-46.	1.9	11
134	Biosensing microsystem platforms based on the integration of Si Mach-Zehnder interferometer, microfluidics and grating couplers. , 2009, , .		11
135	Influence of the linker type on the Au-S binding properties of thiol and disulfide-modified DNA self-assembly on polycrystalline gold. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3301.	1.3	11
136	Label-Free Biosensors Based on Bimodal Waveguide (BiMW) Interferometers. <i>Methods in Molecular Biology</i> , 2017, 1571, 161-185.	0.4	11
137	Site-Specific mRNA Cleavage for Selective and Quantitative Profiling of Alternative Splicing with Label-Free Optical Biosensors. <i>Analytical Chemistry</i> , 2019, 91, 15138-15146.	3.2	11
138	Low-cost and portable UV holographic microscope for high-contrast protein crystal imaging. <i>APL Photonics</i> , 2019, 4, 030804.	3.0	11
139	Coherent silicon photonic interferometric biosensor with an inexpensive laser source for sensitive label-free immunoassays. <i>Optics Letters</i> , 2020, 45, 6595.	1.7	11
140	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. <i>Carbon</i> , 2009, 47, 758-763.	5.4	10
141	Novel Sensing Algorithm for Linear Read-Out of Bimodal Waveguide Interferometric Biosensors. <i>Journal of Lightwave Technology</i> , 2022, 40, 237-244.	2.7	10
142	Ammonia sensitivity of Pt/GaAs Schottky barrier diodes. Improvement of the sensor with an organic layer. <i>Sensors and Actuators B: Chemical</i> , 1992, 8, 249-252.	4.0	9
143	CANTILEVER BIOSENSORS. , 2008, , 419-452.		9
144	Interferometric waveguide biosensors based on Si-technology for point-of-care diagnostic. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9

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145	Out-of-plane single-mode photonic microcantilevers for integrated nanomechanical sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 60-67.	4.0	9
146	Biosensors Based on Cantilevers. <i>Methods in Molecular Biology</i> , 2009, 504, 51-71.	0.4	9
147	Sensitivity analysis for improving nanomechanical photonic transducers biosensors. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 335401.	1.3	8
148	Fabrication of well-ordered silicon nanopillars embedded in a microchannel via metal-assisted chemical etching: a route towards an opto-mechanical biosensor. <i>RSC Advances</i> , 2016, 6, 85666-85674.	1.7	8
149	Integrated micro- and nano-optical biosensor silicon devices CMOS compatible. , 2004, 5357, 96.		7
150	Matrix Analysis of Discontinuities in Nonreciprocal Waveguides: Analytical Description for Magneto-optical Slab Waveguides. <i>Journal of Lightwave Technology</i> , 2004, 22, 1772-1781.	2.7	7
151	Tailored Height Gradients in Vertical Nanowire Arrays via Mechanical and Electronic Modulation of Metal-Assisted Chemical Etching. <i>Small</i> , 2015, 11, 4201-4208.	5.2	7
152	Low-cost vertical taper for highly efficient light in-coupling in bimodal nanointerferometric waveguide biosensors. <i>JPhys Photonics</i> , 2019, 1, 025002.	2.2	7
153	Towards a complete Lab-On-Chip system using integrated Mach-Zehnder interferometers. <i>Optica Pura Y Aplicada</i> , 2012, 45, 87-95.	0.0	7
154	Urea biosensor based on ammonia gas-sensitive Pt/GaAs Schottky diode. <i>Sensors and Actuators B: Chemical</i> , 1994, 21, 205-208.	4.0	6
155	Lab-on-a-chip platforms based on highly sensitive nanophotonic Si biosensors for single nucleotide DNA testing. , 2007, , .		6
156	Development of a surface plasmon resonance and nanomechanical biosensing hybrid platform for multiparametric reading. <i>Review of Scientific Instruments</i> , 2013, 84, 015008.	0.6	6
157	Current Trends in SPR Biosensing of SARS-CoV-2 Entry Inhibitors. <i>Chemosensors</i> , 2021, 9, 330.	1.8	6
158	Integrated optical silicon IC compatible nanodevices for biosensing applications. , 2003, , .		5
159	The effects of lipids and surfactants on TLR5-proteoliposome functionality for flagellin detection using surface plasmon resonance biosensing. <i>Talanta</i> , 2014, 126, 136-144.	2.9	5
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