

Laura Lechuga

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/89772/publications.pdf>

Version: 2024-02-01

196
papers

9,697
citations

26630
56
h-index

42399
92
g-index

201
all docs

201
docs citations

201
times ranked

9867
citing authors

#	ARTICLE	IF	CITATIONS
1	LSPR-based nanobiosensors. Nano Today, 2009, 4, 244-251.	11.9	882
2	Integrated optical devices for lab-on-a-chip biosensing applications. Laser and Photonics Reviews, 2012, 6, 463-487.	8.7	465
3	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. Nanotechnology, 2003, 14, 907-912.	2.6	279
4	Trends and challenges of refractometric nanoplasmonic biosensors: A review. Analytica Chimica Acta, 2014, 806, 55-73.	5.4	268
5	Highly sensitive detection of biomolecules with the magneto-optic surface-plasmon-resonance sensor. Optics Letters, 2006, 31, 1085.	3.3	248
6	Nanomechanical biosensors: a new sensing tool. TrAC - Trends in Analytical Chemistry, 2006, 25, 196-206.	11.4	248
7	Recent advances in nanoplasmonic biosensors: applications and lab-on-a-chip integration. Nanophotonics, 2017, 6, 123-136.	6.0	204
8	Identification of the Optimal Spectral Region for Plasmonic and Nanoplasmonic Sensing. ACS Nano, 2010, 4, 349-357.	14.6	174
9	Integrated Bimodal Waveguide Interferometric Biosensor for Label-Free Analysis. Journal of Lightwave Technology, 2011, 29, 1926-1930.	4.6	167
10	Last Advances in Silicon-Based Optical Biosensors. Sensors, 2016, 16, 285.	3.8	163
11	Microcantilever-based platforms as biosensing tools. Analyst, The, 2010, 135, 827.	3.5	157
12	Development of nanomechanical biosensors for detection of the pesticide DDT. Biosensors and Bioelectronics, 2003, 18, 649-653.	10.1	155
13	Optical biosensor microsystems based on the integration of highly sensitive Mach-Zehnder interferometer devices. Journal of Optics, 2006, 8, S561-S566.	1.5	154
14	Highly sensitive polymer-based cantilever-sensors for DNA detection. Ultramicroscopy, 2005, 105, 215-222.	1.9	153
15	Label-free plasmonic biosensors for point-of-care diagnostics: a review. Expert Review of Molecular Diagnostics, 2019, 19, 71-81.	3.1	151
16	Plasmon-Induced Magneto-Optical Activity in Nanosized Gold Disks. Physical Review Letters, 2010, 104, 147401.	7.8	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. Analytica Chimica Acta, 2006, 561, 40-47.	5.4	144
18	Determination of carbaryl in natural water samples by a surface plasmon resonance flow-through immunosensor. Biosensors and Bioelectronics, 2006, 21, 2129-2136.	10.1	127

#	ARTICLE	IF	CITATIONS
19	How Nanophotonic Label-Free Biosensors Can Contribute to Rapid and Massive Diagnostics of Respiratory Virus Infections: COVID-19 Case. ACS Sensors, 2020, 5, 2663-2678.	7.8	119
20	Determination of environmental organic pollutants with a portable optical immunosensor. Talanta, 2006, 69, 359-364.	5.5	113
21	The realization of an integrated Mach-Zehnder waveguide immunosensor in silicon technology. Sensors and Actuators B: Chemical, 1997, 40, 147-153.	7.8	110
22	Integrated Mach-Zehnder interferometer based on ARROW structures for biosensor applications. Sensors and Actuators B: Chemical, 2003, 92, 151-158.	7.8	109
23	Magneto-optic effects in surface-plasmon-polaritons slab waveguides. Journal of Lightwave Technology, 2006, 24, 945-955.	4.6	108
24	Suitable combination of noble/ferromagnetic metal multilayers for enhanced magneto-plasmonic biosensing. Optics Express, 2011, 19, 8336.	3.4	107
25	Multi-analyte SPR immunoassays for environmental biosensing of pesticides. Analytical and Bioanalytical Chemistry, 2007, 387, 1449-1458.	3.7	102
26	Nanomechanics of the Formation of DNA Self-Assembled Monolayers and Hybridization on Microcantilevers. Langmuir, 2004, 20, 9663-9668.	3.5	97
27	Part per trillion determination of atrazine in natural water samples by a surface plasmon resonance immunosensor. Analytical and Bioanalytical Chemistry, 2007, 388, 207-214.	3.7	97
28	Au/Fe/Au multilayer transducers for magneto-optic surface plasmon resonance sensing. Journal of Applied Physics, 2010, 108, .	2.5	96
29	All-optical phase modulation for integrated interferometric biosensors. Optics Express, 2012, 20, 7195.	3.4	91
30	A novel optical waveguide microcantilever sensor for the detection of nanomechanical forces. Journal of Lightwave Technology, 2006, 24, 2132-2138.	4.6	90
31	Improved Biosensing Capability with Novel Suspended Nanodisks. Journal of Physical Chemistry C, 2011, 115, 5344-5351.	3.1	89
32	Nanophotonic lab-on-a-chip platforms including novel bimodal interferometers, microfluidics and grating couplers. Lab on A Chip, 2012, 12, 1987.	6.0	82
33	Silicon Photonic Biosensors for Lab-on-a-Chip Applications. Advances in Optical Technologies, 2008, 2008, 1-6.	0.8	80
34	Advanced Evanescent-Wave Optical Biosensors for the Detection of Nucleic Acids: An Analytic Perspective. Frontiers in Chemistry, 2019, 7, 724.	3.6	80
35	Label-Free Pathogen Detection with Sensor Chips Assembled from Peptide Nanotubes. Angewandte Chemie - International Edition, 2008, 47, 9752-9755.	13.8	78
36	Label-free detection of DNA mutations by SPR: application to the early detection of inherited breast cancer. Analytical and Bioanalytical Chemistry, 2009, 393, 1173-1182.	3.7	75

#	ARTICLE	IF	CITATIONS
37	Microfluidic-optical integrated CMOS compatible devices for label-free biochemical sensing. Journal of Micromechanics and Microengineering, 2006, 16, 1006-1016.	2.6	74
38	Optical immunosensor for fast and sensitive detection of DDT and related compounds in river water samples. Biosensors and Bioelectronics, 2007, 22, 1410-1418.	10.1	72
39	Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. Optics Express, 2009, 17, 2015.	3.4	72
40	Nanophotonic label-free biosensors for environmental monitoring. Current Opinion in Biotechnology, 2017, 45, 175-183.	6.6	71
41	Early sepsis diagnosis via protein and miRNA biomarkers using a novel point-of-care photonic biosensor. Analytica Chimica Acta, 2019, 1077, 232-242.	5.4	71
42	Direct Detection of Protein Biomarkers in Human Fluids Using Site-Specific Antibody Immobilization Strategies. Sensors, 2014, 14, 2239-2258.	3.8	69
43	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. Sensors and Actuators B: Chemical, 2006, 118, 2-10.	7.8	68
44	A label-free nanostructured plasmonic biosensor based on Blu-ray discs with integrated microfluidics for sensitive biodetection. Biosensors and Bioelectronics, 2017, 96, 260-267.	10.1	68
45	Polymeric Cantilever Arrays for Biosensing Applications. Sensor Letters, 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. Analyst, The, 2013, 138, 2023.	3.5	66
47	Towards the design of universal immunosurfaces for SPR-based assays: A review. TrAC - Trends in Analytical Chemistry, 2016, 79, 191-198.	11.4	65
48	Advances in nanoplasmonic biosensors for clinical applications. Analyst, The, 2019, 144, 7105-7129.	3.5	63
49	Design and analysis of silicon antiresonant reflecting optical waveguides for evanescent field sensor. Journal of Lightwave Technology, 2000, 18, 966-972.	4.6	62
50	Discriminating the carboxylic groups from the total acidic sites in oxidized multi-wall carbon nanotubes by means of acid-base titration. Chemical Physics Letters, 2008, 462, 256-259.	2.6	62
51	Label-free SPR detection of gluten peptides in urine for non-invasive celiac disease follow-up. Biosensors and Bioelectronics, 2016, 79, 158-164.	10.1	62
52	A CO ₂ optical sensor based on self-assembled metal-organic framework nanoparticles. Journal of Materials Chemistry A, 2018, 6, 13171-13177.	10.3	62
53	Determination of human growth hormone in human serum samples by surface plasmon resonance immunoassay. Talanta, 2009, 78, 1011-1016.	5.5	61
54	Surface plasmon resonance immunoassay analysis of pituitary hormones in urine and serum samples. Clinica Chimica Acta, 2009, 403, 56-62.	1.1	59

#	ARTICLE	IF	CITATIONS
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.	7.8	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.	5.4	58
57	Highly sensitive dendrimer-based nanoplasmonic biosensor for drug allergy diagnosis. <i>Biosensors and Bioelectronics</i> , 2015, 66, 115-123.	10.1	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.	7.8	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.	10.1	51
60	Label-free detection of nosocomial bacteria using a nanophotonic interferometric biosensor. <i>Analyst</i> , 2020, 145, 497-506.	3.5	50
61	A New Hydrogen Sensor Based on a Pt/GaAs Schottky Diode. <i>Journal of the Electrochemical Society</i> , 1991, 138, 159-162.	2.9	45
62	Hydrogen sensor based on a Pt/GaAs Schottky diode. <i>Sensors and Actuators B: Chemical</i> , 1991, 4, 515-518.	7.8	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.	7.8	45
64	Design of a surface plasmon resonance immunoassay for therapeutic drug monitoring of amikacin. <i>Talanta</i> , 2015, 141, 253-258.	5.5	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.	7.8	44
66	Chapter 5 Optical biosensors. <i>Comprehensive Analytical Chemistry</i> , 2005, , 209-250.	1.3	43
67	Trends in photonic lab-on-chip interferometric biosensors for point-of-care diagnostics. <i>Analytical Methods</i> , 2016, 8, 8380-8394.	2.7	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.	3.5	41
69	Prospects of optical biosensors for emerging label-free RNA analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 177-189.	11.4	39
70	Asymmetrically coupled resonators for mass sensing. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	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.	2.7	39
72	Principles, technologies, and applications of plasmonic biosensors. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	39

#	ARTICLE	IF	CITATIONS
73	Different catalytic metals (Pt, Pd and Ir) for GaAs Schottky barrier sensors. Sensors and Actuators B: Chemical, 1992, 7, 614-618.	7.8	38
74	Optimized silicon antiresonant reflecting optical waveguides for sensing applications. Journal of Lightwave Technology, 2001, 19, 75-83.	4.6	37
75	Scalable fabrication of immunosensors based on carbon nanotube polymer composites. Nanotechnology, 2008, 19, 075102.	2.6	37
76	Plasma-activated multi-walled carbon nanotube-polystyrene composite substrates for biosensing. Nanotechnology, 2009, 20, 335501.	2.6	36
77	Optimizing the Limit of Detection of Waveguide-Based Interferometric Biosensor Devices. Sensors, 2019, 19, 3671.	3.8	36
78	Direct and label-free detection of the human growth hormone in urine by an ultrasensitive bimodal waveguide biosensor. Journal of Biophotonics, 2017, 10, 61-67.	2.3	34
79	Label-free DNA-methylation detection by direct ds-DNA fragment screening using poly-purine hairpins. Biosensors and Bioelectronics, 2018, 120, 47-54.	10.1	34
80	Sensitive and label-free biosensing of RNA with predicted secondary structures by a triplex affinity capture method. Nucleic Acids Research, 2012, 40, e56-e56.	14.5	33
81	The ammonia sensitivity of Pt/GaAs Schottky barrier diodes. Journal of Applied Physics, 1991, 70, 3348-3354.	2.5	32
82	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. Optics Express, 2015, 23, 11985.	3.4	32
83	Feasibility of evanescent wave interferometer immunosensors for pesticide detection: chemical aspects. Sensors and Actuators B: Chemical, 1995, 25, 762-765.	7.8	31
84	Nanophotonic biosensors for point-of-care COVID-19 diagnostics and coronavirus surveillance. JPhys Photonics, 2021, 3, 011002.	4.6	31
85	Species-specific modulation of food-search behavior by respiration and chemosensation in Drosophila larvae. ELife, 2017, 6, .	6.0	31
86	Grating couplers integrated on Mach-Zehnder interferometric biosensors operating in the visible range. IEEE Photonics Journal, 2013, 5, 3700108-3700108.	2.0	30
87	Sensitive and label-free detection of miRNA-145 by triplex formation. Analytical and Bioanalytical Chemistry, 2016, 408, 885-893.	3.7	30
88	Plasmonic Biosensors for Single-Molecule Biomedical Analysis. Biosensors, 2021, 11, 123.	4.7	30
89	COVID-19 biosensing technologies. Biosensors and Bioelectronics, 2021, 178, 113046.	10.1	30
90	Detection and Quantification of HspX Antigen in Sputum Samples Using Plasmonic Biosensing: Toward a Real Point-of-Care (POC) for Tuberculosis Diagnosis. ACS Infectious Diseases, 2020, 6, 1110-1120.	3.8	29

#	ARTICLE	IF	CITATIONS
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.	6.5	28
92	Magneto-optical phase modulation in integrated Mach-Zehnder interferometric sensors. <i>Sensors and Actuators A: Physical</i> , 2007, 134, 339-347.	4.1	27
93	Guiding Light in Monolayers of Sparse and Random Plasmonic Meta-atoms. <i>ACS Nano</i> , 2011, 5, 9179-9186.	14.6	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.	9.4	26
95	An automated optofluidic biosensor platform combining interferometric sensors and injection moulded microfluidics. <i>Lab on A Chip</i> , 2017, 17, 2793-2804.	6.0	26
96	Linear readout of integrated interferometric biosensors using a periodic wavelength modulation. <i>Laser and Photonics Reviews</i> , 2015, 9, 248-255.	8.7	25
97	Dimension dependence of the thermomechanical noise of microcantilevers. <i>Journal of Applied Physics</i> , 2006, 99, 024910.	2.5	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.	3.7	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.	6.5	24
100	Digital tuning of the quality factor of micromechanical resonant biological detectors. <i>Sensors and Actuators B: Chemical</i> , 2003, 89, 33-39.	7.8	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.	5.4	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.	3.3	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.	10.1	22
104	Nanoplasmonic biosensor device for the monitoring of acenocoumarol therapeutic drug in plasma. <i>Biosensors and Bioelectronics</i> , 2018, 119, 149-155.	10.1	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.	5.8	22
106	Analysis of alternative splicing events for cancer diagnosis using a multiplexing nanophotonic biosensor. <i>Scientific Reports</i> , 2017, 7, 41368.	3.3	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.	2.7	20
108	Detection of flagellin by interaction with human recombinant TLR5 immobilized in liposomes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1267-1281.	3.7	20

#	ARTICLE	IF	CITATIONS
109	Real-time detection of the chemokine CXCL12 in urine samples by surface plasmon resonance. Talanta, 2013, 109, 209-215.	5.5	20
110	Breakthroughs in Photonics 2012: 2012 Breakthroughs in Lab-on-a-Chip and Optical Biosensors. IEEE Photonics Journal, 2013, 5, 0700906-0700906.	2.0	19
111	Nanophotonic Biosensors: Driving Personalized Medicine. Optics and Photonics News, 2020, 31, 24.	0.5	19
112	Modulation of Proteins Adsorption onto the Surface of Chitosan Complexed with Anionic Copolymers. Real Time Analysis by Surface Plasmon Resonance. Macromolecular Bioscience, 2004, 4, 631-638.	4.1	18
113	Understanding the role of thiol and disulfide self-assembled DNA receptor monolayers for biosensing applications. European Biophysics Journal, 2010, 39, 1433-1444.	2.2	18
114	Interferometric nanoimmunosensor for label-free and real-time monitoring of Irgarol 1051 in seawater. Biosensors and Bioelectronics, 2018, 117, 47-52.	10.1	18
115	A compact SPR biosensor device for the rapid and efficient monitoring of gluten-free diet directly in human urine. Analytical and Bioanalytical Chemistry, 2020, 412, 6407-6417.	3.7	18
116	On-line surface plasmon resonance biosensing of vascular endothelial growth factor signaling in intact-human hepatoma cell lines. Analyst, The, 2014, 139, 1426.	3.5	17
117	T-shaped microcantilever sensor with reduced deflection offset. Applied Physics Letters, 2006, 89, 094109.	3.3	16
118	Implementation of a SPR immunosensor for the simultaneous detection of the 22K and 20K hGH isoforms in human serum samples. Talanta, 2013, 114, 268-275.	5.5	16
119	Aptamer-peptide conjugates as a new strategy to modulate human α -thrombin binding affinity. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1619-1630.	2.4	15
120	Biochemistry strategies for label-free optical sensor biofunctionalization: advances towards real applicability. Analytical and Bioanalytical Chemistry, 2022, 414, 5071-5085.	3.7	15
121	Optical waveguide cantilever actuated by light. Applied Physics Letters, 2008, 92, .	3.3	14
122	Advanced photonic biosensors for point-of-care diagnostics. Procedia Engineering, 2011, 25, 71-75.	1.2	14
123	Full integration of photonic nanoimmunosensors in portable platforms for on-line monitoring of ocean pollutants. Sensors and Actuators B: Chemical, 2019, 297, 126758.	7.8	14
124	Fast and Accurate Pneumocystis Pneumonia Diagnosis in Human Samples Using a Label-Free Plasmonic Biosensor. Nanomaterials, 2020, 10, 1246.	4.1	14
125	Light coupling into an optical microcantilever by an embedded diffraction grating. Applied Optics, 2006, 45, 229.	2.1	13
126	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. Sensors, 2019, 19, 2821.	3.8	13

#	ARTICLE	IF	CITATIONS
127	Ultrasensitive Label-Free Detection of Unamplified Multidrug-Resistance Bacteria Genes with a Bimodal Waveguide Interferometric Biosensor. <i>Diagnostics</i> , 2020, 10, 845.	2.6	13
128	Real-time monitoring of fenitrothion in water samples using a silicon nanophotonic biosensor. <i>Analytica Chimica Acta</i> , 2021, 1152, 338276.	5.4	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.	3.3	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.	3.7	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.	2.3	12
133	Micro- and nanoimmunosensors: technology and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 44-46.	3.7	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.	2.8	11
136	Label-Free Biosensors Based on Bimodal Waveguide (BiMW) Interferometers. <i>Methods in Molecular Biology</i> , 2017, 1571, 161-185.	0.9	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.	6.5	11
138	Low-cost and portable UV holographic microscope for high-contrast protein crystal imaging. <i>APL Photonics</i> , 2019, 4, 030804.	5.7	11
139	Coherent silicon photonic interferometric biosensor with an inexpensive laser source for sensitive label-free immunoassays. <i>Optics Letters</i> , 2020, 45, 6595.	3.3	11
140	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. <i>Carbon</i> , 2009, 47, 758-763.	10.3	10
141	Novel Sensing Algorithm for Linear Read-Out of Bimodal Waveguide Interferometric Biosensors. <i>Journal of Lightwave Technology</i> , 2022, 40, 237-244.	4.6	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.	7.8	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

#	ARTICLE	IF	CITATIONS
145	Out-of-plane single-mode photonic microcantilevers for integrated nanomechanical sensing platform. Sensors and Actuators B: Chemical, 2016, 232, 60-67.	7.8	9
146	Biosensors Based on Cantilevers. Methods in Molecular Biology, 2009, 504, 51-71.	0.9	9
147	Sensitivity analysis for improving nanomechanical photonic transducers biosensors. Journal Physics D: Applied Physics, 2015, 48, 335401.	2.8	8
148	Fabrication of well-ordered silicon nanopillars embedded in a microchannel via metal-assisted chemical etching: a route towards an opto-mechanical biosensor. RSC Advances, 2016, 6, 85666-85674.	3.6	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. Journal of Lightwave Technology, 2004, 22, 1772-1781.	4.6	7
151	Tailored Height Gradients in Vertical Nanowire Arrays via Mechanical and Electronic Modulation of Metal-Assisted Chemical Etching. Small, 2015, 11, 4201-4208.	10.0	7
152	Low-cost vertical taper for highly efficient light in-coupling in bimodal nanointerferometric waveguide biosensors. JPhys Photonics, 2019, 1, 025002.	4.6	7
153	Towards a complete Lab-On-Chip system using integrated Mach-Zehnder interferometers. Optica Pura Y Aplicada, 2012, 45, 87-95.	0.1	7
154	Urea biosensor based on ammonia gas-sensitive Pt/GaAs Schottky diode. Sensors and Actuators B: Chemical, 1994, 21, 205-208.	7.8	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. Review of Scientific Instruments, 2013, 84, 015008.	1.3	6
157	Current Trends in SPR Biosensing of SARS-CoV-2 Entry Inhibitors. Chemosensors, 2021, 9, 330.	3.6	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. Talanta, 2014, 126, 136-144.	5.5	5
160	Array of Microfluidic Beam Resonators for Density and Viscosity Analysis of Liquids. Journal of Microelectromechanical Systems, 2017, 26, 749-757.	2.5	4
161	Stereoisomerism in coordination chemistry: A laboratory experiment for undergraduate students. Journal of Chemical Education, 1988, 65, 1018.	2.3	3
162	Nanomechanics for specific biological detection. , 2003, 5118, 197.		3

#	ARTICLE	IF	CITATIONS
163	Optical biochemical and chemical sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2795-2796.	3.7	3
164	Towards a biosensing multiple platform based on an array of hollow microbridge resonators. , 2014, , .		3
165	Ultrasensitive Label-Free Nucleic-Acid Biosensors Based on Bimodal Waveguide Interferometers. <i>Methods in Molecular Biology</i> , 2022, 2393, 89-125.	0.9	3
166	Use of the electroreflectance technique in Pt/GaAs Schottky barrier sensor characterization. <i>Sensors and Actuators A: Physical</i> , 1992, 32, 354-356.	4.1	2
167	3-D polymeric microfluidic devices for BioMOEMS applications. , 2005, 5839, 127.		2
168	Optical biosensor based on arrays of waveguide microcantilevers. , 2007, , .		2
169	Novel nanoplasmonic biosensor integrated in a microfluidic channel. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
170	Towards an integrated optofluidic system for highly sensitive detection of antibiotics in seawater incorporating bimodal waveguide photonic biosensors and complex, active microfluidics. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
171	Silicon Photonic Label Free Biosensors with Coherent Readout. , 2020, , .		2
172	Design and characterization of high-affinity synthetic peptides as bioreceptors for diagnosis of cutaneous leishmaniasis. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4545-4555.	3.7	2
173	Silicon Photonics-based Nanobiosensors for Lab-on-a-chip Integration. , 2012, , .		2
174	Coating Bioactive Microcapsules with Tannic Acid Enhances the Phenotype of the Encapsulated Pluripotent Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27274-27286.	8.0	2
175	Chapter 13 Integrated optical transducers for (bio)chemical sensing. <i>Comprehensive Analytical Chemistry</i> , 2003, , 541-586.	1.3	1
176	Butt coupled microcantilever in sensing applications. , 2006, 6186, 55.		1
177	Polymer Based Trimodal Interferometric Sensor. , 2019, , .		1
178	Technological Platforms Based on Micro/Nanobiosensors as Early Warning Systems for Biological Warfare. , 2005, , 175-197.		1
179	Label-Free Nanoplasmonic Biosensing of Cancer Biomarkers for Clinical Diagnosis. <i>Methods in Molecular Biology</i> , 2019, 2027, 115-140.	0.9	1
180	Lens-Free Interferometric Microscope for Point-of-Care Label-Free Detection of Sepsis Biomarkers. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
181	Editorial on COVID-19 biosensing technologies- 2d Edition. Biosensors and Bioelectronics, 2022, 212, 114340.	10.1	1
182	Biosensor Devices. AIP Conference Proceedings, 2007, , .	0.4	0
183	Silicon photonic biosensors for high innovative point-of-care diagnostic platforms. , 2011, , .		0
184	Pushing the limits of plasmonic biosensing in molecular biology. , 2013, , .		0
185	Multiplexed Integrated Interferometers for Advanced Lab-on-a-Chip Biosensors. , 2013, , .		0
186	Point-of-care diagnostics using integrated optical-based interferometric nanobiosensors. , 2014, , .		0
187	Nanoplasmonic Biosensors for Label-free Deciphering of Cellular Pathways. , 2014, , .		0
188	Simulation and characterization of hollow microbridge resonators for label-free biosensing. , 2015, , .		0
189	Nanophotonic interferometric immunosensors for label-free and real-time monitoring of chemical contaminants in marine environment. Proceedings of SPIE, 2017, , .	0.8	0
190	Ultrasensitive lab-on-a-chip nanophotonic biosensors for portable diagnosis (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (0
191	Cryptophane-Cladded Interferometric Waveguide Sensor for Aqueous Methane Detection. , 2017, , .		0
192	Photonic Micro/Nanobiosensors for Early Diagnosis of Diseases. , 2006, , .		0
193	Biosensor. , 2011, , 200-204.		0
194	Biosensor. , 2014, , 1-6.		0
195	Wavelength Modulated Bimodal Interferometer for Highly Sensitive Biosensing Applications. , 2014, , .		0
196	Biosensor. , 2015, , 311-315.		0