

Laura Lechuga

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175
papers

7,608
citations

49
h-index

82
g-index

201
ext. papers

8,867
ext. citations

6
avg, IF

6.28
L-index

#	Paper	IF	Citations
175	Ultrasensitive Label-Free Nucleic-Acid Biosensors Based on Bimodal Waveguide Interferometers. <i>Methods in Molecular Biology</i> , 2022 , 2393, 89-125	1.4	0
174	Biochemistry strategies for label-free optical sensor biofunctionalization: advances towards real applicability. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	2
173	Current Trends in SPR Biosensing of SARS-CoV-2 Entry Inhibitors. <i>Chemosensors</i> , 2021 , 9, 330	4	0
172	Novel Sensing Algorithm for Linear Read-out of Bimodal Waveguide Interferometric Biosensors. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	1
171	Principles, technologies, and applications of plasmonic biosensors. <i>Journal of Applied Physics</i> , 2021 , 129, 111102	2.5	14
170	Plasmonic Biosensors for Single-Molecule Biomedical Analysis. <i>Biosensors</i> , 2021 , 11,	5.9	11
169	Real-time monitoring of fenitrothion in water samples using a silicon nanophotonic biosensor. <i>Analytica Chimica Acta</i> , 2021 , 1152, 338276	6.6	4
168	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	4.4	1
167	Nanophotonic biosensors for point-of-care COVID-19 diagnostics and coronavirus surveillance. <i>JPhys Photonics</i> , 2021 , 3, 011002	2.5	15
166	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	5.5	14
165	Optical nanogap antennas as plasmonic biosensors for the detection of miRNA biomarkers. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 4310-4317	7.3	13
164	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	4.4	10
163	Coherent silicon photonic interferometric biosensor with an inexpensive laser source for sensitive label-free immunoassays. <i>Optics Letters</i> , 2020 , 45, 6595-6598	3	3
162	Nanophotonic Biosensors: Driving Personalized Medicine. <i>Optics and Photonics News</i> , 2020 , 31, 24	1.9	11
161	Label-free detection of nosocomial bacteria using a nanophotonic interferometric biosensor. <i>Analyst, The</i> , 2020 , 145, 497-506	5	31
160	Fast and Accurate Pneumocystis Pneumonia Diagnosis in Human Samples Using a Label-Free Plasmonic Biosensor. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
159	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	9.2	64

158	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	7.8	9
157	Ultrasensitive Label-Free Detection of Unamplified Multidrug-Resistance Bacteria Genes with a Bimodal Waveguide Interferometric Biosensor. <i>Diagnostics</i> , 2020 , 10,	3.8	7
156	Optimizing the Limit of Detection of Waveguide-Based Interferometric Biosensor Devices. <i>Sensors</i> , 2019 , 19,	3.8	18
155	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. <i>Sensors</i> , 2019 , 19,	3.8	6
154	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	6.6	44
153	Low-cost vertical taper for highly efficient light in-coupling in bimodal nanointerferometric waveguide biosensors. <i>JPhys Photonics</i> , 2019 , 1, 025002	2.5	2
152	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	8.5	8
151	Aptamer-peptide conjugates as a new strategy to modulate human FII thrombin binding affinity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 1619-1630	4	10
150	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	7.8	5
149	Advanced Evanescent-Wave Optical Biosensors for the Detection of Nucleic Acids: An Analytic Perspective. <i>Frontiers in Chemistry</i> , 2019 , 7, 724	5	54
148	Lens-Free Interferometric Microscope for Point-of-Care Label-Free Detection of Sepsis Biomarkers 2019 ,		1
147	Label-Free Nanoplasmonic Biosensing of Cancer Biomarkers for Clinical Diagnosis. <i>Methods in Molecular Biology</i> , 2019 , 2027, 115-140	1.4	1
146	Low-cost and portable UV holographic microscope for high-contrast protein crystal imaging. <i>APL Photonics</i> , 2019 , 4, 030804	5.2	6
145	Advances in nanoplasmonic biosensors for clinical applications. <i>Analyst, The</i> , 2019 , 144, 7105-7129	5	45
144	Polymer Based Trimodal Interferometric Sensor 2019 ,		1
143	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	9.2	32
142	Label-free plasmonic biosensors for point-of-care diagnostics: a review. <i>Expert Review of Molecular Diagnostics</i> , 2019 , 19, 71-81	3.8	98
141	Gold/silver/gold trilayer films on nanostructured polycarbonate substrates for direct and label-free nanoplasmonic biosensing. <i>Journal of Biophotonics</i> , 2018 , 11, e201800043	3.1	7

140	Label-free DNA-methylation detection by direct ds-DNA fragment screening using poly-purine hairpins. <i>Biosensors and Bioelectronics</i> , 2018 , 120, 47-54	11.8	23
139	Nanoplasmonic biosensor device for the monitoring of acenocoumarol therapeutic drug in plasma. <i>Biosensors and Bioelectronics</i> , 2018 , 119, 149-155	11.8	13
138	A low-cost integrated biosensing platform based on SiN nanophotonics for biomarker detection in urine. <i>Analytical Methods</i> , 2018 , 10, 3066-3073	3.2	26
137	A CO ₂ optical sensor based on self-assembled metal-organic framework nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13171-13177	13	36
136	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	9.2	27
135	Interferometric nanoimmunosensor for label-free and real-time monitoring of Irgarol 1051 in seawater. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 47-52	11.8	12
134	Label-Free Biosensors Based on Bimodal Waveguide (BiMW) Interferometers. <i>Methods in Molecular Biology</i> , 2017 , 1571, 161-185	1.4	8
133	Analysis of alternative splicing events for cancer diagnosis using a multiplexing nanophotonic biosensor. <i>Scientific Reports</i> , 2017 , 7, 41368	4.9	19
132	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	11.8	49
131	Nanophotonic label-free biosensors for environmental monitoring. <i>Current Opinion in Biotechnology</i> , 2017 , 45, 175-183	11.4	43
130	. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 749-757	2.5	2
129	Asymmetrically coupled resonators for mass sensing. <i>Applied Physics Letters</i> , 2017 , 111, 113101	3.4	24
128	An automated optofluidic biosensor platform combining interferometric sensors and injection moulded microfluidics. <i>Lab on A Chip</i> , 2017 , 17, 2793-2804	7.2	18
127	Recent advances in nanoplasmonic biosensors: applications and lab-on-a-chip integration. <i>Nanophotonics</i> , 2017 , 6, 123-136	6.3	145
126	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	3.1	23
125	Species-specific modulation of food-search behavior by respiration and chemosensation in <i>Drosophila</i> larvae. <i>ELife</i> , 2017 , 6,	8.9	16
124	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	3.7	5
123	Trends in photonic lab-on-chip interferometric biosensors for point-of-care diagnostics. <i>Analytical Methods</i> , 2016 , 8, 8380-8394	3.2	32

122	Out-of-plane single-mode photonic microcantilevers for integrated nanomechanical sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 60-67	8.5	8
121	Towards the design of universal immunosurfaces for SPR-based assays: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 191-198	14.6	50
120	Prospects of optical biosensors for emerging label-free RNA analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 80, 177-189	14.6	34
119	Label-free SPR detection of gluten peptides in urine for non-invasive celiac disease follow-up. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 158-64	11.8	49
118	Quantitative evaluation of alternatively spliced mRNA isoforms by label-free real-time plasmonic sensing. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 118-125	11.8	20
117	Sensitive and label-free detection of miRNA-145 by triplex formation. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 885-93	4.4	25
116	Last Advances in Silicon-Based Optical Biosensors. <i>Sensors</i> , 2016 , 16, 285	3.8	124
115	Towards an integrated optofluidic system for highly sensitive detection of antibiotics in seawater incorporating bimodal waveguide photonic biosensors and complex, active microfluidics 2016 ,		1
114	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	9.2	40
113	Label-free nanoplasmonic sensing of tumor-associate autoantibodies for early diagnosis of colorectal cancer. <i>Analytica Chimica Acta</i> , 2016 , 930, 31-8	6.6	48
112	Label-free bimodal waveguide immunosensor for rapid diagnosis of bacterial infections in cirrhotic patients. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 310-316	11.8	35
111	Novel nanoplasmonic biosensor integrated in a microfluidic channel 2015 ,		2
110	Design of a surface plasmon resonance immunoassay for therapeutic drug monitoring of amikacin. <i>Talanta</i> , 2015 , 141, 253-8	6.2	33
109	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. <i>Optics Express</i> , 2015 , 23, 11985-94	3.3	24
108	Sensitivity analysis for improving nanomechanical photonic transducers biosensors. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 335401	3	6
107	Highly sensitive dendrimer-based nanoplasmonic biosensor for drug allergy diagnosis. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 115-23	11.8	50
106	Optical Waveguide Biosensors 2015 , 323-365		4
105	Tailored Height Gradients in Vertical Nanowire Arrays via Mechanical and Electronic Modulation of Metal-Assisted Chemical Etching. <i>Small</i> , 2015 , 11, 4201-8	11	6

104	Linear readout of integrated interferometric biosensors using a periodic wavelength modulation. <i>Laser and Photonics Reviews</i> , 2015 , 9, 248-255	8.3	19
103	On-line surface plasmon resonance biosensing of vascular endothelial growth factor signaling in intact-human hepatoma cell lines. <i>Analyst, The</i> , 2014 , 139, 1426-35	5	14
102	The effects of lipids and surfactants on TLR5-proteoliposome functionality for flagellin detection using surface plasmon resonance biosensing. <i>Talanta</i> , 2014 , 126, 136-44	6.2	5
101	Trends and challenges of refractometric nanoplasmonic biosensors: a review. <i>Analytica Chimica Acta</i> , 2014 , 806, 55-73	6.6	224
100	Towards a biosensing multiple platform based on an array of hollow microbridge resonators 2014 ,		2
99	Direct detection of protein biomarkers in human fluids using site-specific antibody immobilization strategies. <i>Sensors</i> , 2014 , 14, 2239-58	3.8	60
98	Detection of flagellin by interaction with human recombinant TLR5 immobilized in liposomes. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1267-81	4.4	16
97	Site-directed antibody immobilization using a protein A-gold binding domain fusion protein for enhanced SPR immunosensing. <i>Analyst, The</i> , 2013 , 138, 2023-31	5	58
96	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, 402-10	9.3	18
95	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, 268-75	6.2	14
94	Real-time detection of the chemokine CXCL12 in urine samples by surface plasmon resonance. <i>Talanta</i> , 2013 , 109, 209-15	6.2	15
93	Grating couplers integrated on Mach-Zehnder interferometric biosensors operating in the visible range. <i>IEEE Photonics Journal</i> , 2013 , 5, 3700108-3700108	1.8	18
92	Development of a surface plasmon resonance and nanomechanical biosensing hybrid platform for multiparametric reading. <i>Review of Scientific Instruments</i> , 2013 , 84, 015008	1.7	4
91	Breakthroughs in Photonics 2012: 2012 Breakthroughs in Lab-on-a-Chip and Optical Biosensors. <i>IEEE Photonics Journal</i> , 2013 , 5, 0700906-0700906	1.8	14
90	Direct surface plasmon resonance immunosensing of pyraclostrobin residues in untreated fruit juices. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2877-86	4.4	11
89	Nanophotonic lab-on-a-chip platforms including novel bimodal interferometers, microfluidics and grating couplers. <i>Lab on A Chip</i> , 2012 , 12, 1987-94	7.2	66
88	Indirect competitive immunoassay for the detection of fungicide Thiabendazole in whole orange samples by Surface Plasmon Resonance. <i>Analyst, The</i> , 2012 , 137, 5659-65	5	35
87	Interferometric waveguide biosensors based on Si-technology for point-of-care diagnostic 2012 ,		8

86	Integrated optical devices for lab-on-a-chip biosensing applications. <i>Laser and Photonics Reviews</i> , 2012 , 6, 463-487	8.3	361
85	All-optical phase modulation for integrated interferometric biosensors. <i>Optics Express</i> , 2012 , 20, 7195-2053	9.5	75
84	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	20.1	28
83	Towards a complete Lab-On-Chip system using integrated Mach-Zehnder interferometers. <i>Optica Pura Y Aplicada</i> , 2012 , 45, 87-95	1	5
82	Silicon Photonics-based Nanobiosensors for Lab-on-a-chip Integration 2012 ,		1
81	Advanced photonic biosensors for point-of-care diagnostics. <i>Procedia Engineering</i> , 2011 , 25, 71-75		7
80	Guiding light in monolayers of sparse and random plasmonic meta-atoms. <i>ACS Nano</i> , 2011 , 5, 9179-86	16.7	23
79	Integrated Bimodal Waveguide Interferometric Biosensor for Label-Free Analysis. <i>Journal of Lightwave Technology</i> , 2011 , 29, 1926-1930	4	126
78	Suitable combination of noble/ferromagnetic metal multilayers for enhanced magneto-plasmonic biosensing. <i>Optics Express</i> , 2011 , 19, 8336-46	3.3	90
77	Improved Biosensing Capability with Novel Suspended Nanodisks. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5344-5351	3.8	72
76	Technical advance: Surface plasmon resonance-based analysis of CXCL12 binding using immobilized lentiviral particles. <i>Journal of Leukocyte Biology</i> , 2011 , 90, 399-408	6.5	22
75	Plasmon-induced magneto-optical activity in nanosized gold disks. <i>Physical Review Letters</i> , 2010 , 104, 147401	7.4	124
74	Au/Fe/Au multilayer transducers for magneto-optic surface plasmon resonance sensing. <i>Journal of Applied Physics</i> , 2010 , 108, 054502	2.5	77
73	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, 3301-8	3.6	9
72	Identification of the optimal spectral region for plasmonic and nanoplasmonic sensing. <i>ACS Nano</i> , 2010 , 4, 349-57	16.7	150
71	Microcantilever-based platforms as biosensing tools. <i>Analyst, The</i> , 2010 , 135, 827-36	5	128
70	Understanding the role of thiol and disulfide self-assembled DNA receptor monolayers for biosensing applications. <i>European Biophysics Journal</i> , 2010 , 39, 1433-44	1.9	14
69	Plasma-activated multi-walled carbon nanotube-polystyrene composite substrates for biosensing. <i>Nanotechnology</i> , 2009 , 20, 335501	3.4	29

68	Surface plasmon resonance biosensors for highly sensitive detection in real samples 2009 ,		10
67	Biosensing microsystem platforms based on the integration of Si Mach-Zehnder interferometer, microfluidics and grating couplers 2009 ,		6
66	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, 1173-82	4.4	68
65	LSPR-based nanobiosensors. <i>Nano Today</i> , 2009 , 4, 244-251	17.9	74 ⁸
64	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. <i>Carbon</i> , 2009 , 47, 758-763	10.4	9
63	Single- and multi-analyte determination of gonadotropic hormones in urine by Surface Plasmon Resonance immunoassay. <i>Analytica Chimica Acta</i> , 2009 , 647, 202-9	6.6	20
62	Surface plasmon resonance immunoassay analysis of pituitary hormones in urine and serum samples. <i>Clinica Chimica Acta</i> , 2009 , 403, 56-62	6.2	50
61	Determination of human growth hormone in human serum samples by surface plasmon resonance immunoassay. <i>Talanta</i> , 2009 , 78, 1011-6	6.2	53
60	Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. <i>Optics Express</i> , 2009 , 17, 2015-23	3.3	60
59	Biosensors based on cantilevers. <i>Methods in Molecular Biology</i> , 2009 , 504, 51-71	1.4	8
58	CANTILEVER BIOSENSORS 2008 , 419-452		8
57	Scalable fabrication of immunosensors based on carbon nanotube polymer composites. <i>Nanotechnology</i> , 2008 , 19, 075102	3.4	3 ¹
56	Optical waveguide cantilever actuated by light. <i>Applied Physics Letters</i> , 2008 , 92, 011908	3.4	12
55	Silicon Photonic Biosensors for Lab-on-a-Chip Applications. <i>Advances in Optical Technologies</i> , 2008 , 2008, 1-6		6 ¹
54	Label-free pathogen detection with sensor chips assembled from Peptide nanotubes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9752-5	16.4	68
53	Discriminating the carboxylic groups from the total acidic sites in oxidized multi-wall carbon nanotubes by means of acidBase titration. <i>Chemical Physics Letters</i> , 2008 , 462, 256-259	2.5	50
52	Pulsed electroluminescence in silicon nanocrystals-based devices fabricated by PECVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 38, 193-196	3	20
51	Magneto-optical phase modulation in integrated MachZehnder interferometric sensors. <i>Sensors and Actuators A: Physical</i> , 2007 , 134, 339-347	3.9	25

50	Multi-analyte SPR immunoassays for environmental biosensing of pesticides. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1449-58	4.4	86
49	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, 2757-65	4.4	20
48	Part per trillion determination of atrazine in natural water samples by a surface plasmon resonance immunosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 207-14	4.4	87
47	Optical immunosensor for fast and sensitive detection of DDT and related compounds in river water samples. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1410-8	11.8	63
46	Lab-on-a-chip platforms based on highly sensitive nanophotonic Si biosensors for single nucleotide DNA testing 2007 ,		5
45	Micro- and nanoimmunosensors: technology and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 44-6	4.4	10
44	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	8.5	52
43	Butt coupled microcantilever in sensing applications 2006 , 6186, 55		1
42	T-shaped microcantilever sensor with reduced deflection offset. <i>Applied Physics Letters</i> , 2006 , 89, 094109.4	9.4	13
41	Dimension dependence of the thermomechanical noise of microcantilevers. <i>Journal of Applied Physics</i> , 2006 , 99, 024910	2.5	21
40	Microfluidic-optical integrated CMOS compatible devices for label-free biochemical sensing. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1006-1016	2	61
39	Optical biosensor microsystems based on the integration of highly sensitive Mach-Zehnder interferometer devices. <i>Journal of Optics</i> , 2006 , 8, S561-S566		117
38	Highly sensitive detection of biomolecules with the magneto-optic surface-plasmon-resonance sensor. <i>Optics Letters</i> , 2006 , 31, 1085-7	3	208
37	Light coupling into an optical microcantilever by an embedded diffraction grating. <i>Applied Optics</i> , 2006 , 45, 229-34	1.7	8
36	Magneto-optic effects in surface-plasmon-polaritons slab waveguides. <i>Journal of Lightwave Technology</i> , 2006 , 24, 945-955	4	97
35	A novel optical waveguide microcantilever sensor for the detection of nanomechanical forces. <i>Journal of Lightwave Technology</i> , 2006 , 24, 2132-2138	4	65
34	Determination of environmental organic pollutants with a portable optical immunosensor. <i>Talanta</i> , 2006 , 69, 359-64	6.2	101
33	Determination of carbaryl in natural water samples by a surface plasmon resonance flow-through immunosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 2129-36	11.8	116

32	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	6.6	129
31	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 2-10	8.5	62
30	Nanomechanical biosensors: a new sensing tool. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 196-206	14.6	207
29	Chapter 5 Optical biosensors. <i>Comprehensive Analytical Chemistry</i> , 2005 , 209-250	1.9	28
28	3-D polymeric microfluidic devices for BioMOEMS applications 2005 , 5839, 127		1
27	Highly sensitive polymer-based cantilever-sensors for DNA detection. <i>Ultramicroscopy</i> , 2005 , 105, 215-223	5.1	131
26	Technological Platforms Based on Micro/Nanobiosensors as Early Warning Systems for Biological Warfare 2005 , 175-197		1
25	Integrated micro- and nano-optical biosensor silicon devices CMOS compatible 2004 , 5357, 96		6
24	Modulation of proteins adsorption onto the surface of chitosan complexed with anionic copolymers. Real time analysis by surface plasmon resonance. <i>Macromolecular Bioscience</i> , 2004 , 4, 631-8	5.5	17
23	Nanomechanics of the formation of DNA self-assembled monolayers and hybridization on microcantilevers. <i>Langmuir</i> , 2004 , 20, 9663-8	4	85
22	Matrix analysis of discontinuities in nonreciprocal waveguides: analytical description for magneto-optical slab waveguides. <i>Journal of Lightwave Technology</i> , 2004 , 22, 1772-1781	4	5
21	Chapter 13 Integrated optical transducers for (bio)chemical sensing. <i>Comprehensive Analytical Chemistry</i> , 2003 , 541-586	1.9	
20	Integrated optical silicon IC compatible nanodevices for biosensing applications 2003 ,		3
19	Nanomechanics for specific biological detection 2003 , 5118, 197		2
18	Development of nanomechanical biosensors for detection of the pesticide DDT. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 649-53	11.8	143
17	Digital tuning of the quality factor of micromechanical resonant biological detectors. <i>Sensors and Actuators B: Chemical</i> , 2003 , 89, 33-39	8.5	19
16	Integrated Mach-Zehnder interferometer based on ARROW structures for biosensor applications. <i>Sensors and Actuators B: Chemical</i> , 2003 , 92, 151-158	8.5	99
15	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. <i>Nanotechnology</i> , 2003 , 14, 907-912	3.4	218

14	Decrease of the resonance bandwidth of micromechanical oscillators by phase control of the driving force. <i>Applied Physics Letters</i> , 2003 , 82, 2919-2921	3.4	10
13	Polymeric Cantilever Arrays for Biosensing Applications. <i>Sensor Letters</i> , 2003 , 1, 20-24	0.9	53
12	Optimized silicon antiresonant reflecting optical waveguides for sensing applications. <i>Journal of Lightwave Technology</i> , 2001 , 19, 75-83	4	28
11	Design and analysis of silicon antiresonant reflecting optical waveguides for evanescent field sensor. <i>Journal of Lightwave Technology</i> , 2000 , 18, 966-972	4	48
10	The realization of an integrated Mach-Zehnder waveguide immunosensor in silicon technology. <i>Sensors and Actuators B: Chemical</i> , 1997 , 40, 147-153	8.5	92
9	Feasibility of evanescent wave interferometer immunosensors for pesticide detection: chemical aspects. <i>Sensors and Actuators B: Chemical</i> , 1995 , 25, 762-765	8.5	25
8	Urea biosensor based on ammonia gas-sensitive Pt/GaAs Schottky diode. <i>Sensors and Actuators B: Chemical</i> , 1994 , 21, 205-208	8.5	6
7	Use of the electroreflectance technique in Pt/GaAs Schottky barrier sensor characterization. <i>Sensors and Actuators A: Physical</i> , 1992 , 32, 354-356	3.9	1
6	Different catalytic metals (Pt, Pd and Ir) for GaAs Schottky barrier sensors. <i>Sensors and Actuators B: Chemical</i> , 1992 , 7, 614-618	8.5	36
5	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	8.5	7
4	Hydrogen sensor based on a Pt/GaAs Schottky diode. <i>Sensors and Actuators B: Chemical</i> , 1991 , 4, 515-518	8.5	42
3	The ammonia sensitivity of Pt/GaAs Schottky barrier diodes. <i>Journal of Applied Physics</i> , 1991 , 70, 3348-3354	3.5	30
2	A New Hydrogen Sensor Based on a Pt / GaAs Schottky Diode. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 159-162	3.9	42
1	Stereoisomerism in coordination chemistry: A laboratory experiment for undergraduate students. <i>Journal of Chemical Education</i> , 1988 , 65, 1018	2.4	3