List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Novel Sensing Algorithm for Linear Read-Out of Bimodal Waveguide Interferometric Biosensors. Journal of Lightwave Technology, 2022, 40, 237-244.	4.6	10
2	Biochemistry strategies for label-free optical sensor biofunctionalization: advances towards real applicability. Analytical and Bioanalytical Chemistry, 2022, 414, 5071-5085.	3.7	15
3	Ultrasensitive Label-Free Nucleic-Acid Biosensors Based on Bimodal Waveguide Interferometers. Methods in Molecular Biology, 2022, 2393, 89-125.	0.9	3
4	Label-Free Plasmonic Biosensor for Rapid, Quantitative, and Highly Sensitive COVID-19 Serology: Implementation and Clinical Validation. Analytical Chemistry, 2022, 94, 975-984.	6.5	28
5	Editorial on COVID-19 biosensing technologies- 2d Edition. Biosensors and Bioelectronics, 2022, 212, 114340.	10.1	1
6	Coating Bioactive Microcapsules with Tannic Acid Enhances the Phenotype of the Encapsulated Pluripotent Stem Cells. ACS Applied Materials & amp; Interfaces, 2022, 14, 27274-27286.	8.0	2
7	Nanophotonic biosensors for point-of-care COVID-19 diagnostics and coronavirus surveillance. JPhys Photonics, 2021, 3, 011002.	4.6	31
8	Principles, technologies, and applications of plasmonic biosensors. Journal of Applied Physics, 2021, 129, .	2.5	39
9	Plasmonic Biosensors for Single-Molecule Biomedical Analysis. Biosensors, 2021, 11, 123.	4.7	30
10	COVID-19 biosensing technologies. Biosensors and Bioelectronics, 2021, 178, 113046.	10.1	30
11	Real-time monitoring of fenitrothion in water samples using a silicon nanophotonic biosensor. Analytica Chimica Acta, 2021, 1152, 338276.	5.4	13
12	Design and characterization of high-affinity synthetic peptides as bioreceptors for diagnosis of cutaneous leishmaniasis. Analytical and Bioanalytical Chemistry, 2021, 413, 4545-4555.	3.7	2
13	Current Trends in SPR Biosensing of SARS-CoV-2 Entry Inhibitors. Chemosensors, 2021, 9, 330.	3.6	6
14	Label-free detection of nosocomial bacteria using a nanophotonic interferometric biosensor. Analyst, The, 2020, 145, 497-506.	3.5	50
15	Silicon Photonic Label Free Biosensors with Coherent Readout. , 2020, , .		2
16	Fast and Accurate Pneumocystis Pneumonia Diagnosis in Human Samples Using a Label-Free Plasmonic Biosensor. Nanomaterials, 2020, 10, 1246.	4.1	14
17	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
18	One-Step Immobilization of Antibodies and DNA on Gold Sensor Surfaces via a Poly-Adenine Oligonucleotide Approach. Analytical Chemistry, 2020, 92, 12596-12604.	6.5	24

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19	Ultrasensitive Label-Free Detection of Unamplified Multidrug-Resistance Bacteria Genes with a Bimodal Waveguide Interferometric Biosensor. Diagnostics, 2020, 10, 845.	2.6	13
20	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
21	Optical nanogap antennas as plasmonic biosensors for the detection of miRNA biomarkers. Journal of Materials Chemistry B, 2020, 8, 4310-4317.	5.8	22
22	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
23	Coherent silicon photonic interferometric biosensor with an inexpensive laser source for sensitive label-free immunoassays. Optics Letters, 2020, 45, 6595.	3.3	11
24	Nanophotonic Biosensors: Driving Personalized Medicine. Optics and Photonics News, 2020, 31, 24.	0.5	19
25	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
26	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
27	Site-Specific mRNA Cleavage for Selective and Quantitative Profiling of Alternative Splicing with Label-Free Optical Biosensors. Analytical Chemistry, 2019, 91, 15138-15146.	6.5	11
28	Advanced Evanescent-Wave Optical Biosensors for the Detection of Nucleic Acids: An Analytic Perspective. Frontiers in Chemistry, 2019, 7, 724.	3.6	80
29	Optimizing the Limit of Detection of Waveguide-Based Interferometric Biosensor Devices. Sensors, 2019, 19, 3671.	3.8	36
30	Trimodal Waveguide Demonstration and Its Implementation as a High Order Mode Interferometer for Sensing Application. Sensors, 2019, 19, 2821.	3.8	13
31	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
32	Low-cost vertical taper for highly efficient light in-coupling in bimodal nanointerferometric waveguide biosensors. JPhys Photonics, 2019, 1, 025002.	4.6	7
33	Low-cost and portable UV holographic microscope for high-contrast protein crystal imaging. APL Photonics, 2019, 4, 030804.	5.7	11
34	Advances in nanoplasmonic biosensors for clinical applications. Analyst, The, 2019, 144, 7105-7129.	3.5	63
35	Polymer Based Trimodal Interferometric Sensor. , 2019, , .		1
36	Label-free Bacteria Quantification in Blood Plasma by a Bioprinted Microarray Based Interferometric Point-of-Care Device. ACS Sensors, 2019, 4, 52-60.	7.8	45

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37	Label-free plasmonic biosensors for point-of-care diagnostics: a review. Expert Review of Molecular Diagnostics, 2019, 19, 71-81.	3.1	151
38	Label-Free Nanoplasmonic Biosensing of Cancer Biomarkers for Clinical Diagnosis. Methods in Molecular Biology, 2019, 2027, 115-140.	0.9	1
39	Lens-Free Interferometric Microscope for Point-of-Care Label-Free Detection of Sepsis Biomarkers. , 2019, , .		1
40	Gold/silver/gold trilayer films on nanostructured polycarbonate substrates for direct and labelâ€free nanoplasmonic biosensing. Journal of Biophotonics, 2018, 11, e201800043.	2.3	12
41	Label-Free and Real-Time Detection of Tuberculosis in Human Urine Samples Using a Nanophotonic Point-of-Care Platform. ACS Sensors, 2018, 3, 2079-2086.	7.8	44
42	Interferometric nanoimmunosensor for label-free and real-time monitoring of Irgarol 1051 in seawater. Biosensors and Bioelectronics, 2018, 117, 47-52.	10.1	18
43	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
44	Nanoplasmonic biosensor device for the monitoring of acenocoumarol therapeutic drug in plasma. Biosensors and Bioelectronics, 2018, 119, 149-155.	10.1	22
45	A low-cost integrated biosensing platform based on SiN nanophotonics for biomarker detection in urine. Analytical Methods, 2018, 10, 3066-3073.	2.7	39
46	A CO <sub>2</sub> optical sensor based on self-assembled metal–organic framework nanoparticles. Journal of Materials Chemistry A, 2018, 6, 13171-13177.	10.3	62
47	Label-Free Biosensors Based on Bimodal Waveguide (BiMW) Interferometers. Methods in Molecular Biology, 2017, 1571, 161-185.	0.9	11
48	Analysis of alternative splicing events for cancer diagnosis using a multiplexing nanophotonic biosensor. Scientific Reports, 2017, 7, 41368.	3.3	21
49	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
50	Nanophotonic interferometric immunosensors for label-free and real-time monitoring of chemical contaminants in marine environment. Proceedings of SPIE, 2017, , .	0.8	0
51	Nanophotonic label-free biosensors for environmental monitoring. Current Opinion in Biotechnology, 2017, 45, 175-183.	6.6	71
52	Array of Microfluidic Beam Resonators for Density and Viscosity Analysis of Liquids. Journal of Microelectromechanical Systems, 2017, 26, 749-757.	2.5	4
53	Ultrasensitive lab-on-a-chip nanophotonic biosensors for portable diagnosis (Conference) Tj ETQq1 1 0.784314 r	gBT /Over	lock 10 Tf 5(
54	Asymmetrically coupled resonators for mass sensing. Applied Physics Letters, 2017, 111, .	3.3	39

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55	An automated optofluidic biosensor platform combining interferometric sensors and injection moulded microfluidics. Lab on A Chip, 2017, 17, 2793-2804.	6.0	26
56	Recent advances in nanoplasmonic biosensors: applications and lab-on-a-chip integration. Nanophotonics, 2017, 6, 123-136.	6.0	204
57	Direct and labelâ€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
58	Cryptophane-Cladded Interferometric Waveguide Sensor for Aqueous Methane Detection. , 2017, , .		0
59	Species-specific modulation of food-search behavior by respiration and chemosensation in Drosophila larvae. ELife, 2017, 6, .	6.0	31
60	Last Advances in Silicon-Based Optical Biosensors. Sensors, 2016, 16, 285.	3.8	163
61	Towards an integrated optofluidic system for highly sensitive detection of antibiotics in seawater incorporating bimodal waveguide photonic biosensors and complex, active microfluidics. Proceedings of SPIE, 2016, , .	0.8	2
62	Direct and Label-Free Quantification of Micro-RNA-181a at Attomolar Level in Complex Media Using a Nanophotonic Biosensor. ACS Sensors, 2016, 1, 748-756.	7.8	51
63	Label-free nanoplasmonic sensing of tumor-associate autoantibodies for early diagnosis of colorectal cancer. Analytica Chimica Acta, 2016, 930, 31-38.	5.4	58
64	Label-free bimodal waveguide immunosensor for rapid diagnosis of bacterial infections in cirrhotic patients. Biosensors and Bioelectronics, 2016, 85, 310-316.	10.1	51
65	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
66	Trends in photonic lab-on-chip interferometric biosensors for point-of-care diagnostics. Analytical Methods, 2016, 8, 8380-8394.	2.7	42
67	Out-of-plane single-mode photonic microcantilevers for integrated nanomechanical sensing platform. Sensors and Actuators B: Chemical, 2016, 232, 60-67.	7.8	9
68	Towards the design of universal immunosurfaces for SPR-based assays: A review. TrAC - Trends in Analytical Chemistry, 2016, 79, 191-198.	11.4	65
69	Prospects of optical biosensors for emerging label-free RNA analysis. TrAC - Trends in Analytical Chemistry, 2016, 80, 177-189.	11.4	39
70	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
71	Quantitative evaluation of alternatively spliced mRNA isoforms by label-free real-time plasmonic sensing. Biosensors and Bioelectronics, 2016, 78, 118-125.	10.1	22
72	Sensitive and label-free detection of miRNA-145 by triplex formation. Analytical and Bioanalytical Chemistry, 2016, 408, 885-893.	3.7	30

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73	Tailored Height Gradients in Vertical Nanowire Arrays via Mechanical and Electronic Modulation of Metalâ€Assisted Chemical Etching. Small, 2015, 11, 4201-4208.	10.0	7
74	Linear readout of integrated interferometric biosensors using a periodic wavelength modulation. Laser and Photonics Reviews, 2015, 9, 248-255.	8.7	25
75	Simulation and characterization of hollow microbridge resonators for label-free biosensing. , 2015, , .		0
76	Novel nanoplasmonic biosensor integrated in a microfluidic channel. Proceedings of SPIE, 2015, , .	0.8	2
77	Design of a surface plasmon resonance immunoassay for therapeutic drug monitoring of amikacin. Talanta, 2015, 141, 253-258.	5.5	44
78	Study of a low-cost trimodal polymer waveguide for interferometric optical biosensors. Optics Express, 2015, 23, 11985.	3.4	32
79	Sensitivity analysis for improving nanomechanical photonic transducers biosensors. Journal Physics D: Applied Physics, 2015, 48, 335401.	2.8	8
80	Highly sensitive dendrimer-based nanoplasmonic biosensor for drug allergy diagnosis. Biosensors and Bioelectronics, 2015, 66, 115-123.	10.1	57
81	Biosensor. , 2015, , 311-315.		0
82	Point-of-care diagnostics using integrated optical-based interferometric nanobiosensors. , 2014, , .		0
83	Towards a biosensing multiple platform based on an array of hollow microbridge resonators. , 2014, ,		3
84	Nanoplasmonic Biosensors for Label-free Deciphering of Cellular Pathways. , 2014, , .		0
85	Direct Detection of Protein Biomarkers in Human Fluids Using Site-Specific Antibody Immobilization Strategies. Sensors, 2014, 14, 2239-2258.	3.8	69
86	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
87	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
88	Trends and challenges of refractometric nanoplasmonic biosensors: A review. Analytica Chimica Acta, 2014, 806, 55-73.	5.4	268
89	Biosensor. , 2014, , 1-6.		0

90 Wavelength Modulated Bimodal Interferometer for Highly Sensitive Biosensing Applications. , 2014, , .

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91	Detection of flagellin by interaction with human recombinant TLR5 immobilized in liposomes. Analytical and Bioanalytical Chemistry, 2013, 405, 1267-1281.	3.7	20
92	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
93	A comparative study of in-flow and micro-patterning biofunctionalization protocols for nanophotonic silicon-based biosensors. Journal of Colloid and Interface Science, 2013, 393, 402-410.	9.4	26
94	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
95	Real-time detection of the chemokine CXCL12 in urine samples by surface plasmon resonance. Talanta, 2013, 109, 209-215.	5.5	20
96	Grating couplers integrated on Mach-Zehnder interferometric biosensors operating in the visible range. IEEE Photonics Journal, 2013, 5, 3700108-3700108.	2.0	30
97	Pushing the limits of plasmonic biosensing in molecular biology. , 2013, , .		0
98	Development of a surface plasmon resonance and nanomechanical biosensing hybrid platform for multiparametric reading. Review of Scientific Instruments, 2013, 84, 015008.	1.3	6
99	Breakthroughs in Photonics 2012: 2012 Breakthroughs in Lab-on-a-Chip and Optical Biosensors. IEEE Photonics Journal, 2013, 5, 0700906-0700906.	2.0	19
100	Multiplexed Integrated Interferometers for Advanced Lab-on-a-Chip Biosensors. , 2013, , .		0
101	All-optical phase modulation for integrated interferometric biosensors. Optics Express, 2012, 20, 7195.	3.4	91
102	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
103	Direct surface plasmon resonance immunosensing of pyraclostrobin residues in untreated fruit juices. Analytical and Bioanalytical Chemistry, 2012, 404, 2877-86.	3.7	12
104	Nanophotonic lab-on-a-chip platforms including novel bimodal interferometers, microfluidics and grating couplers. Lab on A Chip, 2012, 12, 1987.	6.0	82
105	Indirect competitive immunoassay for the detection of fungicide Thiabendazole in whole orange samples by Surface Plasmon Resonance. Analyst, The, 2012, 137, 5659.	3.5	41
106	Interferometric waveguide biosensors based on Si-technology for point-of-care diagnostic. Proceedings of SPIE, 2012, , .	0.8	9
107	Optical biochemical and chemical sensors. Analytical and Bioanalytical Chemistry, 2012, 404, 2795-2796.	3.7	3
108	Integrated optical devices for labâ€onâ€aâ€chip biosensing applications. Laser and Photonics Reviews, 2012, 6, 463-487.	8.7	465

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109	Towards a complete Lab-On-Chip system using integrated Mach-Zehnder interferometers. Optica Pura Y Aplicada, 2012, 45, 87-95.	0.1	7
110	Silicon Photonics-based Nanobiosensors for Lab-on-a-chip Integration. , 2012, , .		2
111	Silicon photonic biosensors for high innovative point-of-care diagnostic platforms. , 2011, , .		Ο
112	Improved Biosensing Capability with Novel Suspended Nanodisks. Journal of Physical Chemistry C, 2011, 115, 5344-5351.	3.1	89
113	Advanced photonic biosensors for point-of-care diagnostics. Procedia Engineering, 2011, 25, 71-75.	1.2	14
114	Guiding Light in Monolayers of Sparse and Random Plasmonic Meta-atoms. ACS Nano, 2011, 5, 9179-9186.	14.6	26
115	Integrated Bimodal Waveguide Interferometric Biosensor for Label-Free Analysis. Journal of Lightwave Technology, 2011, 29, 1926-1930.	4.6	167
116	Suitable combination of noble/ferromagnetic metal multilayers for enhanced magneto-plasmonic biosensing. Optics Express, 2011, 19, 8336.	3.4	107
117	Technical Advance: Surface plasmon resonance-based analysis of CXCL12 binding using immobilized lentiviral particles. Journal of Leukocyte Biology, 2011, 90, 399-408.	3.3	23
118	Biosensor. , 2011, , 200-204.		0
119	Identification of the Optimal Spectral Region for Plasmonic and Nanoplasmonic Sensing. ACS Nano, 2010, 4, 349-357.	14.6	174
120	Microcantilever-based platforms as biosensing tools. Analyst, The, 2010, 135, 827.	3.5	157
121	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
122	Plasmon-Induced Magneto-Optical Activity in Nanosized Gold Disks. Physical Review Letters, 2010, 104, 147401.	7.8	148
123	Au/Fe/Au multilayer transducers for magneto-optic surface plasmon resonance sensing. Journal of Applied Physics, 2010, 108, .	2.5	96
124	Influence of the linker type on the Au–S binding properties of thiol and disulfide-modified DNA self-assembly on polycrystalline gold. Physical Chemistry Chemical Physics, 2010, 12, 3301.	2.8	11
125	Plasma-activated multi-walled carbon nanotube–polystyrene composite substrates for biosensing. Nanotechnology, 2009, 20, 335501.	2.6	36
126	Surface plasmon resonance biosensors for highly sensitive detection in real samples. , 2009, , .		12

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127	Biosensing microsystem platforms based on the integration of Si Mach-Zehnder interferometer, microfluidics and grating couplers. , 2009, , .		11
128	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
129	LSPR-based nanobiosensors. Nano Today, 2009, 4, 244-251.	11.9	882
130	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. Carbon, 2009, 47, 758-763.	10.3	10
131	Single- and multi-analyte determination of gonadotropic hormones in urine by Surface Plasmon Resonance immunoassay. Analytica Chimica Acta, 2009, 647, 202-209.	5.4	23
132	Surface plasmon resonance immunoassay analysis of pituitary hormones in urine and serum samples. Clinica Chimica Acta, 2009, 403, 56-62.	1.1	59
133	Determination of human growth hormone in human serum samples by surface plasmon resonance immunoassay. Talanta, 2009, 78, 1011-1016.	5.5	61
134	Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. Optics Express, 2009, 17, 2015.	3.4	72
135	Biosensors Based on Cantilevers. Methods in Molecular Biology, 2009, 504, 51-71.	0.9	9
136	Labelâ€Free Pathogen Detection with Sensor Chips Assembled from Peptide Nanotubes. Angewandte Chemie - International Edition, 2008, 47, 9752-9755.	13.8	78
137	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
138	CANTILEVER BIOSENSORS. , 2008, , 419-452.		9
139	Scalable fabrication of immunosensors based on carbon nanotube polymer composites. Nanotechnology, 2008, 19, 075102.	2.6	37
140	Optical waveguide cantilever actuated by light. Applied Physics Letters, 2008, 92, .	3.3	14
141	Silicon Photonic Biosensors for Lab-on-a-Chip Applications. Advances in Optical Technologies, 2008, 2008, 1-6.	0.8	80
142	Biosensor Devices. AIP Conference Proceedings, 2007, , .	0.4	0
143	Optical biosensor based on arrays of waveguide microcantilevers. , 2007, , .		2
144	Lab-on-a-chip platforms based on highly sensitive nanophotonic Si biosensors for single nucleotide DNA testing. , 2007, , .		6

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145	Pulsed electroluminescence in silicon nanocrystals-based devices fabricated by PECVD. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 193-196.	2.7	20
146	Magneto-optical phase modulation in integrated Mach–Zehnder interferometric sensors. Sensors and Actuators A: Physical, 2007, 134, 339-347.	4.1	27
147	Multi-analyte SPR immunoassays for environmental biosensing of pesticides. Analytical and Bioanalytical Chemistry, 2007, 387, 1449-1458.	3.7	102
148	On-line determination of 3,5,6-trichloro-2-pyridinol in human urine samples by surface plasmon resonance immunosensing. Analytical and Bioanalytical Chemistry, 2007, 387, 2757-2765.	3.7	24
149	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
150	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
151	Microfluidic-optical integrated CMOS compatible devices for label-free biochemical sensing. Journal of Micromechanics and Microengineering, 2006, 16, 1006-1016.	2.6	74
152	Optical biosensor microsystems based on the integration of highly sensitive Mach–Zehnder interferometer devices. Journal of Optics, 2006, 8, S561-S566.	1.5	154
153	Highly sensitive detection of biomolecules with the magneto-optic surface-plasmon-resonance sensor. Optics Letters, 2006, 31, 1085.	3.3	248
154	Light coupling into an optical microcantilever by an embedded diffraction grating. Applied Optics, 2006, 45, 229.	2.1	13
155	Magnetooptic effects in surface-plasmon-polaritons slab waveguides. Journal of Lightwave Technology, 2006, 24, 945-955.	4.6	108
156	A novel optical waveguide microcantilever sensor for the detection of nanomechanical forces. Journal of Lightwave Technology, 2006, 24, 2132-2138.	4.6	90
157	Determination of environmental organic pollutants with a portable optical immunosensor. Talanta, 2006, 69, 359-364.	5.5	113
158	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
159	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
160	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. Sensors and Actuators B: Chemical, 2006, 118, 2-10.	7.8	68
161	Nanomechanical biosensors: a new sensing tool. TrAC - Trends in Analytical Chemistry, 2006, 25, 196-206.	11.4	248
162	Micro- and nanoimmunosensors: technology and applications. Analytical and Bioanalytical Chemistry, 2006, 384, 44-46.	3.7	11

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163	Single and multi-analyte surface plasmon resonance assays for simultaneous detection of cholinesterase inhibiting pesticides. Sensors and Actuators B: Chemical, 2006, 118, 399-407.	7.8	58
164	Butt coupled microcantilever in sensing applications. , 2006, 6186, 55.		1
165	T-shaped microcantilever sensor with reduced deflection offset. Applied Physics Letters, 2006, 89, 094109.	3.3	16
166	Dimension dependence of the thermomechanical noise of microcantilevers. Journal of Applied Physics, 2006, 99, 024910.	2.5	24
167	Photonic Micro/Nanobiosensors for Early Diagnosis of Diseases. , 2006, , .		0
168	3-D polymeric microfluidic devices for BioMOEMS applications. , 2005, 5839, 127.		2
169	Highly sensitive polymer-based cantilever-sensors for DNA detection. Ultramicroscopy, 2005, 105, 215-222.	1.9	153
170	Chapter 5 Optical biosensors. Comprehensive Analytical Chemistry, 2005, , 209-250.	1.3	43
171	Technological Platforms Based on Micro/Nanobiosensors as Early Warning Systems for Biological Warfare. , 2005, , 175-197.		1
172	Integrated micro- and nano-optical biosensor silicon devices CMOS compatible. , 2004, 5357, 96.		7
173	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
174	Nanomechanics of the Formation of DNA Self-Assembled Monolayers and Hybridization on Microcantilevers. Langmuir, 2004, 20, 9663-9668.	3.5	97
175	Matrix Analysis of Discontinuities in Nonreciprocal Waveguides: Analytical Description for Magnetooptical Slab Waveguides. Journal of Lightwave Technology, 2004, 22, 1772-1781.	4.6	7
176	Development of nanomechanical biosensors for detection of the pesticide DDT. Biosensors and Bioelectronics, 2003, 18, 649-653.	10.1	155
177	Digital tuning of the quality factor of micromechanical resonant biological detectors. Sensors and Actuators B: Chemical, 2003, 89, 33-39.	7.8	23
178	Integrated Mach–Zehnder interferometer based on ARROW structures for biosensor applications. Sensors and Actuators B: Chemical, 2003, 92, 151-158.	7.8	109
179	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. Nanotechnology, 2003, 14, 907-912.	2.6	279
180	Decrease of the resonance bandwidth of micromechanical oscillators by phase control of the driving force. Applied Physics Letters, 2003, 82, 2919-2921.	3.3	12

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181	Chapter 13 Integrated optical transducers for (bio)chemical sensing. Comprehensive Analytical Chemistry, 2003, , 541-586.	1.3	1
182	Integrated optical silicon IC compatible nanodevices for biosensing applications. , 2003, , .		5
183	Nanomechanics for specific biological detection. , 2003, 5118, 197.		3
184	Polymeric Cantilever Arrays for Biosensing Applications. Sensor Letters, 2003, 1, 20-24.	0.4	68
185	Optimized silicon antiresonant reflecting optical waveguides for sensing applications. Journal of Lightwave Technology, 2001, 19, 75-83.	4.6	37
186	Design and analysis of silicon antiresonant reflecting optical waveguides for evanescent field sensor. Journal of Lightwave Technology, 2000, 18, 966-972.	4.6	62
187	The realization of an integrated Mach-Zehnder waveguide immunosensor in silicon technology. Sensors and Actuators B: Chemical, 1997, 40, 147-153.	7.8	110
188	Feasibility of evanescent wave interferometer immunosensors for pesticide detection: chemical aspects. Sensors and Actuators B: Chemical, 1995, 25, 762-765.	7.8	31
189	Urea biosensor based on ammonia gas-sensitive Pt/GaAs Schottky diode. Sensors and Actuators B: Chemical, 1994, 21, 205-208.	7.8	6
190	Use of the electroreflectance technique in Pt/GaAs Schottky barrier sensor characterization. Sensors and Actuators A: Physical, 1992, 32, 354-356.	4.1	2
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