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List of Publications by Year in descending order

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98 papers 1,731 citations

279487 23 h-index 36 g-index

98 all docs 98 docs citations 98 times ranked 2108 citing authors

#	Article	IF	Citations
1	Photopatternable materials for guided cell adhesion and growth. European Polymer Journal, 2022, 162, 110896.	2.6	8
2	Simultaneous Detection of Salmonella typhimurium and Escherichia coli O157:H7 in Drinking Water with Mach–Zehnder Interferometers Monolithically Integrated on Silicon Chips. , 2022, 16, .		1
3	Monolithically Integrated Label-Free Optical Immunosensors. , 2022, 16, .		O
4	Fast and Accurate Determination of Minute Ochratoxin A Levels in Cereal Flours: Towards Application at the Field., 2022, 16,.		0
5	A perspective on ToF-SIMS analysis of biosensor interfaces: Controlling and optimizing multi-molecular composition, immobilization through bioprinting, molecular orientation. Applied Surface Science, 2022, 594, 153439.	3.1	3
6	Comparison of Physical Adsorption and Covalent Coupling Methods for Surface Density-Dependent Orientation of Antibody on Silicon. Molecules, 2022, 27, 3672.	1.7	6
7	Simultaneous Detection of Salmonella typhimurium and Escherichia coli O157:H7 in Drinking Water and Milk with Mach–Zehnder Interferometers Monolithically Integrated on Silicon Chips. Biosensors, 2022, 12, 507.	2.3	11
8	Directly immersible silicon photonic probes: Application to rapid SARS-CoV-2 serological testing. Biosensors and Bioelectronics, 2022, 215, 114570.	5.3	8
9	Rapid Detection of Salmonella typhimurium in Drinking Water by a White Light Reflectance Spectroscopy Immunosensor. Sensors, 2021, 21, 2683.	2.1	18
10	Fast and Sensitive Determination of the Fungicide Carbendazim in Fruit Juices with an Immunosensor Based on White Light Reflectance Spectroscopy. Biosensors, 2021, 11, 153.	2.3	7
11	3D printed microcell featuring a disposable nanocomposite Sb/Sn immunosensor for quantum dot-based electrochemical determination of adulteration of ewe/goat's cheese with cow's milk. Sensors and Actuators B: Chemical, 2021, 334, 129614.	4.0	14
12	Current Progress on Biosensors and Point-of-Care Devices for Sepsis Diagnosis. IEEE Sensors Journal, 2021, 21, 12840-12855.	2.4	6
13	Development of a Point-of-Care System Based on White Light Reflectance Spectroscopy: Application in CRP Determination. Biosensors, 2021, 11, 268.	2.3	9
14	Rapid detection of mozzarella and feta cheese adulteration with cow milk through a silicon photonic immunosensor. Analyst, The, 2021, 146, 529-537.	1.7	17
15	Spatially selective biomolecules immobilization on silicon nitride waveguides through contact printing onto plasma treated photolithographic micropattern: Step-by-step analysis with TOF-SIMS chemical imaging. Applied Surface Science, 2020, 506, 145002.	3.1	4
16	Three-dimensional (3D) hierarchical oxygen plasma micro/nanostructured polymeric substrates for selective enrichment of cancer cells from mixtures with normal ones. Colloids and Surfaces B: Biointerfaces, 2020, 187, 110675.	2.5	6
17	Oxygen plasma micro-nanostructured PMMA plates and microfluidics for increased adhesion and proliferation of cancer versus normal cells: The role of surface roughness and disorder. Micro and Nano Engineering, 2020, 8, 100060.	1.4	3
18	Fast Deoxynivalenol Determination in Cereals Using a White Light Reflectance Spectroscopy Immunosensor. Biosensors, 2020, 10, 154.	2.3	5

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19	Poly-L-histidine coated microfluidic devices for bacterial DNA purification without chaotropic solutions. Biomedical Microdevices, 2020, 22, 44.	1.4	6
20	Reacquisition of a spindle cell shape does not lead to the restoration of a youthful state in senescent human skin fibroblasts. Biogerontology, 2020, 21, 695-708.	2.0	3
21	Functionalization of silicon dioxide and silicon nitride surfaces with aminosilanes for optical biosensing applications. Medical Devices & Sensors, 2020, 3, e10072.	2.7	17
22	Fast, sensitive and selective determination of herbicide glyphosate in water samples with a White Light Reflectance Spectroscopy immunosensor. Talanta, 2020, 214, 120854.	2.9	24
23	Multiplexed mycotoxins determination employing white light reflectance spectroscopy and silicon chips with silicon oxide areas of different thickness. Biosensors and Bioelectronics, 2020, 153, 112035.	5.3	21
24	Surface density dependent orientation and immunological recognition of antibody on silicon: TOF-SIMS and surface analysis of two covalent immobilization methods. Applied Surface Science, 2020, 518, 146269.	3.1	38
25	Orientation of Biotin-Binding Sites in Streptavidin Adsorbed onto the Surface of Polythiophene Films. Langmuir, 2019, 35, 3058-3066.	1.6	9
26	Bio-orthogonal fluorinated resist for biomolecules patterning applications. Colloids and Surfaces B: Biointerfaces, 2019, 178, 208-213.	2.5	4
27	Rapid and sensitive label-free determination of aflatoxin M1 levels in milk through a White Light Reflectance Spectroscopy immunosensor. Sensors and Actuators B: Chemical, 2019, 282, 104-111.	4.0	21
28	Guided cell adhesion, orientation, morphology and differentiation on silicon substrates photolithographically micropatterned with a cell-repellent cross-linked poly(vinyl alcohol) film. Biomedical Materials (Bristol), 2019, 14, 014101.	1.7	11
29	Three-dimensional (3D) plasma micro-nanotextured slides for high performance biomolecule microarrays: Comparison with epoxy-silane coated glass slides. Colloids and Surfaces B: Biointerfaces, 2018, 165, 270-277.	2.5	13
30	3D Plasma Nanotextured® Polymeric Surfaces for Protein or Antibody Arrays, and Biomolecule and Cell Patterning. Methods in Molecular Biology, 2018, 1771, 27-40.	0.4	2
31	Paper-Based Microfluidic Device with Integrated Sputtered Electrodes for Stripping Voltammetric Determination of DNA via Quantum Dot Labeling. Analytical Chemistry, 2018, 90, 1092-1097.	3.2	49
32	Rapid C-reactive protein determination in whole blood with a White Light Reflectance Spectroscopy label-free immunosensor for Point-of-Care applications. Sensors and Actuators B: Chemical, 2018, 260, 282-288.	4.0	17
33	Protein adsorption/desorption and antibody binding stoichiometry on silicon interferometric biosensors examined with TOF-SIMS. Applied Surface Science, 2018, 444, 187-196.	3.1	10
34	Label-Free Biosensors Based onto Monolithically Integrated onto Silicon Optical Transducers. Chemosensors, 2018, 6, 52.	1.8	8
35	Interferometry-Based Immunoassays. , 2018, , 241-271.		0
36	Simultaneous determination of aflatoxin B1, fumonisin B1 and deoxynivalenol in beer samples with a label-free monolithically integrated optoelectronic biosensor. Journal of Hazardous Materials, 2018, 359, 445-453.	6.5	41

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37	Simultaneous determination of paraquat and atrazine in water samples with a white light reflectance spectroscopy biosensor. Journal of Hazardous Materials, 2018, 359, 67-75.	6.5	31
38	Ultrafast Multiplexed-Allergen Detection through Advanced Fluidic Design and Monolithic Interferometric Silicon Chips. Analytical Chemistry, 2018, 90, 9559-9567.	3.2	35
39	Detection of ochratoxin A in beer samples with a label-free monolithically integrated optoelectronic biosensor. Journal of Hazardous Materials, 2017, 323, 75-83.	6.5	41
40	Fast label-free detection of C-reactive protein using broad-band Mach-Zehnder interferometers integrated on silicon chips. Talanta, 2017, 165, 458-465.	2.9	24
41	Contact pin-printing of albumin-fungicide conjugate for silicon nitride-based sensors biofunctionalization: Multi-technique surface analysis for optimum immunoassay performance. Applied Surface Science, 2017, 410, 79-86.	3.1	9
42	White light reflectance spectroscopy biosensing system for fast quantitative prostate specific antigen determination in forensic samples. Talanta, 2017, 175, 443-450.	2.9	10
43	Indirect immunoassay on functionalized silicon surface: Molecular arrangement, composition and orientation examined step-by-step with multi-technique and multivariate analysis. Colloids and Surfaces B: Biointerfaces, 2017, 150, 437-444.	2.5	13
44	Fast simultaneous detection of three pesticides by a White Light Reflectance Spectroscopy sensing platform. Sensors and Actuators B: Chemical, 2017, 238, 1214-1223.	4.0	30
45	Development and Bioanalytical Applications of a White Light Reflectance Spectroscopy Label-Free Sensing Platform. Biosensors, 2017, 7, 46.	2.3	17
46	Broadband Young interferometry for simultaneous dual polarization bioanalytics. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1691.	0.9	5
47	Imaging and chemical surface analysis of biomolecular functionalization of monolithically integrated on silicon Mach-Zehnder interferometric immunosensors. Applied Surface Science, 2016, 385, 529-542.	3.1	18
48	Orientation and biorecognition of immunoglobulin adsorbed on spin-cast poly(3-alkylthiophenes): Impact of polymer film crystallinity. Colloids and Surfaces B: Biointerfaces, 2016, 148, 278-286.	2.5	15
49	Monolithically-integrated Young interferometers for label-free and multiplexed detection of biomolecules. Proceedings of SPIE, 2016, , .	0.8	5
50	Lab-on-a-Membrane Foldable Devices for Duplex Drop-Volume Electrochemical Biosensing Using Quantum Dot Tags. Analytical Chemistry, 2016, 88, 6897-6904.	3.2	55
51	Three-dimensional plasma micro–nanotextured cyclo-olefin-polymer surfaces for biomolecule immobilization and environmentally stable superhydrophobic and superoleophobic behavior. Chemical Engineering Journal, 2016, 300, 394-403.	6.6	56
52	Simultaneous determination of CRP and D-dimer in human blood plasma samples with White Light Reflectance Spectroscopy. Biosensors and Bioelectronics, 2016, 84, 89-96.	5.3	37
53	A miniaturized optoelectronic system for rapid quantitative label-free detection of harmful species in food. Proceedings of SPIE, 2016, , .	0.8	0
54	Selective aggregation of PAMAM dendrimer nanocarriers and PAMAM/ZnPc nanodrugs on human atheromatous carotid tissues: a photodynamic therapy for atherosclerosis. Nanoscale Research Letters, 2015, 10, 210.	3.1	42

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55	Flexible Microfabricated Film Sensors for the in Situ Quantum Dot-Based Voltammetric Detection of DNA Hybridization in Microwells. Analytical Chemistry, 2015, 87, 853-857.	3.2	21
56	Imaging and spectroscopic comparison of multi-step methods to form DNA arrays based on the biotin–streptavidin system. Analyst, The, 2015, 140, 1127-1139.	1.7	15
57	Disposable integrated bismuth citrate-modified screen-printed immunosensor for ultrasensitive quantum dot-based electrochemical assay of C-reactive protein in human serum. Analytica Chimica Acta, 2015, 886, 29-36.	2.6	66
58	Assessment of goat milk adulteration with a label-free monolithically integrated optoelectronic biosensor. Analytical and Bioanalytical Chemistry, 2015, 407, 3995-4004.	1.9	42
59	A label-free flow-through immunosensor for determination of total- and free-PSA in human serum samples based on white-light reflectance spectroscopy. Sensors and Actuators B: Chemical, 2015, 209, 1041-1048.	4.0	21
60	Quantum dot-based electrochemical DNA biosensor using a screen-printed graphite surface with embedded bismuth precursor. Electrochemistry Communications, 2015, 60, 47-51.	2.3	38
61	Development of an indirect enzyme immunoassay for the determination of thiabendazole in white and red wines. International Journal of Environmental Analytical Chemistry, 2015, 95, 1299-1309.	1.8	15
62	Nanothermodynamics Mediates Drug Delivery. Advances in Experimental Medicine and Biology, 2015, 822, 213-220.	0.8	7
63	Commercially available chemicals as immunizing haptens for the development of a polyclonal antibody recognizing carbendazim and other benzimidazole-type fungicides. Chemosphere, 2015, 119, S16-S20.	4.2	21
64	Real-time multi-analyte label-free detection of proteins by white light reflectance spectroscopy. , 2014, , .		1
65	Monolithic optoelectronic chip for label-free multi-analyte sensing applications. , 2014, , .		1
66	Immobilization of oligonucleotide probes on silicon surfaces using biotin–streptavidin system examined with microscopic and spectroscopic techniques. Applied Surface Science, 2014, 290, 199-206.	3.1	9
67	Protein-Resistant Cross-Linked Poly(vinyl alcohol) Micropatterns via Photolithography Using Removable Polyoxometalate Photocatalyst. ACS Applied Materials & Samp; Interfaces, 2014, 6, 17463-17473.	4.0	14
68	Cell array fabrication by plasma nanotexturing. , 2013, , .		4
69	Orthogonal Patterning of Multiple Biomolecules Using an Organic Fluorinated Resist and Imprint Lithography. Biomacromolecules, 2013, 14, 993-1002.	2.6	16
70	Microfabricated Tinâ€"Film Electrodes for Protein and DNA Sensing Based on Stripping Voltammetric Detection of Cd(II) Released from Quantum Dots Labels. Analytical Chemistry, 2013, 85, 10686-10691.	3.2	44
71	Visualization of the membrane engineering concept: evidence for the specific orientation of electroinserted antibodies and selective binding of target analytes. Journal of Molecular Recognition, 2013, 26, 627-632.	1.1	18
72	Controlled protein adsorption on microfluidic channels with engineered roughness and wettability. Sensors and Actuators B: Chemical, 2012, 161, 216-222.	4.0	58

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73	Monolithically integrated Mach-Zehnder biosensors for real-time label-free monitoring of biomolecular reactions., 2011, 2011, 7654-7.		2
74	Protein arrays on high-surface-area plasma-nanotextured poly(dimethylsiloxane)-coated glass slides. Colloids and Surfaces B: Biointerfaces, 2011, 83, 270-276.	2.5	16
75	Protein immobilization and detection on laser processed polystyrene surfaces. Journal of Applied Physics, $2011, 110, \ldots$	1.1	7
76	Dual-cardiac marker capillary waveguide fluoroimmunosensor based on tyramide signal amplification. Analytical and Bioanalytical Chemistry, 2010, 396, 1187-1196.	1.9	22
77	A regenerable flow-through affinity sensor for label-free detection of proteins and DNA. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 237-242.	1.2	6
78	Electrochemical biosensor microarray functionalized by means of biomolecule friendly photolithography. Biosensors and Bioelectronics, 2010, 25, 2115-2121.	5. 3	26
79	Fully integrated monolithic optoelectronic transducer for real-time protein and DNA detection: The NEMOSLAB approach. Biosensors and Bioelectronics, 2010, 26, 1528-1535.	5.3	24
80	Monolithically integrated biosensors based on Frequency-Resolved Mach-Zehnder Interferometers for multi-analyte determinations., 2010, 2010, 298-301.		2
81	A flow-through optical sensor system for label-free detection of proteins and DNA. , 2009, , .		1
82	Real-time detection of BRCA1 gene mutations using a monolithic silicon optocoupler array. Biosensors and Bioelectronics, 2009, 24, 1341-1347.	5. 3	28
83	Bulk fluorescence light blockers to improve homogeneous detection in capillary-waveguide fluoroimmunosensors. Biosensors and Bioelectronics, 2009, 24, 2735-2739.	5. 3	5
84	Capillary waveguide fluoroimmunosensor with improved repeatability and detection sensitivity. Analytical and Bioanalytical Chemistry, 2009, 393, 1081-1086.	1.9	8
85	Photopatterned PLED arrays for biosensing applications. Microelectronic Engineering, 2009, 86, 1511-1514.	1.1	5
86	Ultra-thin poly(dimethylsiloxane) film-coated glass capillaries for fluoroimmunosensing applications. Microelectronic Engineering, 2009, 86, 1491-1494.	1.1	3
87	High-density protein patterning through selective plasma-induced fluorocarbon deposition on Si substrates. Biosensors and Bioelectronics, 2009, 24, 2979-2984.	5.3	19
88	Real-time label-free detection of complement activation products in human serum by white light reflectance spectroscopy. Biosensors and Bioelectronics, 2009, 24, 3359-3364.	5.3	17
89	Glycerin Suppression of Fluorescence Self-Quenching and Improvement of Heterogeneous Fluoroimmunoassay Sensitivity. Analytical Chemistry, 2007, 79, 647-653.	3.2	11
90	A biomolecule friendly photolithographic process for fabrication of protein microarrays on polymeric films coated on silicon chips. Biosensors and Bioelectronics, 2007, 22, 1994-2002.	5.3	56

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91	Photolithographic Process Based on High Contrast Acrylate Photoresist for Multi-Protein Patterning. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
92	157-nm Laser ablation of polymeric layers for fabrication of biomolecule microarrays. Analytical and Bioanalytical Chemistry, 2005, 381, 1027-1032.	1.9	20
93	A Monolithic Silicon Optoelectronic Transducer as a Real-Time Affinity Biosensor. Analytical Chemistry, 2004, 76, 1366-1373.	3.2	92
94	Increased sensitivity of heterogeneous fluoroimmunoassays employing fluorescein-labeled antibodies by simple treatment of the wells with glycerin solution. Journal of Immunological Methods, 2002, 266, 175-179.	0.6	12
95	Biocompatible photolithographic process for the patterning of biomolecules. Biosensors and Bioelectronics, 2002, 17, 269-278.	5.3	52
96	IMPROVED ANTIBODY COATING PROTOCOL USING A SECOND ANTIBODY ANTISERUM. APPLICATION TO TOTAL THYROXIN IMMUNOASSAY. Journal of Immunoassay and Immunochemistry, 2001, 22, 235-251.	0.5	2
97	Heterogeneous fluoroimmunoassays using fluorescein as label with measurement of the fluorescence signal directly onto the solid-phase. Journal of Immunological Methods, 1999, 222, 183-187.	0.6	10
98	Antibody Coating Approach Involving Gamma Globulins from Non-immunized Animal and Second Antibody Antiserum. Journal of Immunoassay, 1998, 19, 271-293.	0.3	11