Frances S Ligler

List of Publications by Year in Descending Order

199 papers	11,240 citations	62 h-index	99 g-index
211 ext. papers	12,372 ext. citations	7.9 avg, IF	6.28 L-index

#	Paper	IF	Citations
199	Bioinstructive implantable scaffolds for rapid in vivo manufacture and release of CAR-T cells.. *Nature Biotechnology*, **2022**,	44.5	3
198	Fibrin gel enhances the antitumor effects of chimeric antigen receptor T cells in glioblastoma. *Science Advances*, **2021**, 7, eabg5841	14.3	9
197	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. *ACS Sensors*, **2021**, 6, 985-994	9.2	1
196	Review of analytical performance of COVID-19 detection methods. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 35-48	4.4	73
195	Synthesis of sonicated fibrin nanoparticles that modulate fibrin clot polymerization and enhance angiogenic responses. *Colloids and Surfaces B: Biointerfaces*, **2021**, 204, 111805	6	
194	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation.. *Bioelectricity*, **2021**, 3, 255-271	2	3
193	Scaffold-Mediated Static Transduction of T Cells for CAR-T Cell Therapy. *Advanced Healthcare Materials*, **2020**, 9, e2000275	10.1	7
192	High-Throughput Manufacture of 3D Fiber Scaffolds for Regenerative Medicine. *Tissue Engineering - Part C: Methods*, **2020**, 26, 364-374	2.9	7
191	Microfluidics for the study of mechanotransduction. *Journal Physics D: Applied Physics*, **2020**, 53,	3	11
190	Three-dimensional imaging of intact porcine cochlea using tissue clearing and custom-built light-sheet microscopy. *Biomedical Optics Express*, **2020**, 11, 6181-6196	3.5	5
189	Cardiac Stromal Cell Patch Integrated with Engineered Microvessels Improves Recovery from Myocardial Infarction in Rats and Pigs. *ACS Biomaterials Science and Engineering*, **2020**, 6, 6309-6320	5.5	16
188	Lighting Up Biosensors: Now and the Decade To Come. *Analytical Chemistry*, **2019**, 91, 8732-8738	7.8	26
187	Photothermal Therapy: Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells (Adv. Mater. 23/2019). *Advanced Materials*, **2019**, 31, 1970166	24	13
186	Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells. *Advanced Materials*, **2019**, 31, e1900192	24	178
185	Characterization of glass frit capillary pumps for microfluidic devices. *Microfluidics and Nanofluidics*, **2019**, 23, 1	2.8	3
184	A simple cantilever system for measurement of flow rates in paper microfluidic devices. *Engineering Research Express*, **2019**, 1, 025019	0.9	1
183	Paper-based passive pumps to generate controllable whole blood flow through microfluidic devices. *Lab on A Chip*, **2019**, 19, 3787-3795	7.2	9

182	Fibrin Nanoparticles Coupled with Keratinocyte Growth Factor Enhance the Dermal Wound-Healing Rate. *ACS Applied Materials & Interfaces*, **2019**, 11, 3771-3780	9.5	17
181	Platelet-Inspired Nanocells for Targeted Heart Repair After Ischemia/Reperfusion Injury. *Advanced Functional Materials*, **2019**, 29, 1803567	15.6	58
180	Synthetic beta cells for fusion-mediated dynamic insulin secretion. *Nature Chemical Biology*, **2018**, 14, 86-93	11.7	110
179	Strategies to Close the Gender Gap in Invention and Technology Commercialization. *Technology and Innovation*, **2018**, 19, 701-706	0.7	2
178	The NAI Fellow Profile: An Interview With Dr. Frances Ligler. *Technology and Innovation*, **2018**, 19, 645-651	0.7	
177	Cardiac Stem Cell Patch Integrated with Microengineered Blood Vessels Promotes Cardiomyocyte Proliferation and Neovascularization after Acute Myocardial Infarction. *ACS Applied Materials & Interfaces*, **2018**, 10, 33088-33096	9.5	48
176	Hypoxia and HO Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. *Nano Letters*, **2017**, 17, 733-739	11.5	172
175	Dual Wavelength-Triggered Gold Nanorods for Anticancer Treatment. *Methods in Molecular Biology*, **2017**, 1570, 195-208	1.4	1
174	Modular pumps as programmable hydraulic batteries for microfluidic devices **2017**, 05, 21-30		17
173	Microfabricated blood vessels undergo neoangiogenesis. *Biomaterials*, **2017**, 138, 142-152	15.6	33
172	Time-Dependent Model for Fluid Flow in Porous Materials with Multiple Pore Sizes. *Analytical Chemistry*, **2017**, 89, 4377-4381	7.8	48
171	Leveraging H O Levels for Biomedical Applications. *Advanced Biology*, **2017**, 1, e1700084	3.5	48
170	"Data characterizing microfabricated human blood vessels created via hydrodynamic focusing". *Data in Brief*, **2017**, 14, 156-162	1.2	3
169	Evanescent wave fluorescence biosensors: Advances of the last decade. *Biosensors and Bioelectronics*, **2016**, 76, 103-12	11.8	80
168	Mechanical and Vascular Cues Synergistically Enhance Osteogenesis in Human Mesenchymal Stem Cells. *Tissue Engineering - Part A*, **2016**, 22, 997-1005	3.9	6
167	Signal amplification strategies for microfluidic immunoassays. *TrAC - Trends in Analytical Chemistry*, **2016**, 79, 326-334	14.6	33
166	Point-of-care diagnostics for niche applications. *Biotechnology Advances*, **2016**, 34, 161-76	17.8	37
165	Nanosecond Time-Resolution Study of Gold Nanorod Rotation at the Liquid-Solid Interface. *ChemPhysChem*, **2016**, 17, 2218-24	3.2	5

164	Microvessel manifold for perfusion and media exchange in three-dimensional cell cultures. *Biomicrofluidics*, **2016**, 10, 054109	3.2	11
163	Microneedle-array patches loaded with hypoxia-sensitive vesicles provide fast glucose-responsive insulin delivery. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8260-5	11.5	509
162	A dual wavelength-activatable gold nanorod complex for synergistic cancer treatment. *Nanoscale*, **2015**, 7, 12096-103	7.7	36
161	A temperature microsensor for measuring laser-induced heating in gold nanorods. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 719-25	4.4	13
160	3D hydrodynamic focusing microfluidics for emerging sensing technologies. *Biosensors and Bioelectronics*, **2015**, 67, 25-34	11.8	44
159	Microfluidic strategies for design and assembly of microfibers and nanofibers with tissue engineering and regenerative medicine applications. *Advanced Healthcare Materials*, **2015**, 4, 11-28	10.1	112
158	Continuous-Wave Stimulated Emission Depletion Microscope for Imaging Actin Cytoskeleton in Fixed and Live Cells. *Sensors*, **2015**, 15, 24178-90	3.8	9
157	Transformable liquid-metal nanomedicine. *Nature Communications*, **2015**, 6, 10066	17.4	320
156	Programmable nanomedicine: synergistic and sequential drug delivery systems. *Nanoscale*, **2015**, 7, 3381-91	7.7	109
155	Microfluidics: Microfluidic Strategies for Design and Assembly of Microfibers and Nanofibers with Tissue Engineering and Regenerative Medicine Applications (Adv. Healthcare Mater. 1/2015). *Advanced Healthcare Materials*, **2015**, 4, 2-2	10.1	4
154	Small-molecule detection in thiol-yne nanocomposites via surface-enhanced Raman spectroscopy. *Analytical Chemistry*, **2014**, 86, 12315-20	7.8	10
153	Self-folded redox/acid dual-responsive nanocarriers for anticancer drug delivery. *Chemical Communications*, **2014**, 50, 15105-8	5.8	23
152	Facile Fabrication of Color Tunable Film and Fiber Nanocomposites via Thiol Click Chemistry. *Macromolecules*, **2014**, 47, 695-704	5.5	21
151	Microfluidic fabrication of multiaxial microvessels via hydrodynamic shaping. *RSC Advances*, **2014**, 4, 23440-23446	3.7	25
150	Microfluidic fabrication of polymeric and biohybrid fibers with predesigned size and shape. *Journal of Visualized Experiments*, **2014**, e50958	1.6	8
149	Review of recent developments in stimulated emission depletion microscopy: applications on cell imaging. *Journal of Biomedical Optics*, **2014**, 19, 080901	3.5	19
148	Interpenetrating networks based on gelatin methacrylamide and PEG formed using concurrent thiol click chemistries for hydrogel tissue engineering scaffolds. *Biomaterials*, **2014**, 35, 1845-56	15.6	168
147	Simultaneous assay for ten bacteria and toxins in spiked clinical samples using a microflow cytometer. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 5611-4	4.4	15

146	Design and fabrication of uniquely shaped thiol-ene microfibers using a two-stage hydrodynamic focusing design. *Lab on A Chip*, **2013**, 13, 3105-10	7.2	41
145	Hydrodynamic shaping, polymerization, and subsequent modification of thiol click fibers. *ACS Applied Materials & Interfaces*, **2013**, 5, 114-9	9.5	34
144	Catch and release: integrated system for multiplexed detection of bacteria. *Analytical Chemistry*, **2013**, 85, 4944-50	7.8	33
143	Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers. *Advanced Functional Materials*, **2013**, 23, 698-704	15.6	46
142	Microfabrication: Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers (Adv. Funct. Mater. 6/2013). *Advanced Functional Materials*, **2013**, 23, 697-697	15.6	1
141	Hydrodynamic focusing for impedance-based detection of specifically bound microparticles and cells: Implications of fluid dynamics on tunable sensitivity. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 386-393	8.5	11
140	Hydrodynamic focusing--a versatile tool. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 325-35	4.4	40
139	Hydrodynamically directed multiscale assembly of shaped polymer fibers. *Soft Matter*, **2012**, 8, 6656	3.6	22
138	Spinning magnetic trap for automated microfluidic assay systems. *Lab on A Chip*, **2012**, 12, 1793-9	7.2	34
137	In situ phytoplankton analysis: there's plenty of room at the bottom. *Analytical Chemistry*, **2012**, 84, 839-58	7.8	32
136	Rapid analytical methods for on-site triage for traumatic brain injury. *Annual Review of Analytical Chemistry*, **2012**, 5, 35-56	12.5	22
135	Iron chelation by cranberry juice and its impact on Escherichia coli growth. *BioFactors*, **2011**, 37, 121-30	6.1	18
134	Parameters affecting the shape of a hydrodynamically focused stream. *Microfluidics and Nanofluidics*, **2011**, 11, 119-128	2.8	16
133	Hydrodynamic and electrical considerations in the design of a four-electrode impedance-based microfluidic device. *Analytical and Bioanalytical Chemistry*, **2011**, 400, 1347-58	4.4	10
132	UV polymerization of hydrodynamically shaped fibers. *Lab on A Chip*, **2011**, 11, 1157-60	7.2	38
131	Microflow Cytometer for optical analysis of phytoplankton. *Biosensors and Bioelectronics*, **2011**, 26, 4263-9	12.8	55
130	Optimization of antibody-conjugated magnetic nanoparticles for target preconcentration and immunoassays. *Analytical Biochemistry*, **2011**, 410, 124-32	3.1	42
129	Optofluidic characterization of marine algae using a microflow cytometer. *Biomicrofluidics*, **2011**, 5, 32009-320099	3.2	69

128	Effect of diffusion on impedance measurements in a hydrodynamic flow focusing sensor. *Lab on A Chip*, **2010**, 10, 2787-95	7.2	12
127	Dynamic reversibility of hydrodynamic focusing for recycling sheath fluid. *Lab on A Chip*, **2010**, 10, 1952-9	7.2	25
126	Utilization of microparticles in next-generation assays for microflow cytometers. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 2373-82	4.4	22
125	A hard microflow cytometer using groove-generated sheath flow for multiplexed bead and cell assays. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 1871-81	4.4	24
124	Multiplexed magnetic microsphere immunoassays for detection of pathogens in foods. *Sensing and Instrumentation for Food Quality and Safety*, **2010**, 4, 73-81		43
123	Hydrodynamic focusing of conducting fluids for conductivity-based biosensors. *Biosensors and Bioelectronics*, **2010**, 25, 1363-9	11.8	22
122	Organic photodiodes for biosensor miniaturization. *Analytical Chemistry*, **2009**, 81, 3455-61	7.8	62
121	Multiplexed detection of bacteria and toxins using a microflow cytometer. *Analytical Chemistry*, **2009**, 81, 5426-32	7.8	93
120	A simple sheath-flow microfluidic device for micro/nanomanufacturing: fabrication of hydrodynamically shaped polymer fibers. *Lab on A Chip*, **2009**, 9, 3126-30	7.2	72
119	Multi-wavelength microflow cytometer using groove-generated sheath flow. *Lab on A Chip*, **2009**, 9, 1942-50	7.2	124
118	Perspective on optical biosensors and integrated sensor systems. *Analytical Chemistry*, **2009**, 81, 519-26	7.8	194
117	Immobilized proanthocyanidins for the capture of bacterial lipopolysaccharides. *Analytical Chemistry*, **2008**, 80, 2113-7	7.8	23
116	Impact of cranberry on Escherichia coli cellular surface characteristics. *Biochemical and Biophysical Research Communications*, **2008**, 377, 992-4	3.4	21
115	Two simple and rugged designs for creating microfluidic sheath flow. *Lab on A Chip*, **2008**, 8, 1097-103	7.2	95
114	A combinatorial approach to microfluidic mixing. *Journal of Micromechanics and Microengineering*, **2008**, 18, 115019	2	16
113	Array Biosensor for Toxin Detection: Continued Advances. *Sensors*, **2008**, 8, 8361-8377	3.8	48
112	New Biological Activities of Plant Proanthocyanidins. *ACS Symposium Series*, **2008**, 101-114	0.4	
111	Fabrication and Characterization of Silicon Micro-Funnels and Tapered Micro-Channels for Stochastic Sensing Applications. *Sensors*, **2008**, 8, 3848-3872	3.8	14

110	The good, the bad, and the tiny: a review of microflow cytometry. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 1485-98	4.4	180
109	Binding and neutralization of lipopolysaccharides by plant proanthocyanidins. *Journal of Natural Products*, **2007**, 70, 1718-24	4.9	46
108	Combination of immunosensor detection with viability testing and confirmation using the polymerase chain reaction and culture. *Analytical Chemistry*, **2007**, 79, 140-6	7.8	11
107	Target delivery in a microfluidic immunosensor. *Biosensors and Bioelectronics*, **2007**, 22, 2763-7	11.8	47
106	Antimicrobial peptides as new recognition molecules for screening challenging species. *Sensors and Actuators B: Chemical*, **2007**, 121, 150-157	8.5	59
105	Laser ablation of micropores for formation of artificial planar lipid bilayers. *Biomedical Microdevices*, **2007**, 9, 863-8	3.7	22
104	Incorporation of 18Oxygen into Peptide Mixtures and Analysis with Multi-Dimensional Chromatography and Mass-Spectroscopy. *Analytical Letters*, **2007**, 40, 1864-1878	2.2	5
103	The array biosensor: portable, automated systems. *Analytical Sciences*, **2007**, 23, 5-10	1.7	115
102	Antimicrobial Peptides: New Recognition Molecules for Detecting Botulinum Toxins. *Sensors*, **2007**, 7, 2808-2824	3.8	24
101	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. *Analytical Letters*, **2007**, 40, 3219-3231	2.2	11
100	Crosslinkers Modify Affinity of Immobilized Carbohydrates for Cholera Toxin. *Sensor Letters*, **2007**, 5, 621-624	0.9	8
99	Application of broad-spectrum, sequence-based pathogen identification in an urban population. *PLoS ONE*, **2007**, 2, e419	3.7	24
98	Rapid detection of foodborne contaminants using an Array Biosensor. *Sensors and Actuators B: Chemical*, **2006**, 113, 599-607	8.5	94
97	Detection of bacterial toxins with monosaccharide arrays. *Biosensors and Bioelectronics*, **2006**, 21, 1195-2018	10.8	69
96	Detection of deoxynivalenol in foods and indoor air using an array biosensor. *Environmental Science & Technology*, **2006**, 40, 2352-6	10.3	68
95	Toolbox for the design of optimized microfluidic components. *Lab on A Chip*, **2006**, 6, 540-9	7.2	39
94	Prevention of nonspecific bacterial cell adhesion in immunoassays by use of cranberry juice. *Analytical Chemistry*, **2006**, 78, 853-7	7.8	37
93	Multiplexed detection of mycotoxins in foods with a regenerable array. *Journal of Food Protection*, **2006**, 69, 3047-51	2.5	38

92	A cowpea mosaic virus nanoscaffold for multiplexed antibody conjugation: application as an immunoassay tracer. *Biosensors and Bioelectronics*, **2006**, 21, 1668-73	11.8	74
91	Simultaneous determination of kinetic parameters for the binding of cholera toxin to immobilized sialic acid and monoclonal antibody using an array biosensor. *Biosensors and Bioelectronics*, **2006**, 22, 124-30	11.8	20
90	Multiplexed measurement of serum antibodies using an array biosensor. *Biosensors and Bioelectronics*, **2006**, 21, 1880-6	11.8	43
89	Point-of-care biosensor systems for cancer diagnostics/prognostics. *Biosensors and Bioelectronics*, **2006**, 21, 1932-42	11.8	272
88	Antimicrobial peptide-based array for Escherichia coli and Salmonella screening. *Analytica Chimica Acta*, **2006**, 575, 9-15	6.6	95
87	Array biosensor for detection of ochratoxin A in cereals and beverages. *Analytical Chemistry*, **2005**, 77, 148-54	7.8	117
86	A portable automated multianalyte biosensor. *Talanta*, **2005**, 65, 1078-85	6.2	51
85	Antimicrobial peptides for detection of bacteria in biosensor assays. *Analytical Chemistry*, **2005**, 77, 6504-8	7.8	149
84	A microfluidic mixer with grooves placed on the top and bottom of the channel. *Lab on A Chip*, **2005** , 5, 524-30	7.2	105
83	Evanescent wave fluorescence biosensors. *Biosensors and Bioelectronics*, **2005**, 20, 2470-87	11.8	221
82	Biosensor detection of botulinum toxoid A and staphylococcal enterotoxin B in food. *Applied and Environmental Microbiology*, **2005**, 71, 5590-2	4.8	85
81	Real-time analysis of protein adsorption to a variety of thin films. *Biosensors and Bioelectronics*, **2004**, 19, 1045-55	11.8	97
80	Design and evaluation of a Dean vortex-based micromixer. *Lab on A Chip*, **2004**, 4, 663-9	7.2	85
79	Detection of Salmonella enterica serovar typhimurium by using a rapid, array-based immunosensor. *Applied and Environmental Microbiology*, **2004**, 70, 152-8	4.8	80
78	Detection of campylobacter and Shigella species in food samples using an array biosensor. *Analytical Chemistry*, **2004**, 76, 433-40	7.8	86
77	Colored thin films for specific metal ion detection. *Environmental Science & Technology*, **2004**, 38, 4409-13	10.3	32
76	Detection of staphylococcal enterotoxin B in spiked food samples. *Journal of Food Protection*, **2003**, 66, 1851-6	2.5	58
75	Method for printing functional protein microarrays. *BioTechniques*, **2003**, 34, 380-5	2.5	66

74	Array biosensor for detection of toxins. *Analytical and Bioanalytical Chemistry*, **2003**, 377, 469-77	4.4	238
73	Color changes in chitosan and poly(allyl amine) films upon metal binding. *Thin Solid Films*, **2003**, 434, 250-257	2.2	59
72	Attachment of plastic fluidic components to glass sensing surfaces. *Biosensors and Bioelectronics*, **2002**, 17, 105-10	11.8	11
71	Fabrication of a capillary immunosensor in polymethyl methacrylate. *Biosensors and Bioelectronics*, **2002**, 17, 95-103	11.8	39
70	Voltage-induced inhibition of antigen-antibody binding at conducting optical waveguides. *Biosensors and Bioelectronics*, **2002**, 17, 489-94	11.8	27
69	A comparison of imaging methods for use in an array biosensor. *Biosensors and Bioelectronics*, **2002**, 17, 719-25	11.8	51
68	Cross-linked Chitosan and Poly(allyl amine) Thin Films. *Materials Research Society Symposia Proceedings*, **2002**, 750, 1		1
67	A microarray immunoassay for simultaneous detection of proteins and bacteria. *Analytical Chemistry*, **2002**, 74, 5681-7	7.8	287
66	Demonstration of four immunoassay formats using the array biosensor. *Analytical Chemistry*, **2002**, 74, 1061-8	7.8	115
65	Integrating waveguide biosensor. *Analytical Chemistry*, **2002**, 74, 713-9	7.8	84
64	Nine-analyte detection using an array-based biosensor. *Analytical Chemistry*, **2002**, 74, 6114-20	7.8	133
63	Development of Uniform Chitosan Thin-Film Layers on Silicon Chips. *Langmuir*, **2001**, 17, 5082-5084	4	50
62	Fluidics cube for biosensor miniaturization. *Analytical Chemistry*, **2001**, 73, 3776-80	7.8	18
61	Kinetics of antigen binding to arrays of antibodies in different sized spots. *Analytical Chemistry*, **2001**, 73, 5518-24	7.8	79
60	Continuous flow displacement immunosensors: a computational study. *Analytical Biochemistry*, **2000**, 287, 234-42	3.1	13
59	A liquid crystal pixel array for signal discrimination in array biosensors. *Biosensors and Bioelectronics* , **2000**, 15, 417-21	11.8	16
58	Simultaneous detection of six biohazardous agents using a planar waveguide array biosensor. *Biosensors and Bioelectronics*, **2000**, 15, 579-89	11.8	133
57	Trace detection of explosives using a membrane-based displacement immunoassay. *Journal of Immunological Methods*, **2000**, 246, 69-77	2.5	55

56	Detecting staphylococcal enterotoxin B using an automated fiber optic biosensor. *Biosensors and Bioelectronics*, **1999**, 14, 163-70	11.8	73
55	Multi-analyte explosive detection using a fiber optic biosensor. *Analytica Chimica Acta*, **1999**, 399, 13-20	6.6	68
54	Array biosensor: optical and fluidics systems. *Biomedical Microdevices*, **1999**, 1, 139-53	3.7	69
53	A computational reaction-diffusion model for the analysis of transport-limited kinetics. *Analytical Chemistry*, **1999**, 71, 5405-12	7.8	87
52	Array biosensor for simultaneous identification of bacterial, viral, and protein analytes. *Analytical Chemistry*, **1999**, 71, 3846-52	7.8	245
51	An array immunosensor for simultaneous detection of clinical analytes. *Analytical Chemistry*, **1999**, 71, 433-9	7.8	218
50	Multianalyte detection using a capillary-based flow immunosensor. *Analytical Biochemistry*, **1998**, 255, 13-9	3.1	72
49	A fiber optic biosensor for multianalyte detection: importance of preventing fluorophore aggregation. *Sensors and Actuators B: Chemical*, **1998**, 51, 46-51	8.5	15
48	Detection of multiple toxic agents using a planar array immunosensor. *Biosensors and Bioelectronics* , **1998**, 13, 407-15	11.8	107
47	A membrane-based displacement flow immunoassay. *Biosensors and Bioelectronics*, **1998**, 13, 939-44	11.8	25
46	Remote Sensing Using an Airborne Biosensor. *Environmental Science & Technology*, **1998**, 32, 2461-2466	10.9	53
45	Dissociation Rate Kinetics in a Solid-Phase Flow Immunoassay. *Analytical Letters*, **1998**, 31, 1663-1675	2.2	16
44	Assessment of heterogeneity in antibody-antigen displacement reactions. *Analytical Chemistry*, **1997**, 69, 175-82	7.8	25
43	Capillary-Based Displacement Flow Immunosensor. *Analytical Chemistry*, **1997**, 69, 1961-1964	7.8	42
42	A Displacement Flow Immunosensor for Explosive Detection Using Microcapillaries. *Analytical Chemistry*, **1997**, 69, 2779-2785	7.8	60
41	On-Site Detection of TNT with a Portable Fiber Optic Biosensor. *Environmental Science & Technology*, **1997**, 31, 837-841	10.3	79
40	Effectiveness of protein A for antibody immobilization for a fiber optic biosensor. *Biosensors and Bioelectronics*, **1997**, 12, 329-36	11.8	109
39	Fiber optic-based biosensor for ricin. *Biosensors and Bioelectronics*, **1997**, 12, 937-45	11.8	95

38	Antibody immobilization using heterobifunctional crosslinkers. *Biosensors and Bioelectronics*, **1997**, 12, 1101-6	11.8	117
37	Adaptation of a Fiber-Optic Biosensor for Use in Environmental Monitoring. *ACS Symposium Series*, **1996**, 33-43	0.4	4
36	Environmental Immunosensing at the Naval Research Laboratory. *ACS Symposium Series*, **1996**, 46-55	0.4	2
35	Use of the USDT flow immunosensor for quantitation of benzoylecgonine in urine. *Biosensors and Bioelectronics*, **1996**, 11, 725-34	11.8	23
34	Quantitating staphylococcal enterotoxin B in diverse media using a portable fiber-optic biosensor. *Analytical Biochemistry*, **1996**, 233, 50-7	3.1	90
33	Use of three longer-wavelength fluorophores with the fiber-optic biosensor. *Sensors and Actuators B: Chemical*, **1995**, 29, 25-30	8.5	16
32	Binding kinetics of immobilized antibodies in a flow immunosensor. *Sensors and Actuators B: Chemical*, **1995**, 29, 72-78	8.5	18
31	Detection of TNT in Water Using an Evanescent Wave Fiber-Optic Biosensor. *Analytical Chemistry*, **1995**, 67, 2431-2435	7.8	125
30	Calibration of biosensor response using simultaneous evanescent wave excitation of cyanine-labeled capture antibodies and antigens. *Analytical Biochemistry*, **1995**, 232, 73-8	3.1	23
29	Inclusion of ganglioside GM1 into liposome encapsulated hemoglobin does not extend circulation persistence at clinically relevant doses. *Artificial Cells, Blood Substitutes, and Biotechnology*, **1994**, 22, 9-25		10
28	Regeneration of immobilized antibodies on fiber optic probes. *Biosensors and Bioelectronics*, **1994**, 9, 585-92	11.8	34
27	Effect of antibody density on the displacement kinetics of a flow immunoassay. *Journal of Immunological Methods*, **1994**, 168, 227-34	2.5	30
26	Fiber-Optic Biosensor for the Detection of Hazardous Materials. *ImmunoMethods*, **1993**, 3, 122-127		46
25	Continuous-flow immunosensor for detection of explosives. *Analytical Chemistry*, **1993**, 65, 3561-3565	7.8	111
24	A fiber-optic evanescent-wave immunosensor for large molecules. *Sensors and Actuators B: Chemical*, **1993**, 11, 239-243	8.5	23
23	A fiber optic biosensor: combination tapered fibers designed for improved signal acquisition. *Biosensors and Bioelectronics*, **1993**, 8, 249-256	11.8	72
22	The Effect of Tapering the Optical Fiber on Evanescent Wave Measurements. *Analytical Letters*, **1992**, 25, 1183-1199	2.2	36
21	Liposome encapsulated hemoglobin: long-term storage stability and in vivo characterization. *Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology*, **1992**, 20, 619-26		6

20	Detection of Cocaine Using the Flow Immunosensor. *Analytical Letters*, **1992**, 25, 1999-2019	2.2	32
19	New approach to producing patterned biomolecular assemblies. *Journal of the American Chemical Society*, **1992**, 114, 4432-4433	16.4	108
18	Kinetics of antibody binding at solid-liquid interfaces in flow. *Journal of Immunological Methods*, **1992**, 156, 223-30	2.5	38
17	Detection of Clostridium botulinum toxin A using a fiber optic-based biosensor. *Analytical Biochemistry*, **1992**, 205, 306-12	3.1	134
16	Drug Detection Using the Flow Immunosensor. *ACS Symposium Series*, **1992**, 73-80	0.4	2
15	Immobilization of acetylcholinesterase on solid surfaces: chemistry and activity studies. *Sensors and Actuators B: Chemical*, **1991**, 3, 311-317	8.5	19
14	Novel trifunctional carrier molecule for the fluorescent labeling of haptens. *Analytical Biochemistry*, **1991**, 193, 272-9	3.1	9
13	A continuous flow immunoassay for rapid and sensitive detection of small molecules. *Journal of Immunological Methods*, **1990**, 135, 191-7	2.5	68
12	Use of thiol-terminal silanes and heterobifunctional crosslinkers for immobilization of antibodies on silica surfaces. *Analytical Biochemistry*, **1989**, 178, 408-13	3.1	316
11	The Stability and Shelf-Life of Liposome Encapsulated Hemoglobin: A Potential Blood Substitute. *Materials Research Society Symposia Proceedings*, **1987**, 110, 153		2
10	Cytogenetics and cell surface marker analysis in chronic myelocytic leukemia. II. Implications for patient management. *Cancer Genetics and Cytogenetics*, **1987**, 26, 25-37		4
9	A homogeneous immunoassay for the mycotoxin T-2 utilizing liposomes, monoclonal antibodies, and complement. *Analytical Biochemistry*, **1987**, 163, 369-75	3.1	31
8	Cytogenetics and cell surface marker analysis in CML--1. Prediction of phenotype of acute phase transformation. *Leukemia Research*, **1985**, 9, 1093-8	2.7	5
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