

Frances S Ligler

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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	Microneedle-array patches loaded with hypoxia-sensitive vesicles provide fast glucose-responsive insulin delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8260-5	11.5	509
198	Transformable liquid-metal nanomedicine. <i>Nature Communications</i> , 2015 , 6, 10066	17.4	320
197	Use of thiol-terminal silanes and heterobifunctional crosslinkers for immobilization of antibodies on silica surfaces. <i>Analytical Biochemistry</i> , 1989 , 178, 408-13	3.1	316
196	A microarray immunoassay for simultaneous detection of proteins and bacteria. <i>Analytical Chemistry</i> , 2002 , 74, 5681-7	7.8	287
195	Point-of-care biosensor systems for cancer diagnostics/prognostics. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1932-42	11.8	272
194	Array biosensor for simultaneous identification of bacterial, viral, and protein analytes. <i>Analytical Chemistry</i> , 1999 , 71, 3846-52	7.8	245
193	Array biosensor for detection of toxins. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 469-77	4.4	238
192	Evanescent wave fluorescence biosensors. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2470-87	11.8	221
191	An array immunosensor for simultaneous detection of clinical analytes. <i>Analytical Chemistry</i> , 1999 , 71, 433-9	7.8	218
190	Perspective on optical biosensors and integrated sensor systems. <i>Analytical Chemistry</i> , 2009 , 81, 519-26	7.8	194
189	The good, the bad, and the tiny: a review of microflow cytometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1485-98	4.4	180
188	Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells. <i>Advanced Materials</i> , 2019 , 31, e1900192	24	178
187	Hypoxia and HO Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. <i>Nano Letters</i> , 2017 , 17, 733-739	11.5	172
186	Interpenetrating networks based on gelatin methacrylamide and PEG formed using concurrent thiol click chemistries for hydrogel tissue engineering scaffolds. <i>Biomaterials</i> , 2014 , 35, 1845-56	15.6	168
185	Antimicrobial peptides for detection of bacteria in biosensor assays. <i>Analytical Chemistry</i> , 2005 , 77, 6504-8	7.8	149
184	Detection of Clostridium botulinum toxin A using a fiber optic-based biosensor. <i>Analytical Biochemistry</i> , 1992 , 205, 306-12	3.1	134
183	Nine-analyte detection using an array-based biosensor. <i>Analytical Chemistry</i> , 2002 , 74, 6114-20	7.8	133

182	Simultaneous detection of six biohazardous agents using a planar waveguide array biosensor. <i>Biosensors and Bioelectronics</i> , 2000 , 15, 579-89	11.8	133
181	Detection of TNT in Water Using an Evanescent Wave Fiber-Optic Biosensor. <i>Analytical Chemistry</i> , 1995 , 67, 2431-2435	7.8	125
180	Multi-wavelength microflow cytometer using groove-generated sheath flow. <i>Lab on A Chip</i> , 2009 , 9, 1942-50	7.5	124
179	Antibody immobilization using heterobifunctional crosslinkers. <i>Biosensors and Bioelectronics</i> , 1997 , 12, 1101-6	11.8	117
178	Array biosensor for detection of ochratoxin A in cereals and beverages. <i>Analytical Chemistry</i> , 2005 , 77, 148-54	7.8	117
177	The array biosensor: portable, automated systems. <i>Analytical Sciences</i> , 2007 , 23, 5-10	1.7	115
176	Demonstration of four immunoassay formats using the array biosensor. <i>Analytical Chemistry</i> , 2002 , 74, 1061-8	7.8	115
175	Microfluidic strategies for design and assembly of microfibers and nanofibers with tissue engineering and regenerative medicine applications. <i>Advanced Healthcare Materials</i> , 2015 , 4, 11-28	10.1	112
174	Continuous-flow immunosensor for detection of explosives. <i>Analytical Chemistry</i> , 1993 , 65, 3561-3565	7.8	111
173	Synthetic beta cells for fusion-mediated dynamic insulin secretion. <i>Nature Chemical Biology</i> , 2018 , 14, 86-93	11.7	110
172	Programmable nanomedicine: synergistic and sequential drug delivery systems. <i>Nanoscale</i> , 2015 , 7, 3381-91	7.9	109
171	Effectiveness of protein A for antibody immobilization for a fiber optic biosensor. <i>Biosensors and Bioelectronics</i> , 1997 , 12, 329-36	11.8	109
170	New approach to producing patterned biomolecular assemblies. <i>Journal of the American Chemical Society</i> , 1992 , 114, 4432-4433	16.4	108
169	Detection of multiple toxic agents using a planar array immunosensor. <i>Biosensors and Bioelectronics</i> , 1998 , 13, 407-15	11.8	107
168	A microfluidic mixer with grooves placed on the top and bottom of the channel. <i>Lab on A Chip</i> , 2005 , 5, 524-30	7.2	105
167	Real-time analysis of protein adsorption to a variety of thin films. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1045-55	11.8	97
166	Fiber optic-based biosensor for ricin. <i>Biosensors and Bioelectronics</i> , 1997 , 12, 937-45	11.8	95
165	Two simple and rugged designs for creating microfluidic sheath flow. <i>Lab on A Chip</i> , 2008 , 8, 1097-103	7.2	95

164	Antimicrobial peptide-based array for Escherichia coli and Salmonella screening. <i>Analytica Chimica Acta</i> , 2006 , 575, 9-15	6.6	95
163	Rapid detection of foodborne contaminants using an Array Biosensor. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 599-607	8.5	94
162	Multiplexed detection of bacteria and toxins using a microflow cytometer. <i>Analytical Chemistry</i> , 2009 , 81, 5426-32	7.8	93
161	Quantitating staphylococcal enterotoxin B in diverse media using a portable fiber-optic biosensor. <i>Analytical Biochemistry</i> , 1996 , 233, 50-7	3.1	90
160	A computational reaction-diffusion model for the analysis of transport-limited kinetics. <i>Analytical Chemistry</i> , 1999 , 71, 5405-12	7.8	87
159	Detection of campylobacter and Shigella species in food samples using an array biosensor. <i>Analytical Chemistry</i> , 2004 , 76, 433-40	7.8	86
158	Design and evaluation of a Dean vortex-based micromixer. <i>Lab on A Chip</i> , 2004 , 4, 663-9	7.2	85
157	Biosensor detection of botulinum toxoid A and staphylococcal enterotoxin B in food. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 5590-2	4.8	85
156	Integrating waveguide biosensor. <i>Analytical Chemistry</i> , 2002 , 74, 713-9	7.8	84
155	Evanescent wave fluorescence biosensors: Advances of the last decade. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 103-12	11.8	80
154	Detection of Salmonella enterica serovar typhimurium by using a rapid, array-based immunosensor. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 152-8	4.8	80
153	On-Site Detection of TNT with a Portable Fiber Optic Biosensor. <i>Environmental Science & Technology</i> , 1997 , 31, 837-841	10.3	79
152	Kinetics of antigen binding to arrays of antibodies in different sized spots. <i>Analytical Chemistry</i> , 2001 , 73, 5518-24	7.8	79
151	A cowpea mosaic virus nanoscaffold for multiplexed antibody conjugation: application as an immunoassay tracer. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1668-73	11.8	74
150	Detecting staphylococcal enterotoxin B using an automated fiber optic biosensor. <i>Biosensors and Bioelectronics</i> , 1999 , 14, 163-70	11.8	73
149	Review of analytical performance of COVID-19 detection methods. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 35-48	4.4	73
148	A simple sheath-flow microfluidic device for micro/nanomanufacturing: fabrication of hydrodynamically shaped polymer fibers. <i>Lab on A Chip</i> , 2009 , 9, 3126-30	7.2	72
147	Multianalyte detection using a capillary-based flow immunosensor. <i>Analytical Biochemistry</i> , 1998 , 255, 13-9	3.1	72

146	A fiber optic biosensor: combination tapered fibers designed for improved signal acquisition. <i>Biosensors and Bioelectronics</i> , 1993 , 8, 249-256	11.8	72
145	Optofluidic characterization of marine algae using a microflow cytometer. <i>Biomicrofluidics</i> , 2011 , 5, 32009-32009	9.2	69
144	Detection of bacterial toxins with monosaccharide arrays. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1195-1201	11.8	69
143	Array biosensor: optical and fluidics systems. <i>Biomedical Microdevices</i> , 1999 , 1, 139-53	3.7	69
142	Detection of deoxynivalenol in foods and indoor air using an array biosensor. <i>Environmental Science & Technology</i> , 2006 , 40, 2352-6	10.3	68
141	Multi-analyte explosive detection using a fiber optic biosensor. <i>Analytica Chimica Acta</i> , 1999 , 399, 13-20	6.6	68
140	A continuous flow immunoassay for rapid and sensitive detection of small molecules. <i>Journal of Immunological Methods</i> , 1990 , 135, 191-7	2.5	68
139	Method for printing functional protein microarrays. <i>BioTechniques</i> , 2003 , 34, 380-5	2.5	66
138	Organic photodiodes for biosensor miniaturization. <i>Analytical Chemistry</i> , 2009 , 81, 3455-61	7.8	62
137	A Displacement Flow Immunosensor for Explosive Detection Using Microcapillaries. <i>Analytical Chemistry</i> , 1997 , 69, 2779-2785	7.8	60
136	Antimicrobial peptides as new recognition molecules for screening challenging species. <i>Sensors and Actuators B: Chemical</i> , 2007 , 121, 150-157	8.5	59
135	Color changes in chitosan and poly(allyl amine) films upon metal binding. <i>Thin Solid Films</i> , 2003 , 434, 250-257	2.2	59
134	Detection of staphylococcal enterotoxin B in spiked food samples. <i>Journal of Food Protection</i> , 2003 , 66, 1851-6	2.5	58
133	Platelet-Inspired Nanocells for Targeted Heart Repair After Ischemia/Reperfusion Injury. <i>Advanced Functional Materials</i> , 2019 , 29, 1803567	15.6	58
132	Microflow Cytometer for optical analysis of phytoplankton. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4263-4269	11.8	55
131	Trace detection of explosives using a membrane-based displacement immunoassay. <i>Journal of Immunological Methods</i> , 2000 , 246, 69-77	2.5	55
130	Remote Sensing Using an Airborne Biosensor. <i>Environmental Science & Technology</i> , 1998 , 32, 2461-2466	10.6	53
129	A portable automated multianalyte biosensor. <i>Talanta</i> , 2005 , 65, 1078-85	6.2	51

128	A comparison of imaging methods for use in an array biosensor. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 719-25	11.8	51
127	Development of Uniform Chitosan Thin-Film Layers on Silicon Chips. <i>Langmuir</i> , 2001 , 17, 5082-5084	4	50
126	Time-Dependent Model for Fluid Flow in Porous Materials with Multiple Pore Sizes. <i>Analytical Chemistry</i> , 2017 , 89, 4377-4381	7.8	48
125	Leveraging H ₂ O Levels for Biomedical Applications. <i>Advanced Biology</i> , 2017 , 1, e1700084	3.5	48
124	Array Biosensor for Toxin Detection: Continued Advances. <i>Sensors</i> , 2008 , 8, 8361-8377	3.8	48
123	Cardiac Stem Cell Patch Integrated with Microengineered Blood Vessels Promotes Cardiomyocyte Proliferation and Neovascularization after Acute Myocardial Infarction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33088-33096	9.5	48
122	Target delivery in a microfluidic immunosensor. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2763-7	11.8	47
121	Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers. <i>Advanced Functional Materials</i> , 2013 , 23, 698-704	15.6	46
120	Binding and neutralization of lipopolysaccharides by plant proanthocyanidins. <i>Journal of Natural Products</i> , 2007 , 70, 1718-24	4.9	46
119	Fiber-Optic Biosensor for the Detection of Hazardous Materials. <i>ImmunoMethods</i> , 1993 , 3, 122-127		46
118	The role of receptor IgM and IgD in determining triggering and induction of tolerance in murine B cells. <i>Immunological Reviews</i> , 1979 , 43, 69-95	11.3	45
117	3D hydrodynamic focusing microfluidics for emerging sensing technologies. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 25-34	11.8	44
116	Multiplexed magnetic microsphere immunoassays for detection of pathogens in foods. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2010 , 4, 73-81		43
115	Multiplexed measurement of serum antibodies using an array biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1880-6	11.8	43
114	Optimization of antibody-conjugated magnetic nanoparticles for target preconcentration and immunoassays. <i>Analytical Biochemistry</i> , 2011 , 410, 124-32	3.1	42
113	Capillary-Based Displacement Flow Immunosensor. <i>Analytical Chemistry</i> , 1997 , 69, 1961-1964	7.8	42
112	Design and fabrication of uniquely shaped thiol-ene microfibers using a two-stage hydrodynamic focusing design. <i>Lab on A Chip</i> , 2013 , 13, 3105-10	7.2	41
111	Hydrodynamic focusing—a versatile tool. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 325-35	4.4	40

110	Toolbox for the design of optimized microfluidic components. <i>Lab on A Chip</i> , 2006 , 6, 540-9	7.2	39
109	Fabrication of a capillary immunosensor in polymethyl methacrylate. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 95-103	11.8	39
108	UV polymerization of hydrodynamically shaped fibers. <i>Lab on A Chip</i> , 2011 , 11, 1157-60	7.2	38
107	Multiplexed detection of mycotoxins in foods with a regenerable array. <i>Journal of Food Protection</i> , 2006 , 69, 3047-51	2.5	38
106	Kinetics of antibody binding at solid-liquid interfaces in flow. <i>Journal of Immunological Methods</i> , 1992 , 156, 223-30	2.5	38
105	Point-of-care diagnostics for niche applications. <i>Biotechnology Advances</i> , 2016 , 34, 161-76	17.8	37
104	Prevention of nonspecific bacterial cell adhesion in immunoassays by use of cranberry juice. <i>Analytical Chemistry</i> , 2006 , 78, 853-7	7.8	37
103	A dual wavelength-activatable gold nanorod complex for synergistic cancer treatment. <i>Nanoscale</i> , 2015 , 7, 12096-103	7.7	36
102	The Effect of Tapering the Optical Fiber on Evanescent Wave Measurements. <i>Analytical Letters</i> , 1992 , 25, 1183-1199	2.2	36
101	Spinning magnetic trap for automated microfluidic assay systems. <i>Lab on A Chip</i> , 2012 , 12, 1793-9	7.2	34
100	Hydrodynamic shaping, polymerization, and subsequent modification of thiol click fibers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 114-9	9.5	34
99	Regeneration of immobilized antibodies on fiber optic probes. <i>Biosensors and Bioelectronics</i> , 1994 , 9, 585-92	11.8	34
98	Acute lymphocytic leukemic transformation of chronic lymphocytic leukemia: substantiation by flow cytometry. <i>American Journal of Hematology</i> , 1981 , 10, 391-8	7.1	34
97	Microfabricated blood vessels undergo neoangiogenesis. <i>Biomaterials</i> , 2017 , 138, 142-152	15.6	33
96	Signal amplification strategies for microfluidic immunoassays. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 326-334	14.6	33
95	Catch and release: integrated system for multiplexed detection of bacteria. <i>Analytical Chemistry</i> , 2013 , 85, 4944-50	7.8	33
94	In situ phytoplankton analysis: there's plenty of room at the bottom. <i>Analytical Chemistry</i> , 2012 , 84, 839-50	7.8	32
93	Colored thin films for specific metal ion detection. <i>Environmental Science & Technology</i> , 2004 , 38, 4409-13	10.3	32

92	Detection of Cocaine Using the Flow Immunosensor. <i>Analytical Letters</i> , 1992 , 25, 1999-2019	2.2	32
91	A homogeneous immunoassay for the mycotoxin T-2 utilizing liposomes, monoclonal antibodies, and complement. <i>Analytical Biochemistry</i> , 1987 , 163, 369-75	3.1	31
90	Effect of antibody density on the displacement kinetics of a flow immunoassay. <i>Journal of Immunological Methods</i> , 1994 , 168, 227-34	2.5	30
89	Voltage-induced inhibition of antigen-antibody binding at conducting optical waveguides. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 489-94	11.8	27
88	Lighting Up Biosensors: Now and the Decade To Come. <i>Analytical Chemistry</i> , 2019 , 91, 8732-8738	7.8	26
87	Dynamic reversibility of hydrodynamic focusing for recycling sheath fluid. <i>Lab on A Chip</i> , 2010 , 10, 1952-9.2	9.2	25
86	Assessment of heterogeneity in antibody-antigen displacement reactions. <i>Analytical Chemistry</i> , 1997 , 69, 175-82	7.8	25
85	A membrane-based displacement flow immunoassay. <i>Biosensors and Bioelectronics</i> , 1998 , 13, 939-44	11.8	25
84	A hard microflow cytometer using groove-generated sheath flow for multiplexed bead and cell assays. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1871-81	4.4	24
83	Antimicrobial Peptides: New Recognition Molecules for Detecting Botulinum Toxins. <i>Sensors</i> , 2007 , 7, 2808-2824	3.8	24
82	Application of broad-spectrum, sequence-based pathogen identification in an urban population. <i>PLoS ONE</i> , 2007 , 2, e419	3.7	24
81	Self-folded redox/acid dual-responsive nanocarriers for anticancer drug delivery. <i>Chemical Communications</i> , 2014 , 50, 15105-8	5.8	23
80	Microfluidic fabrication of multiaxial microvessels via hydrodynamic shaping. <i>RSC Advances</i> , 2014 , 4, 23440-23446	3.7	23
79	Immobilized proanthocyanidins for the capture of bacterial lipopolysaccharides. <i>Analytical Chemistry</i> , 2008 , 80, 2113-7	7.8	23
78	Use of the USDT flow immunosensor for quantitation of benzoylecgonine in urine. <i>Biosensors and Bioelectronics</i> , 1996 , 11, 725-34	11.8	23
77	Calibration of biosensor response using simultaneous evanescent wave excitation of cyanine-labeled capture antibodies and antigens. <i>Analytical Biochemistry</i> , 1995 , 232, 73-8	3.1	23
76	A fiber-optic evanescent-wave immunosensor for large molecules. <i>Sensors and Actuators B: Chemical</i> , 1993 , 11, 239-243	8.5	23
75	Hydrodynamically directed multiscale assembly of shaped polymer fibers. <i>Soft Matter</i> , 2012 , 8, 6656	3.6	22

74	Rapid analytical methods for on-site triage for traumatic brain injury. <i>Annual Review of Analytical Chemistry</i> , 2012 , 5, 35-56	12.5	22
73	Utilization of microparticles in next-generation assays for microflow cytometers. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2373-82	4.4	22
72	Hydrodynamic focusing of conducting fluids for conductivity-based biosensors. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1363-9	11.8	22
71	Laser ablation of micropores for formation of artificial planar lipid bilayers. <i>Biomedical Microdevices</i> , 2007 , 9, 863-8	3.7	22
70	Facile Fabrication of Color Tunable Film and Fiber Nanocomposites via Thiol Click Chemistry. <i>Macromolecules</i> , 2014 , 47, 695-704	5.5	21
69	Impact of cranberry on Escherichia coli cellular surface characteristics. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 377, 992-4	3.4	21
68	Simultaneous determination of kinetic parameters for the binding of cholera toxin to immobilized sialic acid and monoclonal antibody using an array biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 22, 124-30	11.8	20
67	Review of recent developments in stimulated emission depletion microscopy: applications on cell imaging. <i>Journal of Biomedical Optics</i> , 2014 , 19, 080901	3.5	19
66	Immobilization of acetylcholinesterase on solid surfaces: chemistry and activity studies. <i>Sensors and Actuators B: Chemical</i> , 1991 , 3, 311-317	8.5	19
65	Iron chelation by cranberry juice and its impact on Escherichia coli growth. <i>BioFactors</i> , 2011 , 37, 121-30	6.1	18
64	Fluidics cube for biosensor miniaturization. <i>Analytical Chemistry</i> , 2001 , 73, 3776-80	7.8	18
63	Binding kinetics of immobilized antibodies in a flow immunosensor. <i>Sensors and Actuators B: Chemical</i> , 1995 , 29, 72-78	8.5	18
62	Modular pumps as programmable hydraulic batteries for microfluidic devices 2017 , 05, 21-30		17
61	Fibrin Nanoparticles Coupled with Keratinocyte Growth Factor Enhance the Dermal Wound-Healing Rate. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3771-3780	9.5	17
60	Parameters affecting the shape of a hydrodynamically focused stream. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 119-128	2.8	16
59	A combinatorial approach to microfluidic mixing. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 115019	2	16
58	A liquid crystal pixel array for signal discrimination in array biosensors. <i>Biosensors and Bioelectronics</i> , 2000 , 15, 417-21	11.8	16
57	Dissociation Rate Kinetics in a Solid-Phase Flow Immunoassay. <i>Analytical Letters</i> , 1998 , 31, 1663-1675	2.2	16

56	Use of three longer-wavelength fluorophores with the fiber-optic biosensor. <i>Sensors and Actuators B: Chemical</i> , 1995 , 29, 25-30	8.5	16
55	Cardiac Stromal Cell Patch Integrated with Engineered Microvessels Improves Recovery from Myocardial Infarction in Rats and Pigs. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6309-6320	5.5	16
54	Simultaneous assay for ten bacteria and toxins in spiked clinical samples using a microflow cytometer. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5611-4	4.4	15
53	A fiber optic biosensor for multianalyte detection: importance of preventing fluorophore aggregation. <i>Sensors and Actuators B: Chemical</i> , 1998 , 51, 46-51	8.5	15
52	Fabrication and Characterization of Silicon Micro-Funnels and Tapered Micro-Channels for Stochastic Sensing Applications. <i>Sensors</i> , 2008 , 8, 3848-3872	3.8	14
51	Photothermal Therapy: Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells (Adv. Mater. 23/2019). <i>Advanced Materials</i> , 2019 , 31, 1970166	24	13
50	A temperature microsensor for measuring laser-induced heating in gold nanorods. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 719-25	4.4	13
49	Continuous flow displacement immunosensors: a computational study. <i>Analytical Biochemistry</i> , 2000 , 287, 234-42	3.1	13
48	Effect of diffusion on impedance measurements in a hydrodynamic flow focusing sensor. <i>Lab on a Chip</i> , 2010 , 10, 2787-95	7.2	12
47	Microfluidics for the study of mechanotransduction. <i>Journal Physics D: Applied Physics</i> , 2020 , 53,	3	11
46	Hydrodynamic focusing for impedance-based detection of specifically bound microparticles and cells: Implications of fluid dynamics on tunable sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 386-393	8.5	11
45	Combination of immunosensor detection with viability testing and confirmation using the polymerase chain reaction and culture. <i>Analytical Chemistry</i> , 2007 , 79, 140-6	7.8	11
44	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. <i>Analytical Letters</i> , 2007 , 40, 3219-3231	2.3	11
43	Attachment of plastic fluidic components to glass sensing surfaces. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 105-10	11.8	11
42	Monocyte markers and the common acute lymphoblastic leukemia antigen on chronic lymphocytic leukemia cells. <i>American Journal of Hematology</i> , 1983 , 15, 335-42	7.1	11
41	Microvessel manifold for perfusion and media exchange in three-dimensional cell cultures. <i>Biomicrofluidics</i> , 2016 , 10, 054109	3.2	11
40	Small-molecule detection in thiol-yne nanocomposites via surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 12315-20	7.8	10
39	Hydrodynamic and electrical considerations in the design of a four-electrode impedance-based microfluidic device. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1347-58	4.4	10

38	Inclusion of ganglioside GM1 into liposome encapsulated hemoglobin does not extend circulation persistence at clinically relevant doses. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1994 , 22, 9-25		10
37	Continuous-Wave Stimulated Emission Depletion Microscope for Imaging Actin Cytoskeleton in Fixed and Live Cells. <i>Sensors</i> , 2015 , 15, 24178-90	3.8	9
36	Novel trifunctional carrier molecule for the fluorescent labeling of haptens. <i>Analytical Biochemistry</i> , 1991 , 193, 272-9	3.1	9
35	Fibrin gel enhances the antitumor effects of chimeric antigen receptor T cells in glioblastoma. <i>Science Advances</i> , 2021 , 7, eabg5841	14.3	9
34	Paper-based passive pumps to generate controllable whole blood flow through microfluidic devices. <i>Lab on A Chip</i> , 2019 , 19, 3787-3795	7.2	9
33	Microfluidic fabrication of polymeric and biohybrid fibers with predesigned size and shape. <i>Journal of Visualized Experiments</i> , 2014 , e50958	1.6	8
32	Crosslinkers Modify Affinity of Immobilized Carbohydrates for Cholera Toxin. <i>Sensor Letters</i> , 2007 , 5, 621-624	0.9	8
31	Scaffold-Mediated Static Transduction of T Cells for CAR-T Cell Therapy. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000275	10.1	7
30	High-Throughput Manufacture of 3D Fiber Scaffolds for Regenerative Medicine. <i>Tissue Engineering - Part C: Methods</i> , 2020 , 26, 364-374	2.9	7
29	Mechanical and Vascular Cues Synergistically Enhance Osteogenesis in Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2016 , 22, 997-1005	3.9	6
28	Liposome encapsulated hemoglobin: long-term storage stability and in vivo characterization. <i>Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology</i> , 1992 , 20, 619-26		6
27	The effects of protein extraction on the structure and filtration properties of renal basement membranes. <i>FEBS Journal</i> , 1980 , 111, 485-90		6
26	Incorporation of ¹⁸ Oxygen into Peptide Mixtures and Analysis with Multi-Dimensional Chromatography and Mass-Spectroscopy. <i>Analytical Letters</i> , 2007 , 40, 1864-1878	2.2	5
25	Immunoregulatory cell subsets in Goodpasture's syndrome: evidence for selective T suppressor-cell depletion during active autoimmune disease. <i>Journal of Clinical Immunology</i> , 1983 , 3, 368-74	5.7	5
24	Extremely high levels of natural killer cells in angioimmunoblastic lymphadenopathy. <i>Journal of Clinical Immunology</i> , 1983 , 3, 375-81	5.7	5
23	Cytogenetics and cell surface marker analysis in CML-1. Prediction of phenotype of acute phase transformation. <i>Leukemia Research</i> , 1985 , 9, 1093-8	2.7	5
22	Three-dimensional imaging of intact porcine cochlea using tissue clearing and custom-built light-sheet microscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 6181-6196	3.5	5
21	Nanosecond Time-Resolution Study of Gold Nanorod Rotation at the Liquid-Solid Interface. <i>ChemPhysChem</i> , 2016 , 17, 2218-24	3.2	5

20	Microfluidics: Microfluidic Strategies for Design and Assembly of Microfibers and Nanofibers with Tissue Engineering and Regenerative Medicine Applications (Adv. Healthcare Mater. 1/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 2-2	10.1	4
19	Adaptation of a Fiber-Optic Biosensor for Use in Environmental Monitoring. <i>ACS Symposium Series</i> , 1996 , 33-43	0.4	4
18	Cytogenetics and cell surface marker analysis in chronic myelocytic leukemia. II. Implications for patient management. <i>Cancer Genetics and Cytogenetics</i> , 1987 , 26, 25-37		4
17	Characterization of glass frit capillary pumps for microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	3
16	"Data characterizing microfabricated human blood vessels created via hydrodynamic focusing". <i>Data in Brief</i> , 2017 , 14, 156-162	1.2	3
15	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation.. <i>Bioelectricity</i> , 2021 , 3, 255-271	2	3
14	Bioinstructive implantable scaffolds for rapid in vivo manufacture and release of CAR-T cells.. <i>Nature Biotechnology</i> , 2022 ,	44.5	3
13	Environmental Immunosensing at the Naval Research Laboratory. <i>ACS Symposium Series</i> , 1996 , 46-55	0.4	2
12	The Stability and Shelf-Life of Liposome Encapsulated Hemoglobin: A Potential Blood Substitute. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 110, 153		2
11	Drug Detection Using the Flow Immunosensor. <i>ACS Symposium Series</i> , 1992 , 73-80	0.4	2
10	Strategies to Close the Gender Gap in Invention and Technology Commercialization. <i>Technology and Innovation</i> , 2018 , 19, 701-706	0.7	2
9	Dual Wavelength-Triggered Gold Nanorods for Anticancer Treatment. <i>Methods in Molecular Biology</i> , 2017 , 1570, 195-208	1.4	1
8	A simple cantilever system for measurement of flow rates in paper microfluidic devices. <i>Engineering Research Express</i> , 2019 , 1, 025019	0.9	1
7	Microfabrication: Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers (Adv. Funct. Mater. 6/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 697-697	15.6	1
6	Cross-linked Chitosan and Poly(allyl amine) Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		1
5	The clonal excess method for detecting B-cell lymphoma. <i>Clinical Immunology Newsletter</i> , 1982 , 3, 45-47		1
4	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. <i>ACS Sensors</i> , 2021 , 6, 985-994	9.2	1
3	New Biological Activities of Plant Proanthocyanidins. <i>ACS Symposium Series</i> , 2008 , 101-114	0.4	

2 The NAI Fellow Profile: An Interview With Dr. Frances Ligler. *Technology and Innovation*, **2018**, 19, 645-651.7

1 Synthesis of sonicated fibrin nanoparticles that modulate fibrin clot polymerization and enhance angiogenic responses. *Colloids and Surfaces B: Biointerfaces*, **2021**, 204, 111805

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