Frances S Ligler

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9531332/publications.pdf

Version: 2024-02-01

208 papers	13,504 citations	15466 65 h-index	25716 108 g-index
211 all docs	211 docs citations	211 times ranked	12383 citing authors

#	Article	IF	Citations
1	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, 8260-8265.	3.3	655
2	Transformable liquid-metal nanomedicine. Nature Communications, 2015, 6, 10066.	5.8	466
3	Use of thiol-terminal silanes and heterobifunctional crosslinkers for immobilization of antibodies on silica surfaces. Analytical Biochemistry, 1989, 178, 408-413.	1.1	366
4	A Microarray Immunoassay for Simultaneous Detection of Proteins and Bacteria. Analytical Chemistry, 2002, 74, 5681-5687.	3.2	323
5	Point-of-care biosensor systems for cancer diagnostics/prognostics. Biosensors and Bioelectronics, 2006, 21, 1932-1942.	5.3	307
6	Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells. Advanced Materials, 2019, 31, e1900192.	11.1	291
7	Array Biosensor for Simultaneous Identification of Bacterial, Viral, and Protein Analytes. Analytical Chemistry, 1999, 71, 3846-3852.	3.2	283
8	Array biosensor for detection of toxins. Analytical and Bioanalytical Chemistry, 2003, 377, 469-477.	1.9	268
9	Evanescent wave fluorescence biosensors. Biosensors and Bioelectronics, 2005, 20, 2470-2487.	5.3	260
10	An Array Immunosensor for Simultaneous Detection of Clinical Analytes. Analytical Chemistry, 1999, 71, 433-439.	3.2	243
11	Hypoxia and H₂O₂ Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. Nano Letters, 2017, 17, 733-739.	4.5	220
12	Perspective on Optical Biosensors and Integrated Sensor Systems. Analytical Chemistry, 2009, 81, 519-526.	3.2	217
13	The good, the bad, and the tiny: a review of microflow cytometry. Analytical and Bioanalytical Chemistry, 2008, 391, 1485-1498.	1.9	216
14	Interpenetrating networks based on gelatin methacrylamide and PEG formed using concurrent thiol click chemistries for hydrogel tissue engineering scaffolds. Biomaterials, 2014, 35, 1845-1856.	5.7	207
15	Synthetic beta cells for fusion-mediated dynamic insulin secretion. Nature Chemical Biology, 2018, 14, 86-93.	3.9	184
16	Antimicrobial Peptides for Detection of Bacteria in Biosensor Assays. Analytical Chemistry, 2005, 77, 6504-6508.	3.2	162
17	Review of analytical performance of COVID-19 detection methods. Analytical and Bioanalytical Chemistry, 2021, 413, 35-48.	1.9	161
18	Detection of Clostridium botulinum toxin A using a fiber optic-based biosensor. Analytical Biochemistry, 1992, 205, 306-312.	1.1	160

#	Article	IF	Citations
19	Simultaneous detection of six biohazardous agents using a planar waveguide array biosensor. Biosensors and Bioelectronics, 2000, 15, 579-589.	5.3	158
20	Nine-Analyte Detection Using an Array-Based Biosensor. Analytical Chemistry, 2002, 74, 6114-6120.	3.2	145
21	Detection of TNT in Water Using an Evanescent Wave Fiber-Optic Biosensor. Analytical Chemistry, 1995, 67, 2431-2435.	3.2	141
22	Multi-wavelength microflow cytometer using groove-generated sheath flow. Lab on A Chip, 2009, 9, 1942.	3.1	140
23	Microfluidic Strategies for Design and Assembly of Microfibers and Nanofibers with Tissue Engineering and Regenerative Medicine Applications. Advanced Healthcare Materials, 2015, 4, 11-28.	3.9	137
24	Antibody immobilization using heterobifunctional crosslinkers. Biosensors and Bioelectronics, 1997, 12, 1101-1106.	5.3	129
25	Demonstration of Four Immunoassay Formats Using the Array Biosensor. Analytical Chemistry, 2002, 74, 1061-1068.	3.2	128
26	The Array Biosensor: Portable, Automated Systems. Analytical Sciences, 2007, 23, 5-10.	0.8	128
27	A microfluidic mixer with grooves placed on the top and bottom of the channel. Lab on A Chip, 2005, 5, 524.	3.1	127
28	Array Biosensor for Detection of Ochratoxin A in Cereals and Beverages. Analytical Chemistry, 2005, 77, 148-154.	3.2	126
29	Programmable nanomedicine: synergistic and sequential drug delivery systems. Nanoscale, 2015, 7, 3381-3391.	2.8	126
30	Effectiveness of protein A for antibody immobilization for a fiber optic biosensor. Biosensors and Bioelectronics, 1997, 12, 329-336.	5.3	122
31	Detection of multiple toxic agents using a planar array immunosensor. Biosensors and Bioelectronics, 1998, 13, 407-415.	5.3	122
32	Continuous-flow immunosensor for detection of explosives. Analytical Chemistry, 1993, 65, 3561-3565.	3.2	119
33	New approach to producing patterned biomolecular assemblies. Journal of the American Chemical Society, 1992, 114, 4432-4433.	6.6	116
34	Fiber optic-based biosensor for ricin. Biosensors and Bioelectronics, 1997, 12, 937-945.	5.3	115
35	Evanescent wave fluorescence biosensors: Advances of the last decade. Biosensors and Bioelectronics, 2016, 76, 103-112.	5.3	115
36	Two simple and rugged designs for creating microfluidic sheath flow. Lab on A Chip, 2008, 8, 1097.	3.1	110

#	Article	IF	Citations
37	Design and evaluation of a Dean vortex-based micromixer. Lab on A Chip, 2004, 4, 663.	3.1	108
38	Real-time analysis of protein adsorption to a variety of thin films. Biosensors and Bioelectronics, 2004, 19, 1045-1055.	5.3	105
39	Rapid detection of foodborne contaminants using an Array Biosensor. Sensors and Actuators B: Chemical, 2006, 113, 599-607.	4.0	103
40	Quantitating Staphylococcal Enterotoxin B in Diverse Media Using a Portable Fiber-Optic Biosensor. Analytical Biochemistry, 1996, 233, 50-57.	1.1	102
41	Antimicrobial peptide-based array for Escherichia coli and Salmonella screening. Analytica Chimica Acta, 2006, 575, 9-15.	2.6	101
42	Multiplexed Detection of Bacteria and Toxins Using a Microflow Cytometer. Analytical Chemistry, 2009, 81, 5426-5432.	3.2	101
43	Detection ofCampylobacterandShigellaSpecies in Food Samples Using an Array Biosensor. Analytical Chemistry, 2004, 76, 433-440.	3.2	98
44	A Computational Reactionâ"Diffusion Model for the Analysis of Transport-Limited Kinetics. Analytical Chemistry, 1999, 71, 5405-5412.	3.2	97
45	Biosensor Detection of Botulinum Toxoid A and Staphylococcal Enterotoxin B in Food. Applied and Environmental Microbiology, 2005, 71, 5590-5592.	1.4	97
46	Integrating Waveguide Biosensor. Analytical Chemistry, 2002, 74, 713-719.	3.2	93
47	Detection of Salmonella enterica Serovar Typhimurium by Using a Rapid, Array-Based Immunosensor. Applied and Environmental Microbiology, 2004, 70, 152-158.	1.4	92
48	Plateletâ€Inspired Nanocells for Targeted Heart Repair After Ischemia/Reperfusion Injury. Advanced Functional Materials, 2019, 29, 1803567.	7.8	92
49	Kinetics of Antigen Binding to Arrays of Antibodies in Different Sized Spots. Analytical Chemistry, 2001, 73, 5518-5524.	3.2	89
50	A fiber optic biosensor: combination tapered fibers designed for improved signal acquisition. Biosensors and Bioelectronics, 1993, 8, 249-256.	5.3	88
51	On-Site Detection of TNT with a Portable Fiber Optic Biosensor. Environmental Science & Technology, 1997, 31, 837-841.	4.6	87
52	Detecting staphylococcal enterotoxin B using an automated fiber optic biosensor. Biosensors and Bioelectronics, 1999, 14, 163-170.	5.3	82
53	A cowpea mosaic virus nanoscaffold for multiplexed antibody conjugation: Application as an immunoassay tracer. Biosensors and Bioelectronics, 2006, 21, 1668-1673.	5.3	80
54	Multianalyte Detection Using a Capillary-Based Flow Immunosensor. Analytical Biochemistry, 1998, 255, 13-19.	1.1	79

#	Article	IF	Citations
55	Optofluidic characterization of marine algae using a microflow cytometer. Biomicrofluidics, 2011, 5, 32009-320099.	1.2	79
56	Multi-analyte explosive detection using a fiber optic biosensor. Analytica Chimica Acta, 1999, 399, 13-20.	2.6	78
57	Array biosensor: optical and fluidics systems. Biomedical Microdevices, 1999, 1, 139-153.	1.4	78
58	A simple sheath-flow microfluidic device for micro/nanomanufacturing: fabrication of hydrodynamically shaped polymer fibers. Lab on A Chip, 2009, 9, 3126.	3.1	76
59	Method for Printing Functional Protein Microarrays. BioTechniques, 2003, 34, 380-385.	0.8	75
60	Detection of Deoxynivalenol in Foods and Indoor Air Using an Array Biosensor. Environmental Science & Technology, 2006, 40, 2352-2356.	4.6	74
61	A continuous flow immunoassay for rapid and sensitive detection of small molecules. Journal of Immunological Methods, 1990, 135, 191-197.	0.6	73
62	Detection of bacterial toxins with monosaccharide arrays. Biosensors and Bioelectronics, 2006, 21, 1195-1201.	5.3	70
63	Organic Photodiodes for Biosensor Miniaturization. Analytical Chemistry, 2009, 81, 3455-3461.	3.2	69
64	Microflow Cytometer for optical analysis of phytoplankton. Biosensors and Bioelectronics, 2011, 26, 4263-4269.	5.3	69
65	Time-Dependent Model for Fluid Flow in Porous Materials with Multiple Pore Sizes. Analytical Chemistry, 2017, 89, 4377-4381.	3.2	67
66	Leveraging H₂O₂ Levels for Biomedical Applications. Advanced Biology, 2017, 1, e1700084.	3.0	66
67	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.	4.0	66
68	A Displacement Flow Immunosensor for Explosive Detection Using Microcapillaries. Analytical Chemistry, 1997, 69, 2779-2785.	3.2	65
69	Antimicrobial peptides as new recognition molecules for screening challenging species. Sensors and Actuators B: Chemical, 2007, 121, 150-157.	4.0	63
70	Bioinstructive implantable scaffolds for rapid in vivo manufacture and release of CAR-T cells. Nature Biotechnology, 2022, 40, 1250-1258.	9.4	63
71	Trace detection of explosives using a membrane-based displacement immunoassay. Journal of Immunological Methods, 2000, 246, 69-77.	0.6	62
72	Color changes in chitosan and poly(allyl amine) films upon metal binding. Thin Solid Films, 2003, 434, 250-257.	0.8	62

#	Article	IF	Citations
73	Detection of Staphylococcal Enterotoxin B in Spiked Food Samplesâ€. Journal of Food Protection, 2003, 66, 1851-1856.	0.8	62
74	Target delivery in a microfluidic immunosensor. Biosensors and Bioelectronics, 2007, 22, 2763-2767.	5.3	60
75	A comparison of imaging methods for use in an array biosensor. Biosensors and Bioelectronics, 2002, 17, 719-725.	5.3	59
76	Remote Sensing Using an Airborne Biosensor. Environmental Science & Technology, 1998, 32, 2461-2466.	4.6	58
77	Binding and Neutralization of Lipopolysaccharides by Plant Proanthocyanidins. Journal of Natural Products, 2007, 70, 1718-1724.	1.5	58
78	3D hydrodynamic focusing microfluidics for emerging sensing technologies. Biosensors and Bioelectronics, 2015, 67, 25-34.	5.3	57
79	Development of Uniform Chitosan Thin-Film Layers on Silicon Chips. Langmuir, 2001, 17, 5082-5084.	1.6	56
80	Array Biosensor for Toxin Detection: Continued Advances. Sensors, 2008, 8, 8361-8377.	2.1	56
81	Hydrodynamic focusingâ€"a versatile tool. Analytical and Bioanalytical Chemistry, 2012, 402, 325-335.	1.9	56
82	A portable automated multianalyte biosensor. Talanta, 2005, 65, 1078-1085.	2.9	53
83	Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers. Advanced Functional Materials, 2013, 23, 698-704.	7.8	52
84	Fiber-Optic Biosensor for the Detection of Hazardous Materials. ImmunoMethods, 1993, 3, 122-127.	0.8	51
85	Point-of-care diagnostics for niche applications. Biotechnology Advances, 2016, 34, 161-176.	6.0	50
86	Lighting Up Biosensors: Now and the Decade To Come. Analytical Chemistry, 2019, 91, 8732-8738.	3.2	50
87	The Role of Receptor IgM and IgD in Determining Triggering and Induction of Tolerance in Murine B Cells1. Immunological Reviews, 1979, 43, 69-95.	2.8	48
88	Multiplexed measurement of serum antibodies using an array biosensor. Biosensors and Bioelectronics, 2006, 21, 1880-1886.	5.3	48
89	Multiplexed magnetic microsphere immunoassays for detection of pathogens in foods. Sensing and Instrumentation for Food Quality and Safety, 2010, 4, 73-81.	1.5	48
90	Optimization of antibody-conjugated magnetic nanoparticles for target preconcentration and immunoassays. Analytical Biochemistry, 2011, 410, 124-132.	1.1	48

#	Article	IF	Citations
91	Capillary-Based Displacement Flow Immunosensor. Analytical Chemistry, 1997, 69, 1961-1964.	3.2	47
92	Toolbox for the design of optimized microfluidic components. Lab on A Chip, 2006, 6, 540.	3.1	47
93	Prevention of Nonspecific Bacterial Cell Adhesion in Immunoassays by Use of Cranberry Juice. Analytical Chemistry, 2006, 78, 853-857.	3.2	45
94	Fabrication of a capillary immunosensor in polymethyl methacrylate. Biosensors and Bioelectronics, 2002, 17, 95-103.	5.3	44
95	Kinetics of antibody binding at solid-liquid interfaces in flow. Journal of Immunological Methods, 1992, 156, 223-230.	0.6	42
96	Design and fabrication of uniquely shaped thiolâ€“ene microfibers using a two-stage hydrodynamic focusing design. Lab on A Chip, 2013, 13, 3105.	3.1	42
97	The Effect of Tapering the Optical Fiber on Evanescent Wave Measurements. Analytical Letters, 1992, 25, 1183-1199.	1.0	41
98	A dual wavelength-activatable gold nanorod complex for synergistic cancer treatment. Nanoscale, 2015, 7, 12096-12103.	2.8	41
99	Signal amplification strategies for microfluidic immunoassays. TrAC - Trends in Analytical Chemistry, 2016, 79, 326-334.	5.8	41
100	UV polymerization of hydrodynamically shaped fibers. Lab on A Chip, 2011, 11, 1157.	3.1	39
101	In Situ Phytoplankton Analysis: Thereâ€™s Plenty of Room at the Bottom. Analytical Chemistry, 2012, 84, 839-850.	3.2	39
102	Acute lymphocytic leukemic transformation of chronic lymphocytic leukemia: Substantiation by flow cytometry. American Journal of Hematology, 1981, 10, 391-398.	2.0	38
103	Multiplexed Detection of Mycotoxins in Foods with a Regenerable Arrayâ€. Journal of Food Protection, 2006, 69, 3047-3051.	0.8	38
104	A homogeneous immunoassay for the mycotoxin T-2 utilizing liposomes, monoclonal antibodies, and complement. Analytical Biochemistry, 1987, 163, 369-375.	1.1	37
105	Detection of Cocaine Using the Flow Immunosensor. Analytical Letters, 1992, 25, 1999-2019.	1.0	37
106	Hydrodynamic Shaping, Polymerization, and Subsequent Modification of Thiol Click Fibers. ACS Applied Materials & Interfaces, 2013, 5, 114-119.	4.0	37
107	Microfabricated blood vessels undergo neoangiogenesis. Biomaterials, 2017, 138, 142-152.	5.7	37
108	Spinning magnetic trap for automated microfluidic assay systems. Lab on A Chip, 2012, 12, 1793.	3.1	36

#	Article	IF	Citations
109	Fibrin gel enhances the antitumor effects of chimeric antigen receptor T cells in glioblastoma. Science Advances, 2021, 7, eabg5841.	4.7	35
110	Regeneration of immobilized antibodies on fiber optic probes. Biosensors and Bioelectronics, 1994, 9, 585-592.	5.3	34
111	Rapid Analytical Methods for On-Site Triage for Traumatic Brain Injury. Annual Review of Analytical Chemistry, 2012, 5, 35-56.	2.8	34
112	Catch and Release: Integrated System for Multiplexed Detection of Bacteria. Analytical Chemistry, 2013, 85, 4944-4950.	3.2	34
113	Colored Thin Films for Specific Metal Ion Detection. Environmental Science & Technology, 2004, 38, 4409-4413.	4.6	33
114	Fibrin Nanoparticles Coupled with Keratinocyte Growth Factor Enhance the Dermal Wound-Healing Rate. ACS Applied Materials & Interfaces, 2019, 11, 3771-3780.	4.0	33
115	Application of Broad-Spectrum, Sequence-Based Pathogen Identification in an Urban Population. PLoS ONE, 2007, 2, e419.	1.1	33
116	Effect of antibody density on the displacement kinetics of a flow immunoassay. Journal of Immunological Methods, 1994, 168, 227-234.	0.6	32
117	Dynamic reversibility of hydrodynamic focusing for recycling sheath fluid. Lab on A Chip, 2010, 10, 1952.	3.1	31
118	A membrane-based displacement flow immunoassay. Biosensors and Bioelectronics, 1998, 13, 939-944.	5.3	30
119	Microfluidic fabrication of multiaxial microvessels via hydrodynamic shaping. RSC Advances, 2014, 4, 23440-23446.	1.7	30
120	A fiber-optic evanescent-wave immunosensor for large molecules. Sensors and Actuators B: Chemical, 1993, 11, 239-243.	4.0	29
121	Calibration of Biosensor Response Using Simultaneous Evanescent Wave Excitation of Cyanine-Labeled Capture Antibodies and Antigens. Analytical Biochemistry, 1995, 232, 73-78.	1.1	29
122	Voltage-induced inhibition of antigen-antibody binding at conducting optical waveguides. Biosensors and Bioelectronics, 2002, 17, 489-494.	5.3	29
123	Assessment Of Heterogeneity in Antibodyâ^'Antigen Displacement Reactions. Analytical Chemistry, 1997, 69, 175-182.	3.2	28
124	Immobilized Proanthocyanidins for the Capture of Bacterial Lipopolysaccharides. Analytical Chemistry, 2008, 80, 2113-2117.	3.2	28
125	Antimicrobial Peptides: New Recognition Molecules for Detecting Botulinum Toxins. Sensors, 2007, 7, 2808-2824.	2.1	27
126	A hard microflow cytometer using groove-generated sheath flow for multiplexed bead and cell assays. Analytical and Bioanalytical Chemistry, 2010, 398, 1871-1881.	1.9	27

#	Article	IF	Citations
127	Hydrodynamic focusing of conducting fluids for conductivity-based biosensors. Biosensors and Bioelectronics, 2010, 25, 1363-1369.	5.3	26
128	Use of the USDT flow immunosensor for quantitation of benzoylecgonine in urine. Biosensors and Bioelectronics, 1996, 11, 725-734.	5.3	25
129	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.	2.6	25
130	Utilization of microparticles in next-generation assays for microflow cytometers. Analytical and Bioanalytical Chemistry, 2010, 398, 2373-2382.	1.9	24
131	Review of recent developments in stimulated emission depletion microscopy: applications on cell imaging. Journal of Biomedical Optics, 2014, 19, 080901.	1.4	24
132	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation. Bioelectricity, 2021, 3, 255-271.	0.6	24
133	Immobilization of acetylcholinesterase on solid surfaces: chemistry and activity studies. Sensors and Actuators B: Chemical, 1991, 3, 311-317.	4.0	23
134	Laser ablation of micropores for formation of artificial planar lipid bilayers. Biomedical Microdevices, 2007, 9, 863-868.	1.4	23
135	Impact of cranberry on Escherichia coli cellular surface characteristics. Biochemical and Biophysical Research Communications, 2008, 377, 992-994.	1.0	23
136	Hydrodynamically directed multiscale assembly of shaped polymer fibers. Soft Matter, 2012, 8, 6656.	1.2	23
137	Self-folded redox/acid dual-responsive nanocarriers for anticancer drug delivery. Chemical Communications, 2014, 50, 15105-15108.	2.2	23
138	Facile Fabrication of Color Tunable Film and Fiber Nanocomposites via Thiol Click Chemistry. Macromolecules, 2014, 47, 695-704.	2.2	23
139	Home diagnostics to music. Nature, 2008, 456, 178-179.	13.7	22
140	Iron chelation by cranberry juice and its impact on Escherichia coli growth. BioFactors, 2011, 37, 121-130.	2.6	22
141	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, 124-130.	5.3	21
142	Parameters affecting the shape of a hydrodynamically focused stream. Microfluidics and Nanofluidics, 2011, 11, 119-128.	1.0	21
143	Modular pumps as programmable hydraulic batteries for microfluidic devices. Technology, 2017, 05, 21-30.	1.4	21
144	Microfluidics for the study of mechanotransduction. Journal Physics D: Applied Physics, 2020, 53, 224004.	1.3	21

#	Article	IF	Citations
145	Fluidics Cube for Biosensor Miniaturization. Analytical Chemistry, 2001, 73, 3776-3780.	3.2	20
146	A combinatorial approach to microfluidic mixing. Journal of Micromechanics and Microengineering, 2008, 18, 115019.	1.5	20
147	Three-dimensional imaging of intact porcine cochlea using tissue clearing and custom-built light-sheet microscopy. Biomedical Optics Express, 2020, 11, 6181.	1.5	20
148	Use of three longer-wavelength fluorophores with the fiber-optic biosensor. Sensors and Actuators B: Chemical, 1995, 29, 25-30.	4.0	19
149	Binding kinetics of immobilized antibodies in a flow immunosensor. Sensors and Actuators B: Chemical, 1995, 29, 72-78.	4.0	19
150	Nanomaterials in Analytical Chemistry. Analytical Chemistry, 2013, 85, 11161-11162.	3.2	18
151	Photothermal Therapy: Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells (Adv. Mater. 23/2019). Advanced Materials, 2019, 31, 1970166.	11.1	18
152	A fiber optic biosensor for multianalyte detection: importance of preventing fluorophore aggregation. Sensors and Actuators B: Chemical, 1998, 51, 46-51.	4.0	16
153	Dissociation Rate Kinetics in a Solid-Phase Flow Immunoassay. Analytical Letters, 1998, 31, 1663-1675.	1.0	16
154	A liquid crystal pixel array for signal discrimination in array biosensors. Biosensors and Bioelectronics, 2000, 15, 417-421.	5.3	16
155	Paper-based passive pumps to generate controllable whole blood flow through microfluidic devices. Lab on A Chip, 2019, 19, 3787-3795.	3.1	16
156	Fabrication and Characterization of Silicon Micro-Funnels and Tapered Micro-Channels for Stochastic Sensing Applications. Sensors, 2008, 8, 3848-3872.	2.1	15
157	Effect of diffusion on impedance measurements in a hydrodynamic flow focusing sensor. Lab on A Chip, 2010, 10, 2787.	3.1	15
158	Simultaneous assay for ten bacteria and toxins in spiked clinical samples using a microflow cytometer. Analytical and Bioanalytical Chemistry, 2013, 405, 5611-5614.	1.9	15
159	A temperature microsensor for measuring laser-induced heating in gold nanorods. Analytical and Bioanalytical Chemistry, 2015, 407, 719-725.	1.9	15
160	Scaffoldâ€Mediated Static Transduction of T Cells for CARâ€T Cell Therapy. Advanced Healthcare Materials, 2020, 9, e2000275.	3.9	15
161	Continuous Flow Displacement Immunosensors: A Computational Study. Analytical Biochemistry, 2000, 287, 234-242.	1.1	14
162	Diagnosis on disc. Nature, 2006, 440, 159-160.	13.7	14

#	Article	IF	Citations
163	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. Analytical Letters, 2007, 40, 3219-3231.	1.0	14
164	Attachment of plastic fluidic components to glass sensing surfaces. Biosensors and Bioelectronics, 2002, 17, 105-110.	5.3	13
165	Combination of Immunosensor Detection with Viability Testing and Confirmation Using the Polymerase Chain Reaction and Culture. Analytical Chemistry, 2007, 79, 140-146.	3.2	13
166	Small-Molecule Detection in Thiolâ€“Yne Nanocomposites via Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2014, 86, 12315-12320.	3.2	13
167	Monocyte markers and the common acute lymphoblastic leukemia antigen on chronic lymphocytic leukemia cells. American Journal of Hematology, 1983, 15, 335-342.	2.0	12
168	Inclusion of Ganglioside GM1Into Liposome Encapsulated Hemoglobin Does not Extend Circulation Persistence at Clinically Relevant Doses. Artificial Cells, Blood Substitutes, and Biotechnology, 1994, 22, 9-25.	0.9	12
169	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.	4.0	12
170	Mechanical and Vascular Cues Synergistically Enhance Osteogenesis in Human Mesenchymal Stem Cells. Tissue Engineering - Part A, 2016, 22, 997-1005.	1.6	12
171	High-Throughput Manufacture of 3D Fiber Scaffolds for Regenerative Medicine. Tissue Engineering - Part C: Methods, 2020, 26, 364-374.	1.1	12
172	Novel trifunctional carrier molecule for the fluorescent labeling of haptens. Analytical Biochemistry, 1991, 193, 272-279.	1.1	11
173	Continuous-Wave Stimulated Emission Depletion Microscope for Imaging Actin Cytoskeleton in Fixed and Live Cells. Sensors, 2015, 15, 24178-24190.	2.1	11
174	Microvessel manifold for perfusion and media exchange in three-dimensional cell cultures. Biomicrofluidics, 2016, 10, 054109.	1.2	11
175	Hydrodynamic and electrical considerations in the design of a four-electrode impedance-based microfluidic device. Analytical and Bioanalytical Chemistry, 2011, 400, 1347-1358.	1.9	10
176	Bispecific antibodies, nanoparticles and cells: bringing the right cells to get the job done. Expert Opinion on Biological Therapy, 2015, 15, 1251-1255.	1.4	10
177	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, 619-626.	0.2	8
178	Microfluidic Fabrication of Polymeric and Biohybrid Fibers with Predesigned Size and Shape. Journal of Visualized Experiments, 2014, , e50958.	0.2	8
179	Crosslinkers Modify Affinity of Immobilized Carbohydrates for Cholera Toxin. Sensor Letters, 2007, 5, 621-624.	0.4	8
180	Incorporation of18Oxygen into Peptide Mixtures and Analysis with Multiâ€Ðimensional Chromatography and Massâ€Špectroscopy. Analytical Letters, 2007, 40, 1864-1878.	1.0	7

#	Article	IF	Citations
181	Chemical and biological detection. Chemical Society Reviews, 2013, 42, 8581.	18.7	7
182	The Efects of Protein Extraction on the Structure and Filtration Properties of Renal Basement Membranes. FEBS Journal, 1980, 111, 485-490.	0.2	6
183	Adaptation of a Fiber-Optic Biosensor for Use in Environmental Monitoring. ACS Symposium Series, 1996, , 33-43.	0.5	6
184	Multilayer microfluidic platform for the study of luminal, transmural, and interstitial flow. Biofabrication, 2022, 14, 025007.	3.7	6
185	Immunoregulatory cell subsets in Goodpasture's syndrome: Evidence for selective T suppressor-cell depletion during active autoimmune disease. Journal of Clinical Immunology, 1983, 3, 368-374.	2.0	5
186	Extremely high levels of natural killer cells in angioimmunoblastic lymphadenopathy. Journal of Clinical Immunology, 1983, 3, 375-381.	2.0	5
187	Cytogenetics and cell surface marker analysis in CML â€" 1. Prediction of phenotype of acute phase transformation. Leukemia Research, 1985, 9, 1093-1098.	0.4	5
188	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.	3.9	5
189	Nanosecond Timeâ€Resolution Study of Gold Nanorod Rotation at the Liquidâ€"Solid Interface. ChemPhysChem, 2016, 17, 2218-2224.	1.0	5
190	Strategies to Close the Gender Gap in Invention and Technology Commercialization. Technology and Innovation, 2018, 19, 701-706.	0.2	5
191	Characterization of glass frit capillary pumps for microfluidic devices. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	5
192	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. ACS Sensors, 2021, 6, 985-994.	4.0	5
193	Cytogenetics and cell surface marker analysis in chronic myelocytic leukemia. II. Implications for patient management. Cancer Genetics and Cytogenetics, 1987, 26, 25-37.	1.0	4
194	The Scope of Analytical Chemistry. Analytical Chemistry, 2015, 87, 6425-6425.	3.2	4
195	â€œData characterizing microfabricated human blood vessels created via hydrodynamic focusingâ€• Data in Brief, 2017, 14, 156-162.	0.5	4
196	Drug Detection Using the Flow Immunosensor. ACS Symposium Series, 1992, , 73-80.	0.5	3
197	The Stability and Shelf-Life of Liposome Encapsulated Hemoglobin: A Potential Blood Substitute. Materials Research Society Symposia Proceedings, 1987, 110, 153.	0.1	2
198	Environmental Immunosensing at the Naval Research Laboratory. ACS Symposium Series, 1996, , 46-55.	0.5	2

#	Article	IF	Citations
199	Microfabrication: Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers (Adv. Funct. Mater. 6/2013). Advanced Functional Materials, 2013, 23, 697-697.	7.8	2
200	A simple cantilever system for measurement of flow rates in paper microfluidic devices. Engineering Research Express, 2019, 1, 025019.	0.8	2
201	Virus Detection: What Were We Doing before COVID-19 Changed the World?. ACS Sensors, 2020, 5, 1503-1504.	4.0	2
202	The clonal excess method for detecting B-cell lymphoma. Clinical Immunology Newsletter, 1982, 3, 45-47.	0.1	1
203	Cross-linked Chitosan and Poly(allyl amine) Thin Films. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	1
204	Dual Wavelength-Triggered Gold Nanorods for Anticancer Treatment. Methods in Molecular Biology, 2017, 1570, 195-208.	0.4	1
205	Characterizing the swelling of gelatin methacrylamide and effects on microscale tissue scaffold fabrication. , 2017, , .		1
206	Synthesis of sonicated fibrin nanoparticles that modulate fibrin clot polymerization and enhance angiogenic responses. Colloids and Surfaces B: Biointerfaces, 2021, 204, 111805.	2.5	1
207	New Biological Activities of Plant Proanthocyanidins. ACS Symposium Series, 2008, , 101-114.	0.5	0
208	The NAI Fellow Profile: An Interview With Dr. Frances Ligler. Technology and Innovation, 2018, 19, 645-651.	0.2	0