

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

15504

65
h-index

25787

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.	7.1	655
2	Transformable liquid-metal nanomedicine. Nature Communications, 2015, 6, 10066.	12.8	466
3	Use of thiol-terminal silanes and heterobifunctional crosslinkers for immobilization of antibodies on silica surfaces. Analytical Biochemistry, 1989, 178, 408-413.	2.4	366
4	A Microarray Immunoassay for Simultaneous Detection of Proteins and Bacteria. Analytical Chemistry, 2002, 74, 5681-5687.	6.5	323
5	Point-of-care biosensor systems for cancer diagnostics/prognostics. Biosensors and Bioelectronics, 2006, 21, 1932-1942.	10.1	307
6	Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells. Advanced Materials, 2019, 31, e1900192.	21.0	291
7	Array Biosensor for Simultaneous Identification of Bacterial, Viral, and Protein Analytes. Analytical Chemistry, 1999, 71, 3846-3852.	6.5	283
8	Array biosensor for detection of toxins. Analytical and Bioanalytical Chemistry, 2003, 377, 469-477.	3.7	268
9	Evanescent wave fluorescence biosensors. Biosensors and Bioelectronics, 2005, 20, 2470-2487.	10.1	260
10	An Array Immunosensor for Simultaneous Detection of Clinical Analytes. Analytical Chemistry, 1999, 71, 433-439.	6.5	243
11	Hypoxia and H_2O_2 Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. Nano Letters, 2017, 17, 733-739.	9.1	220
12	Perspective on Optical Biosensors and Integrated Sensor Systems. Analytical Chemistry, 2009, 81, 519-526.	6.5	217
13	The good, the bad, and the tiny: a review of microflow cytometry. Analytical and Bioanalytical Chemistry, 2008, 391, 1485-1498.	3.7	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.	11.4	207
15	Synthetic beta cells for fusion-mediated dynamic insulin secretion. Nature Chemical Biology, 2018, 14, 86-93.	8.0	184
16	Antimicrobial Peptides for Detection of Bacteria in Biosensor Assays. Analytical Chemistry, 2005, 77, 6504-6508.	6.5	162
17	Review of analytical performance of COVID-19 detection methods. Analytical and Bioanalytical Chemistry, 2021, 413, 35-48.	3.7	161
18	Detection of Clostridium botulinum toxin A using a fiber optic-based biosensor. Analytical Biochemistry, 1992, 205, 306-312.	2.4	160

#	ARTICLE	IF	CITATIONS
19	Simultaneous detection of six biohazardous agents using a planar waveguide array biosensor. Biosensors and Bioelectronics, 2000, 15, 579-589.	10.1	158
20	Nine-Analyte Detection Using an Array-Based Biosensor. Analytical Chemistry, 2002, 74, 6114-6120.	6.5	145
21	Detection of TNT in Water Using an Evanescent Wave Fiber-Optic Biosensor. Analytical Chemistry, 1995, 67, 2431-2435.	6.5	141
22	Multi-wavelength microflow cytometer using groove-generated sheath flow. Lab on A Chip, 2009, 9, 1942.	6.0	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.	7.6	137
24	Antibody immobilization using heterobifunctional crosslinkers. Biosensors and Bioelectronics, 1997, 12, 1101-1106.	10.1	129
25	Demonstration of Four Immunoassay Formats Using the Array Biosensor. Analytical Chemistry, 2002, 74, 1061-1068.	6.5	128
26	The Array Biosensor: Portable, Automated Systems. Analytical Sciences, 2007, 23, 5-10.	1.6	128
27	A microfluidic mixer with grooves placed on the top and bottom of the channel. Lab on A Chip, 2005, 5, 524.	6.0	127
28	Array Biosensor for Detection of Ochratoxin A in Cereals and Beverages. Analytical Chemistry, 2005, 77, 148-154.	6.5	126
29	Programmable nanomedicine: synergistic and sequential drug delivery systems. Nanoscale, 2015, 7, 3381-3391.	5.6	126
30	Effectiveness of protein A for antibody immobilization for a fiber optic biosensor. Biosensors and Bioelectronics, 1997, 12, 329-336.	10.1	122
31	Detection of multiple toxic agents using a planar array immunosensor. Biosensors and Bioelectronics, 1998, 13, 407-415.	10.1	122
32	Continuous-flow immunosensor for detection of explosives. Analytical Chemistry, 1993, 65, 3561-3565.	6.5	119
33	New approach to producing patterned biomolecular assemblies. Journal of the American Chemical Society, 1992, 114, 4432-4433.	13.7	116
34	Fiber optic-based biosensor for ricin. Biosensors and Bioelectronics, 1997, 12, 937-945.	10.1	115
35	Evanescent wave fluorescence biosensors: Advances of the last decade. Biosensors and Bioelectronics, 2016, 76, 103-112.	10.1	115
36	Two simple and rugged designs for creating microfluidic sheath flow. Lab on A Chip, 2008, 8, 1097.	6.0	110

#	ARTICLE	IF	CITATIONS
37	Design and evaluation of a Dean vortex-based micromixer. Lab on A Chip, 2004, 4, 663.	6.0	108
38	Real-time analysis of protein adsorption to a variety of thin films. Biosensors and Bioelectronics, 2004, 19, 1045-1055.	10.1	105
39	Rapid detection of foodborne contaminants using an Array Biosensor. Sensors and Actuators B: Chemical, 2006, 113, 599-607.	7.8	103
40	Quantitating Staphylococcal Enterotoxin B in Diverse Media Using a Portable Fiber-Optic Biosensor. Analytical Biochemistry, 1996, 233, 50-57.	2.4	102
41	Antimicrobial peptide-based array for Escherichia coli and Salmonella screening. Analytica Chimica Acta, 2006, 575, 9-15.	5.4	101
42	Multiplexed Detection of Bacteria and Toxins Using a Microflow Cytometer. Analytical Chemistry, 2009, 81, 5426-5432.	6.5	101
43	Detection of Campylobacter and Shigella Species in Food Samples Using an Array Biosensor. Analytical Chemistry, 2004, 76, 433-440.	6.5	98
44	A Computational Reaction-Diffusion Model for the Analysis of Transport-Limited Kinetics. Analytical Chemistry, 1999, 71, 5405-5412.	6.5	97
45	Biosensor Detection of Botulinum Toxin A and Staphylococcal Enterotoxin B in Food. Applied and Environmental Microbiology, 2005, 71, 5590-5592.	3.1	97
46	Integrating Waveguide Biosensor. Analytical Chemistry, 2002, 74, 713-719.	6.5	93
47	Detection of Salmonella enterica Serovar Typhimurium by Using a Rapid, Array-Based Immunosensor. Applied and Environmental Microbiology, 2004, 70, 152-158.	3.1	92
48	Platelet-Inspired Nanocells for Targeted Heart Repair After Ischemia/Reperfusion Injury. Advanced Functional Materials, 2019, 29, 1803567.	14.9	92
49	Kinetics of Antigen Binding to Arrays of Antibodies in Different Sized Spots. Analytical Chemistry, 2001, 73, 5518-5524.	6.5	89
50	A fiber optic biosensor: combination tapered fibers designed for improved signal acquisition. Biosensors and Bioelectronics, 1993, 8, 249-256.	10.1	88
51	On-Site Detection of TNT with a Portable Fiber Optic Biosensor. Environmental Science & Technology, 1997, 31, 837-841.	10.0	87
52	Detecting staphylococcal enterotoxin B using an automated fiber optic biosensor. Biosensors and Bioelectronics, 1999, 14, 163-170.	10.1	82
53	A cowpea mosaic virus nanoscaffold for multiplexed antibody conjugation: Application as an immunoassay tracer. Biosensors and Bioelectronics, 2006, 21, 1668-1673.	10.1	80
54	Multianalyte Detection Using a Capillary-Based Flow Immunosensor. Analytical Biochemistry, 1998, 255, 13-19.	2.4	79

#	ARTICLE	IF	CITATIONS
55	Optofluidic characterization of marine algae using a microflow cytometer. <i>Biomicrofluidics</i> , 2011, 5, 32009-320099.	2.4	79
56	Multi-analyte explosive detection using a fiber optic biosensor. <i>Analytica Chimica Acta</i> , 1999, 399, 13-20.	5.4	78
57	Array biosensor: optical and fluidics systems. <i>Biomedical Microdevices</i> , 1999, 1, 139-153.	2.8	78
58	A simple sheath-flow microfluidic device for micro/nanomanufacturing: fabrication of hydrodynamically shaped polymer fibers. <i>Lab on A Chip</i> , 2009, 9, 3126.	6.0	76
59	Method for Printing Functional Protein Microarrays. <i>BioTechniques</i> , 2003, 34, 380-385.	1.8	75
60	Detection of Deoxynivalenol in Foods and Indoor Air Using an Array Biosensor. <i>Environmental Science & Technology</i> , 2006, 40, 2352-2356.	10.0	74
61	A continuous flow immunoassay for rapid and sensitive detection of small molecules. <i>Journal of Immunological Methods</i> , 1990, 135, 191-197.	1.4	73
62	Detection of bacterial toxins with monosaccharide arrays. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1195-1201.	10.1	70
63	Organic Photodiodes for Biosensor Miniaturization. <i>Analytical Chemistry</i> , 2009, 81, 3455-3461.	6.5	69
64	Microflow Cytometer for optical analysis of phytoplankton. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4263-4269.	10.1	69
65	Time-Dependent Model for Fluid Flow in Porous Materials with Multiple Pore Sizes. <i>Analytical Chemistry</i> , 2017, 89, 4377-4381.	6.5	67
66	Leveraging H ₂ O ₂ Levels for Biomedical Applications. <i>Advanced Biology</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33088-33096.	8.0	66
68	A Displacement Flow Immunosensor for Explosive Detection Using Microcapillaries. <i>Analytical Chemistry</i> , 1997, 69, 2779-2785.	6.5	65
69	Antimicrobial peptides as new recognition molecules for screening challenging species. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 150-157.	7.8	63
70	Bioinstructive implantable scaffolds for rapid in vivo manufacture and release of CAR-T cells. <i>Nature Biotechnology</i> , 2022, 40, 1250-1258.	17.5	63
71	Trace detection of explosives using a membrane-based displacement immunoassay. <i>Journal of Immunological Methods</i> , 2000, 246, 69-77.	1.4	62
72	Color changes in chitosan and poly(allyl amine) films upon metal binding. <i>Thin Solid Films</i> , 2003, 434, 250-257.	1.8	62

#	ARTICLE	IF	CITATIONS
73	Detection of Staphylococcal Enterotoxin B in Spiked Food Samplesâ€¢. Journal of Food Protection, 2003, 66, 1851-1856.	1.7	62
74	Target delivery in a microfluidic immunosensor. Biosensors and Bioelectronics, 2007, 22, 2763-2767.	10.1	60
75	A comparison of imaging methods for use in an array biosensor. Biosensors and Bioelectronics, 2002, 17, 719-725.	10.1	59
76	Remote Sensing Using an Airborne Biosensor. Environmental Science & Technology, 1998, 32, 2461-2466.	10.0	58
77	Binding and Neutralization of Lipopolysaccharides by Plant Proanthocyanidins. Journal of Natural Products, 2007, 70, 1718-1724.	3.0	58
78	3D hydrodynamic focusing microfluidics for emerging sensing technologies. Biosensors and Bioelectronics, 2015, 67, 25-34.	10.1	57
79	Development of Uniform Chitosan Thin-Film Layers on Silicon Chips. Langmuir, 2001, 17, 5082-5084.	3.5	56
80	Array Biosensor for Toxin Detection: Continued Advances. Sensors, 2008, 8, 8361-8377.	3.8	56
81	Hydrodynamic focusingâ€¢a versatile tool. Analytical and Bioanalytical Chemistry, 2012, 402, 325-335.	3.7	56
82	A portable automated multianalyte biosensor. Talanta, 2005, 65, 1078-1085.	5.5	53
83	Rapid and Continuous Hydrodynamically Controlled Fabrication of Biohybrid Microfibers. Advanced Functional Materials, 2013, 23, 698-704.	14.9	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.	11.7	50
86	Lighting Up Biosensors: Now and the Decade To Come. Analytical Chemistry, 2019, 91, 8732-8738.	6.5	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.	6.0	48
88	Multiplexed measurement of serum antibodies using an array biosensor. Biosensors and Bioelectronics, 2006, 21, 1880-1886.	10.1	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.	2.4	48

#	ARTICLE	IF	CITATIONS
91	Capillary-Based Displacement Flow Immunosensor. <i>Analytical Chemistry</i> , 1997, 69, 1961-1964.	6.5	47
92	Toolbox for the design of optimized microfluidic components. <i>Lab on A Chip</i> , 2006, 6, 540.	6.0	47
93	Prevention of Nonspecific Bacterial Cell Adhesion in Immunoassays by Use of Cranberry Juice. <i>Analytical Chemistry</i> , 2006, 78, 853-857.	6.5	45
94	Fabrication of a capillary immunosensor in polymethyl methacrylate. <i>Biosensors and Bioelectronics</i> , 2002, 17, 95-103.	10.1	44
95	Kinetics of antibody binding at solid-liquid interfaces in flow. <i>Journal of Immunological Methods</i> , 1992, 156, 223-230.	1.4	42
96	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.	6.0	42
97	The Effect of Tapering the Optical Fiber on Evanescent Wave Measurements. <i>Analytical Letters</i> , 1992, 25, 1183-1199.	1.8	41
98	A dual wavelength-activatable gold nanorod complex for synergistic cancer treatment. <i>Nanoscale</i> , 2015, 7, 12096-12103.	5.6	41
99	Signal amplification strategies for microfluidic immunoassays. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 326-334.	11.4	41
100	UV polymerization of hydrodynamically shaped fibers. <i>Lab on A Chip</i> , 2011, 11, 1157.	6.0	39
101	<i>In Situ</i> Phytoplankton Analysis: There's Plenty of Room at the Bottom. <i>Analytical Chemistry</i> , 2012, 84, 839-850.	6.5	39
102	Acute lymphocytic leukemic transformation of chronic lymphocytic leukemia: Substantiation by flow cytometry. <i>American Journal of Hematology</i> , 1981, 10, 391-398.	4.1	38
103	Multiplexed Detection of Mycotoxins in Foods with a Regenerable Array. <i>Journal of Food Protection</i> , 2006, 69, 3047-3051.	1.7	38
104	A homogeneous immunoassay for the mycotoxin T-2 utilizing liposomes, monoclonal antibodies, and complement. <i>Analytical Biochemistry</i> , 1987, 163, 369-375.	2.4	37
105	Detection of Cocaine Using the Flow Immunosensor. <i>Analytical Letters</i> , 1992, 25, 1999-2019.	1.8	37
106	Hydrodynamic Shaping, Polymerization, and Subsequent Modification of Thiol Click Fibers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 114-119.	8.0	37
107	Microfabricated blood vessels undergo neoangiogenesis. <i>Biomaterials</i> , 2017, 138, 142-152.	11.4	37
108	Spinning magnetic trap for automated microfluidic assay systems. <i>Lab on A Chip</i> , 2012, 12, 1793.	6.0	36

#	ARTICLE	IF	CITATIONS
109	Fibrin gel enhances the antitumor effects of chimeric antigen receptor T cells in glioblastoma. <i>Science Advances</i> , 2021, 7, eabg5841.	10.3	35
110	Regeneration of immobilized antibodies on fiber optic probes. <i>Biosensors and Bioelectronics</i> , 1994, 9, 585-592.	10.1	34
111	Rapid Analytical Methods for On-Site Triage for Traumatic Brain Injury. <i>Annual Review of Analytical Chemistry</i> , 2012, 5, 35-56.	5.4	34
112	Catch and Release: Integrated System for Multiplexed Detection of Bacteria. <i>Analytical Chemistry</i> , 2013, 85, 4944-4950.	6.5	34
113	Colored Thin Films for Specific Metal Ion Detection. <i>Environmental Science & Technology</i> , 2004, 38, 4409-4413.	10.0	33
114	Fibrin Nanoparticles Coupled with Keratinocyte Growth Factor Enhance the Dermal Wound-Healing Rate. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3771-3780.	8.0	33
115	Application of Broad-Spectrum, Sequence-Based Pathogen Identification in an Urban Population. <i>PLoS ONE</i> , 2007, 2, e419.	2.5	33
116	Effect of antibody density on the displacement kinetics of a flow immunoassay. <i>Journal of Immunological Methods</i> , 1994, 168, 227-234.	1.4	32
117	Dynamic reversibility of hydrodynamic focusing for recycling sheath fluid. <i>Lab on A Chip</i> , 2010, 10, 1952.	6.0	31
118	A membrane-based displacement flow immunoassay. <i>Biosensors and Bioelectronics</i> , 1998, 13, 939-944.	10.1	30
119	Microfluidic fabrication of multiaxial microvessels via hydrodynamic shaping. <i>RSC Advances</i> , 2014, 4, 23440-23446.	3.6	30
120	A fiber-optic evanescent-wave immunosensor for large molecules. <i>Sensors and Actuators B: Chemical</i> , 1993, 11, 239-243.	7.8	29
121	Calibration of Biosensor Response Using Simultaneous Evanescent Wave Excitation of Cyanine-Labeled Capture Antibodies and Antigens. <i>Analytical Biochemistry</i> , 1995, 232, 73-78.	2.4	29
122	Voltage-induced inhibition of antigen-antibody binding at conducting optical waveguides. <i>Biosensors and Bioelectronics</i> , 2002, 17, 489-494.	10.1	29
123	Assessment Of Heterogeneity in Antibody~Antigen Displacement Reactions. <i>Analytical Chemistry</i> , 1997, 69, 175-182.	6.5	28
124	Immobilized Proanthocyanidins for the Capture of Bacterial Lipopolysaccharides. <i>Analytical Chemistry</i> , 2008, 80, 2113-2117.	6.5	28
125	Antimicrobial Peptides: New Recognition Molecules for Detecting Botulinum Toxins. <i>Sensors</i> , 2007, 7, 2808-2824.	3.8	27
126	A hard microflow cytometer using groove-generated sheath flow for multiplexed bead and cell assays. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1871-1881.	3.7	27

#	ARTICLE	IF	CITATIONS
127	Hydrodynamic focusing of conducting fluids for conductivity-based biosensors. Biosensors and Bioelectronics, 2010, 25, 1363-1369.	10.1	26
128	Use of the USDT flow immunosensor for quantitation of benzoylecgonine in urine. Biosensors and Bioelectronics, 1996, 11, 725-734.	10.1	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.	5.2	25
130	Utilization of microparticles in next-generation assays for microflow cytometers. Analytical and Bioanalytical Chemistry, 2010, 398, 2373-2382.	3.7	24
131	Review of recent developments in stimulated emission depletion microscopy: applications on cell imaging. Journal of Biomedical Optics, 2014, 19, 080901.	2.6	24
132	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation. Bioelectricity, 2021, 3, 255-271.	1.1	24
133	Immobilization of acetylcholinesterase on solid surfaces: chemistry and activity studies. Sensors and Actuators B: Chemical, 1991, 3, 311-317.	7.8	23
134	Laser ablation of micropores for formation of artificial planar lipid bilayers. Biomedical Microdevices, 2007, 9, 863-868.	2.8	23
135	Impact of cranberry on Escherichia coli cellular surface characteristics. Biochemical and Biophysical Research Communications, 2008, 377, 992-994.	2.1	23
136	Hydrodynamically directed multiscale assembly of shaped polymer fibers. Soft Matter, 2012, 8, 6656.	2.7	23
137	Self-folded redox/acid dual-responsive nanocarriers for anticancer drug delivery. Chemical Communications, 2014, 50, 15105-15108.	4.1	23
138	Facile Fabrication of Color Tunable Film and Fiber Nanocomposites via Thiol Click Chemistry. Macromolecules, 2014, 47, 695-704.	4.8	23
139	Home diagnostics to music. Nature, 2008, 456, 178-179.	27.8	22
140	Iron chelation by cranberry juice and its impact on Escherichia coli growth. BioFactors, 2011, 37, 121-130.	5.4	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.	10.1	21
142	Parameters affecting the shape of a hydrodynamically focused stream. Microfluidics and Nanofluidics, 2011, 11, 119-128.	2.2	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.	2.8	21

#	ARTICLE	IF	CITATIONS
145	Fluidics Cube for Biosensor Miniaturization. <i>Analytical Chemistry</i> , 2001, 73, 3776-3780.	6.5	20
146	A combinatorial approach to microfluidic mixing. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 115019.	2.6	20
147	Three-dimensional imaging of intact porcine cochlea using tissue clearing and custom-built light-sheet microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 6181.	2.9	20
148	Use of three longer-wavelength fluorophores with the fiber-optic biosensor. <i>Sensors and Actuators B: Chemical</i> , 1995, 29, 25-30.	7.8	19
149	Binding kinetics of immobilized antibodies in a flow immunosensor. <i>Sensors and Actuators B: Chemical</i> , 1995, 29, 72-78.	7.8	19
150	Nanomaterials in Analytical Chemistry. <i>Analytical Chemistry</i> , 2013, 85, 11161-11162.	6.5	18
151	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.	21.0	18
152	A fiber optic biosensor for multianalyte detection: importance of preventing fluorophore aggregation. <i>Sensors and Actuators B: Chemical</i> , 1998, 51, 46-51.	7.8	16
153	Dissociation Rate Kinetics in a Solid-Phase Flow Immunoassay. <i>Analytical Letters</i> , 1998, 31, 1663-1675.	1.8	16
154	A liquid crystal pixel array for signal discrimination in array biosensors. <i>Biosensors and Bioelectronics</i> , 2000, 15, 417-421.	10.1	16
155	Paper-based passive pumps to generate controllable whole blood flow through microfluidic devices. <i>Lab on A Chip</i> , 2019, 19, 3787-3795.	6.0	16
156	Fabrication and Characterization of Silicon Micro-Funnels and Tapered Micro-Channels for Stochastic Sensing Applications. <i>Sensors</i> , 2008, 8, 3848-3872.	3.8	15
157	Effect of diffusion on impedance measurements in a hydrodynamic flow focusing sensor. <i>Lab on A Chip</i> , 2010, 10, 2787.	6.0	15
158	Simultaneous assay for ten bacteria and toxins in spiked clinical samples using a microflow cytometer. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5611-5614.	3.7	15
159	A temperature microsensor for measuring laser-induced heating in gold nanorods. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 719-725.	3.7	15
160	Scaffold-Mediated Static Transduction of T Cells for CAR-T Cell Therapy. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000275.	7.6	15
161	Continuous Flow Displacement Immunosensors: A Computational Study. <i>Analytical Biochemistry</i> , 2000, 287, 234-242.	2.4	14
162	Diagnosis on disc. <i>Nature</i> , 2006, 440, 159-160.	27.8	14

#	ARTICLE	IF	CITATIONS
163	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. <i>Analytical Letters</i> , 2007, 40, 3219-3231.	1.8	14
164	Attachment of plastic fluidic components to glass sensing surfaces. <i>Biosensors and Bioelectronics</i> , 2002, 17, 105-110.	10.1	13
165	Combination of Immunosensor Detection with Viability Testing and Confirmation Using the Polymerase Chain Reaction and Culture. <i>Analytical Chemistry</i> , 2007, 79, 140-146.	6.5	13
166	Small-Molecule Detection in Thiol-ene Nanocomposites via Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 12315-12320.	6.5	13
167	Monocyte markers and the common acute lymphoblastic leukemia antigen on chronic lymphocytic leukemia cells. <i>American Journal of Hematology</i> , 1983, 15, 335-342.	4.1	12
168	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.	0.9	12
169	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.	7.8	12
170	Mechanical and Vascular Cues Synergistically Enhance Osteogenesis in Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2016, 22, 997-1005.	3.1	12
171	High-Throughput Manufacture of 3D Fiber Scaffolds for Regenerative Medicine. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 364-374.	2.1	12
172	Novel trifunctional carrier molecule for the fluorescent labeling of haptens. <i>Analytical Biochemistry</i> , 1991, 193, 272-279.	2.4	11
173	Continuous-Wave Stimulated Emission Depletion Microscope for Imaging Actin Cytoskeleton in Fixed and Live Cells. <i>Sensors</i> , 2015, 15, 24178-24190.	3.8	11
174	Microvessel manifold for perfusion and media exchange in three-dimensional cell cultures. <i>Biomicrofluidics</i> , 2016, 10, 054109.	2.4	11
175	Hydrodynamic and electrical considerations in the design of a four-electrode impedance-based microfluidic device. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1347-1358.	3.7	10
176	Bispecific antibodies, nanoparticles and cells: bringing the right cells to get the job done. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 1251-1255.	3.1	10
177	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, 619-626.	0.2	8
178	Microfluidic Fabrication of Polymeric and Biohybrid Fibers with Predesigned Size and Shape. <i>Journal of Visualized Experiments</i> , 2014, , e50958.	0.3	8
179	Crosslinkers Modify Affinity of Immobilized Carbohydrates for Cholera Toxin. <i>Sensor Letters</i> , 2007, 5, 621-624.	0.4	8
180	Incorporation of ^{18}O Oxygen into Peptide Mixtures and Analysis with Multi-Dimensional Chromatography and Mass Spectroscopy. <i>Analytical Letters</i> , 2007, 40, 1864-1878.	1.8	7

#	ARTICLE	IF	CITATIONS
181	Chemical and biological detection. Chemical Society Reviews, 2013, 42, 8581.	38.1	7
182	The Effects 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.	7.1	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.	3.8	5
186	Extremely high levels of natural killer cells in angioimmunoblastic lymphadenopathy. Journal of Clinical Immunology, 1983, 3, 375-381.	3.8	5
187	Cytogenetics and cell surface marker analysis in CML " 1. Prediction of phenotype of acute phase transformation. Leukemia Research, 1985, 9, 1093-1098.	0.8	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.	7.6	5
189	Nanosecond Time-Resolution Study of Gold Nanorod Rotation at the Liquid-Solid Interface. ChemPhysChem, 2016, 17, 2218-2224.	2.1	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.	2.2	5
192	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. ACS Sensors, 2021, 6, 985-994.	7.8	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.	6.5	4
195	"Data characterizing microfabricated human blood vessels created via hydrodynamic focusing" Data in Brief, 2017, 14, 156-162.	1.0	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.	14.9	2
200	A simple cantilever system for measurement of flow rates in paper microfluidic devices. Engineering Research Express, 2019, 1, 025019.	1.6	2
201	Virus Detection: What Were We Doing before COVID-19 Changed the World?. ACS Sensors, 2020, 5, 1503-1504.	7.8	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.	0.9	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.	5.0	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