Bruce K. Gale

List of Publications by Year in descending order

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190 papers 5,755 citations

39 h-index 95083 68 g-index

190 all docs

190 docs citations

190 times ranked 7188 citing authors

#	Article	IF	CITATIONS
1	Viscoelastic Particle Focusing and Separation in a Spiral Channel. Micromachines, 2022, 13, 361.	1.4	13
2	Separation of U87 glioblastoma cell-derived small and medium extracellular vesicles using elasto-inertial flow focusing (a spiral channel). Scientific Reports, 2022, 12, 6146.	1.6	8
3	Design of a hydrodynamic cavitation system for the extraction and detection of Escherichia coli (O157:H7) from ground beef. Sensors and Actuators B: Chemical, 2022, 369, 132370.	4.0	1
4	Modeling diffusion-based drug release inside a nerve conduit in vitro and in vivo validation study. Drug Delivery and Translational Research, 2021, 11, 154-168.	3.0	3
5	SARS-CoV-2 pandemic: a review of molecular diagnostic tools including sample collection and commercial response with associated advantages and limitations. Analytical and Bioanalytical Chemistry, 2021, 413, 49-71.	1.9	110
6	High efficiency rare sperm separation from biopsy samples in an inertial focusing device. Analyst, The, 2021, 146, 3368-3377.	1.7	14
7	Development and Testing of a Continuous Flow-Electrical-Split-Flow Lateral Transport Thin Separation System (Fl-El-SPLITT). Analytical Chemistry, 2021, 93, 2888-2897.	3.2	1
8	Compression of the vascular wall to create a friction fit in a vascular anastomotic coupler. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104681.	1.5	2
9	Experiment, Theory, and Simulation of a Flow-Electrical-Split Flow Thin Particle Separation Device. Journal of Chromatography A, 2021, 1659, 462634.	1.8	0
10	Entrapping bupivacaine-loaded emulsions in a crosslinked-hydrogel increases anesthetic effect and duration in a rat sciatic nerve block model. International Journal of Pharmaceutics, 2020, 588, 119703.	2.6	11
11	Optimization of a microfluidic spiral channel used to separate sperm from blood cells. Biomicrofluidics, 2020, 14, 064103.	1.2	8
12	Optimization of Dean flow microfluidic chip for sperm preparation for intrauterine insemination. Microfluidics and Nanofluidics, 2020, 24, 1.	1.0	10
13	An automated instrument for intrauterine insemination sperm preparation. Scientific Reports, 2020, 10, 21385.	1.6	9
14	Characterization of Human Glioblastoma versus Normal Plasma-Derived Extracellular Vesicles Preisolated by Differential Centrifugation Using Cyclical Electrical Field-Flow Fractionation. Analytical Chemistry, 2020, 92, 9866-9876.	3.2	8
15	Enhanced chromosome extraction from cells using a pinched flow microfluidic device. Biomedical Microdevices, 2020, 22, 25.	1.4	4
16	AUTHOR REPLY. Urology, 2020, 140, 75-76.	0.5	0
17	Microfluidic System for Rapid Isolation of Sperm From Microdissection TESE Specimens. Urology, 2020, 140, 70-76.	0.5	9
18	Characterization and differential retention of Q beta bacteriophage virus-like particles using cyclical electrical fielda \in "flow fractionation and asymmetrical flow fielda \in "flow fractionation. Analytical and Bioanalytical Chemistry, 2020, 412, 1563-1572.	1.9	16

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19	Towards a better testicular sperm extraction: novel sperm sorting technologies for non-motile sperm extracted by microdissection TESE. Translational Andrology and Urology, 2020, 9, S206-S214.	0.6	20
20	Characteristics of electrical field flow fractionation with chronoamperometry and electrochemical impedance. Micro and Nano Letters, 2020, 15 , $13-17$.	0.6	3
21	Size and shape based chromosome separation in the inertial focusing device. Biomicrofluidics, 2020, 14, 064109.	1.2	6
22	Designing a Novel Drug Delivering Nerve Guide: A Preliminary Study. Journal of Medical and Biological Engineering, 2019, 39, 294-304.	1.0	3
23	Local FK506 delivery at the direct nerve repair site improves nerve regeneration. Muscle and Nerve, 2019, 60, 613-620.	1.0	18
24	Flexible, transparent, sub-100 <i>$\hat{A}\mu$</i> m microfluidic channels with fused deposition modeling 3D-printed thermoplastic polyurethane. Journal of Micromechanics and Microengineering, 2019, 29, 095010.	1.5	61
25	A Tunable Microfluidic Device Enables Cargo Encapsulation by Cell―or Organelleâ€6ized Lipid Vesicles Comprising Asymmetric Lipid Bilayers. Advanced Biology, 2019, 3, 1900010.	3.0	10
26	Hydrodynamic cavitation for the rapid separation and electrochemical detection of Cryptosporidium parvum and Escherichia coli O157:H7 in ground beef. Biosensors and Bioelectronics, 2019, 135, 137-144.	5.3	12
27	Viscoelastic second normal stress difference dominated multiple-stream particle focusing in microfluidic channels. Applied Physics Letters, 2019, 115, 263702.	1.5	14
28	Drugâ€delivering nerve conduit improves regeneration in a criticalâ€sized gap. Biotechnology and Bioengineering, 2019, 116, 143-154.	1.7	23
29	Skeletal muscle interstitial fluid metabolomics at rest and associated with an exercise bout: application in rats and humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E43-E53.	1.8	22
30	Sperm-like-particle (SLP) behavior in curved microfluidic channels. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	18
31	A Biodegradable Vascular Coupling Device for End-to-End Anastomosis. Journal of Medical and Biological Engineering, 2018, 38, 715-723.	1.0	2
32	Microfluidicâ€"based sperm sorting & analysis for treatment of male infertility. Translational Andrology and Urology, 2018, 7, S336-S347.	0.6	66
33	Exosome Isolation: Cyclical Electrical Field Flow Fractionation in Low-Ionic-Strength Fluids. Analytical Chemistry, 2018, 90, 12783-12790.	3.2	44
34	A Review of Current Methods in Microfluidic Device Fabrication and Future Commercialization Prospects. Inventions, 2018, 3, 60.	1.3	309
35	Design and operation of a microfluidic chip for trapping, and off-chip collection of a few human sperm. Journal of Micromechanics and Microengineering, 2018, 28, 097002.	1.5	1
36	Instrumentation for xPCR Incorporating qPCR and HRMA. Analytical Chemistry, 2018, 90, 7190-7196.	3.2	23

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37	FDM 3D Printing of High-Pressure, Heat-Resistant, Transparent Microfluidic Devices. Analytical Chemistry, 2018, 90, 10450-10456.	3.2	91
38	Electrochemical Detection of E. coli O157:H7 in Water after Electrocatalytic and Ultraviolet Treatments Using a Polyguanine-Labeled Secondary Bead Sensor. Sensors, 2018, 18, 1497.	2.1	13
39	An automated system for rapid cellular extraction from live zebrafish embryos and larvae: Development and application to genotyping. PLoS ONE, 2018, 13, e0193180.	1.1	24
40	Optimization of micropatterned poly(lactic-co-glycolic acid) films for enhancing dorsal root ganglion cell orientation and extension. Neural Regeneration Research, 2018, 13, 105.	1.6	14
41	Controlled release of FK506 from micropatterned PLGA films: potential for application in peripheral nerve repair. Neural Regeneration Research, 2018, 13, 1247.	1.6	17
42	Vascular Coupling System for End-to-End Anastomosis: An In Vivo Pilot Case Report. Cardiovascular Engineering and Technology, 2017, 8, 91-95.	0.7	6
43	Use of a highly parallel microfluidic flow cell array to determine therapeutic drug dose response curves. Biomedical Microdevices, 2017, 19, 25.	1.4	2
44	Separation of sperm cells from samples containing high concentrations of white blood cells using a spiral channel. Biomicrofluidics, 2017, 11, 054106.	1.2	49
45	Novel drug delivering conduit for peripheral nerve regeneration. Journal of Neural Engineering, 2017, 14, 066011.	1.8	20
46	Effect Of combining FK506 and neurotrophins on neurite branching and elongation. Muscle and Nerve, 2017, 55, 570-581.	1.0	23
47	Experimental validation of an optofluidic platform for microbial single cell isolation and whole genome amplification for human microbiome applications. , 2017, , .		0
48	A disposable, continuous-flow polymerase chain reaction device: design, fabrication and evaluation. Biomedical Microdevices, 2016, 18, 62.	1.4	18
49	Controlled Delivery of FK506 to Improve Nerve Regeneration. Shock, 2016, 46, 154-159.	1.0	28
50	Optimization and Evaluation of a Vascular Coupling Device for End-to-End Anastomosis: A Finite-Element Analysis. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	2
51	Nerve growth factor released from a novel PLGA nerve conduit can improve axon growth. Journal of Micromechanics and Microengineering, 2016, 26, 045016.	1.5	11
52	Microfluidics: The future of microdissection TESE?. Systems Biology in Reproductive Medicine, 2016, 62, 161-170.	1.0	32
53	Modeling Carbon Nanotube Connectivity and Surface Activity in a Contact Lens Biofuel Cell. Electrochimica Acta, 2016, 203, 30-40.	2.6	36
54	Transdermal Delivery of siRNA through Microneedle Array. Scientific Reports, 2016, 6, 21422.	1.6	54

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55	Dean flow fractionation of chromosomes. , 2016, , .		O
56	Biased cyclical electrical field-flow fractionation for separation of submicron particles. Analytical and Bioanalytical Chemistry, 2016, 408, 855-863.	1.9	10
57	Photocatalytic microfluidic reactors utilizing titania nanotubes on titanium mesh for degradation of organic and biological contaminants. Journal of Environmental Chemical Engineering, 2016, 4, 657-663.	3.3	19
58	Effect of Ionic and Nonionic Carriers in Electrical Field-Flow Fractionation. Analytical Chemistry, 2016, 88, 1794-1803.	3.2	10
59	Particle Based Modeling of Electrical Field Flow Fractionation Systems. Chromatography (Basel), 2015, 2, 594-610.	1.2	5
60	Maximizing fibroblast adhesion on protein-coated surfaces using microfluidic cell printing. RSC Advances, 2015, 5, 104101-104109.	1.7	4
61	A New Vascular Coupler Design for End-to-End Anastomosis: Fabrication and Proof-of-Concept Evaluation. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.4	3
62	A Novel Vascular Coupling System for End-to-End Anastomosis. Cardiovascular Engineering and Technology, 2015, 6, 294-302.	0.7	8
63	Highly Sensitive Bacteria Quantification Using Immunomagnetic Separation and Electrochemical Detection of Guanine-Labeled Secondary Beads. Sensors, 2015, 15, 12034-12052.	2.1	45
64	Microfluidic-aided genotyping of zebrafish in the first 48Âh with 100Â% viability. Biomedical Microdevices, 2015, 17, 43.	1.4	6
65	Field and flow-based separations. Analytical and Bioanalytical Chemistry, 2015, 407, 4299-4300.	1.9	0
66	Anodized titania nanotube array microfluidic device for photocatalytic application: Experiment and simulation. Applied Catalysis B: Environmental, 2015, 174-175, 167-175.	10.8	16
67	Non-motile sperm cell separation using a spiral channel. Analytical Methods, 2015, 7, 8041-8047.	1.3	51
68	Contact lens biofuel cell tested in a synthetic tear solution. Biosensors and Bioelectronics, 2015, 68, 142-148.	5.3	130
69	Simple and cost-effective fabrication of microvalve arrays in PDMS using laser cut molds with application to <i>C. elegans </i> manipulation in microfluidics. Journal of Micromechanics and Microengineering, 2014, 24, 105007.	1.5	10
70	Vaccine Delivery: Nanocompositeâ€6trengthened Dissolving Microneedles for Improved Transdermal Delivery to Human Skin (Adv. Healthcare Mater. 4/2014). Advanced Healthcare Materials, 2014, 3, 462-462.	3.9	2
71	Design, fabrication, and testing of a novel end-to-end vascular coupling system., 2014, 2014, 6593-6.		0
72	Microfluidic devices for rapid and sensitive identification of organisms., 2014, 2014, 774-7.		0

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73	Improved polyvinylpyrrolidone microneedle arrays with non-stoichiometric cyclodextrin. Journal of Materials Chemistry B, 2014, 2, 1699-1705.	2.9	57
74	Design, fabrication and testing of a novel vascular coupling device. Biomedical Microdevices, 2014, 16, 173-180.	1.4	9
75	Quasi-digital PCR: Enrichment and quantification of rare DNA variants. Biomedical Microdevices, 2014, 16, 639-644.	1.4	6
76	A critical comparison of protein microarray fabrication technologies. Analyst, The, 2014, 139, 1303-1326.	1.7	154
77	Nanocompositeâ€Strengthened Dissolving Microneedles for Improved Transdermal Delivery to Human Skin. Advanced Healthcare Materials, 2014, 3, 555-564.	3.9	61
78	Circuit modification in electrical field flow fractionation systems generating higher resolution separation of nanoparticles. Journal of Chromatography A, 2014, 1365, 164-172.	1.8	8
79	A review of exosome separation techniques and characterization of B16-F10 mouse melanoma exosomes with AF4-UV-MALS-DLS-TEM. Analytical and Bioanalytical Chemistry, 2014, 406, 7855-7866.	1.9	141
80	The Submerged Printing of Cells onto a Modified Surface Using a Continuous Flow Microspotter. Journal of Visualized Experiments, 2014, , .	0.2	1
81	Biased Cyclical Electrical Field Flow Fractionation for Separation of Sub 50 nm Particles. Analytical Chemistry, 2013, 85, 11225-11232.	3.2	23
82	Separation of Magnetic Nanoparticles by Cyclical Electrical Field Flow Fractionation. IEEE Transactions on Magnetics, 2013, 49, 331-335.	1.2	7
83	Particulate and Dissolved Trace Element Concentrations in Three Southern Ecuador Rivers Impacted by Artisanal Gold Mining. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	48
84	Microfluidic integrated multi-walled carbon nanotube (MWCNT) sensor for electrochemical nucleic acid concentration measurement. Sensors and Actuators B: Chemical, 2013, 185, 370-376.	4.0	35
85	Applications of Microfluidics for Molecular Diagnostics. Methods in Molecular Biology, 2013, 949, 305-334.	0.4	33
86	Platinum functionalized titania nanotube array sensor for detection of Trichloroethylene in water. , 2013, , .		2
87	Enzymatic Biofuel Cell with a Flow-through Toray Paper Bioanode for Improved Fuel Utilization. Journal of the Electrochemical Society, 2013, 160, H612-H619.	1.3	29
88	Design and in Vitro Biocompatibility of a Novel Ocular Drug Delivery Device. Journal of Functional Biomaterials, 2013, 4, 14-26.	1.8	13
89	Cyclical magnetic field flow fractionation. Journal of Applied Physics, 2012, 111, 07D128.	1.1	4
90	Depth measurement in fully enclosed microchannels using laser interferometry. Measurement Science and Technology, 2012, 23, 087004.	1.4	2

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91	An electrostatic microvalve for pneumatic control of microfluidic systems. Journal of Micromechanics and Microengineering, 2012, 22, 025019.	1.5	29
92	Electrical Field-Flow Fractionation for Metal Nanoparticle Characterization. Analytical Chemistry, 2012, 84, 4993-4998.	3.2	23
93	New approaches to bridge nerve gaps: Development of a novel drug-delivering nerve conduit. , 2012, 2012, 747-50.		2
94	Characterization of Polymerized Liposomes Using a Combination of dc and Cyclical Electrical Field-Flow Fractionation. Analytical Chemistry, 2012, 84, 8323-8329.	3.2	14
95	Automated microfluidic DNA/RNA extraction with both disposable and reusable components. Journal of Micromechanics and Microengineering, 2012, 22, 015007.	1.5	15
96	Diffusion Split-Flow Thin Cell (SPLITT) system for protein separations. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 902, 78-83.	1.2	10
97	A novel method for effective field measurements in electrical fieldâ€flow fractionation. Electrophoresis, 2012, 33, 1040-1047.	1.3	6
98	Characterization of a microscale thermal–electrical field-flow fractionation system. Journal of Chromatography A, 2012, 1225, 174-181.	1.8	6
99	Optimization and characterization of a microscale thermal field-flow fractionation system. Sensors and Actuators B: Chemical, 2012, 162, 223-228.	4.0	2
100	Nanoparticle Characterization by Cyclical Electrical Field-Flow Fractionation. Analytical Chemistry, 2011, 83, 6565-6572.	3.2	32
101	Electrochemical quantification of DNA using aluminum oxide membranes. Procedia Engineering, 2011, 25, 713-716.	1.2	3
102	Endocapsular carousel technique phacoemulsification. Journal of Cataract and Refractive Surgery, 2011, 37, 433-437.	0.7	6
103	Microfluidic laminate-based phantom for diffusion tensor-magnetic resonance imaging. Journal of Micromechanics and Microengineering, 2011, 21, 095027.	1.5	3
104	Minor Losses in Rectangular Xurographic Microchannels. , 2010, , .		1
105	The capsule drug device: Novel approach for drug delivery to the eye. Vision Research, 2010, 50, 680-685.	0.7	46
106	Optimization of cyclical electrical field flow fractionation. Electrophoresis, 2010, 31, 3372-3379.	1.3	10
107	Evaluation needle length and density of microneedle arrays in the pretreatment of skin for transdermal drug delivery. International Journal of Pharmaceutics, 2010, 391, 7-12.	2.6	152
108	Improved Biomolecule microarrays by Printing on Nanoporous Aluminum Oxide Using a Continuousâ€Flow Microspotter. Small, 2010, 6, 1415-1421.	5.2	7

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109	Anin situheater for a phase-change-material-based actuation system. Journal of Micromechanics and Microengineering, 2010, 20, 085039.	1.5	11
110	Slip due to surface roughness for a Newtonian liquid in a viscous microscale disk pump. Physics of Fluids, $2010, 22, .$	1.6	17
111	Sample to answer: a fully integrated nucleic acid identification system for bacteria monitoring. , 2010,		2
112	Spinning Disk Platform for Microfluidic Digital Polymerase Chain Reaction. Analytical Chemistry, 2010, 82, 1546-1550.	3.2	113
113	A PCR reactor with an integrated alumina membrane for nucleic acid isolation. Analyst, The, 2010, 135, 2408.	1.7	53
114	Expanding the introduction of microfluidics through a problem-based laboratory course to multiple engineering disciplines at five universities. , 2010, , .		2
115	Bubble inclusion and removal using PDMS membrane-based gas permeation for applications in pumping, valving and mixing in microfluidic devices. Journal of Micromechanics and Microengineering, 2009, 19, 095011.	1.5	35
116	Applications, techniques, and microfluidic interfacing for nanoscale biosensing. Microfluidics and Nanofluidics, 2009, 7, 149-167.	1.0	64
117	Parallel determination of phenotypic cytotoxicity with a micropattern of mutant cell lines. Biomedical Microdevices, 2009, 11, 443-452.	1.4	0
118	Flexible fabrication, packaging, and detection approach for microscale chromatography systems. Sensors and Actuators B: Chemical, 2009, 141, 316-321.	4.0	6
119	"Spot and hop― Internal referencing for surface plasmon resonance imaging using a three-dimensional microfluidic flow cell array. Analytical Biochemistry, 2009, 385, 309-313.	1.1	26
120	Detergent screening of a G-protein-coupled receptor using serial and array biosensor technologies. Analytical Biochemistry, 2009, 386, 98-104.	1.1	37
121	Spatial DNA Melting Analysis for Genotyping and Variant Scanning. Analytical Chemistry, 2009, 81, 2053-2058.	3.2	34
122	Stable, Ligand-Doped, Poly(bis-SorbPC) Lipid Bilayer Arrays for Protein Binding and Detection. ACS Applied Materials & Detection. ACS Applied Materials & Detection. ACS	4.0	19
123	In Situ Microarray Fabrication and Analysis Using a Microfluidic Flow Cell Array Integrated with Surface Plasmon Resonance Microscopy. Analytical Chemistry, 2009, 81, 4296-4301.	3.2	31
124	Rapid prototyping of microfluidic systems using a PDMS/polymer tape composite. Lab on A Chip, 2009, 9, 1290.	3.1	80
125	Microfluidic sample preparation: cell lysis and nucleic acid purification. Integrative Biology (United) Tj ETQq $1\ 1\ 0$).784314 rg	gBT /Qverlo <mark>c</mark> l
126	Continuous-flow thermal gradient PCR. Biomedical Microdevices, 2008, 10, 187-195.	1.4	88

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127	Continuous-flow microfluidic printing of proteins for array-based applications including surface plasmon resonance imaging. Analytical Biochemistry, 2008, 373, 141-146.	1.1	69
128	Improved continuous-flow print head for micro-array deposition. Analytical Biochemistry, 2008, 382, 55-59.	1.1	17
129	Determining the optimal PDMS–PDMS bonding technique for microfluidic devices. Journal of Micromechanics and Microengineering, 2008, 18, 067001.	1.5	448
130	Low-Cost MEMS Technologies. , 2008, , 341-378.		12
131	Quantitative and qualitative analysis of a microfluidic DNA extraction system using a nanoporous AlOx membrane. Lab on A Chip, 2008, 8, 1516.	3.1	57
132	Flow-induced thermal effects on spatial DNA melting. Lab on A Chip, 2008, 8, 1922.	3.1	26
133	Product differentiation during continuous-flow thermal gradient PCR. Lab on A Chip, 2008, 8, 919.	3.1	43
134	Micropatterned Fluid Lipid Bilayer Arrays Created Using a Continuous Flow Microspotter. Analytical Chemistry, 2008, 80, 7980-7987.	3.2	39
135	Optimal Conditions for Protein Array Deposition Using Continuous Flow. Analytical Chemistry, 2008, 80, 8561-8567.	3.2	18
136	Large-area, high-aspect-ratio SU-8 molds for the fabrication of PDMS microfluidic devices. Journal of Micromechanics and Microengineering, 2008, 18, 045021.	1.5	52
137	Comparison of glass etching to xurography prototyping of microfluidic channels for DNA melting analysis. Journal of Micromechanics and Microengineering, 2007, 17, 2407-2413.	1.5	33
138	Thermal gradient PCR in a continuous-flow microchip. , 2007, , .		8
139	Nanoparticle analysis using microscale field flow fractionation. , 2007, , .		2
140	Direct Adsorption and Detection of Proteins, Including Ferritin, onto Microlens Array Patterned Bioarrays. Journal of the American Chemical Society, 2007, 129, 9252-9253.	6.6	49
141	Spin-assembled nanofilms for gaseous oxygen sensing. Sensors and Actuators B: Chemical, 2007, 120, 426-433.	4.0	7
142	Solution-phase DNA mutation scanning and SNP genotyping by nanoliter melting analysis. Biomedical Microdevices, 2007, 9, 159-166.	1.4	23
143	Microscale Field-Flow Fractionation: Theory and Practice. , 2007, , 471-521.		7
144	Characterization of a microscale cyclical electrical field flow fractionation system. Lab on A Chip, 2006, 6, 645.	3.1	18

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145	A microfabricated electrical SPLITT system. Lab on A Chip, 2006, 6, 105-114.	3.1	35
146	Reduction of End Effect-Induced Zone Broadening in Field-Flow Fractionation Channels. Analytical Chemistry, 2006, 78, 7978-7985.	3.2	14
147	Effect of Carrier Ionic Strength in Microscale Cyclical Electrical Field-Flow Fractionation. Analytical Chemistry, 2006, 78, 2557-2564.	3.2	15
148	Microfluidic DNA extraction using a patterned aluminum oxide membrane., 2006, 6112, 167.		1
149	Miniature Single-Disk Viscous Pump (Single-DVP), Performance Characterization. Journal of Fluids Engineering, Transactions of the ASME, 2006, 128, 602-610.	0.8	31
150	Geometric scaling effects on instrumental plate height in field flow fractionation. Journal of Chromatography A, 2006, 1104, 282-290.	1.8	19
151	Improved theory of cyclical electrical field flow fractionation. Electrophoresis, 2006, 27, 2833-2843.	1.3	13
152	Patterning of a nanoporous membrane for multi-sample DNA extraction. Journal of Micromechanics and Microengineering, 2006, 16, 33-39.	1. 5	17
153	Design, fabrication, and packaging of a practical multianalyte-capable optical biosensor. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2006, 5, 021105.	1.0	6
154	A Novel PDMS Microfluidic Spotter for Fabrication of Protein Chips and Microarrays. Journal of Microelectromechanical Systems, 2006, 15, 1145-1151.	1.7	44
155	A PDMS-based gas permeation pump for on-chip fluid handling in microfluidic devices. Journal of Micromechanics and Microengineering, 2006, 16, 2396-2402.	1.5	129
156	Performance and Development of a Miniature Rotary Shaft Pump. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 752-760.	0.8	10
157	A novel PDMS microfluidic spotter for fabrication of protein chips and microarrays. , 2005, , .		7
158	Single-disk and double-disk viscous micropumps. Sensors and Actuators A: Physical, 2005, 122, 149-158.	2.0	32
159	Cyclical electrical field flow fractionation. Electrophoresis, 2005, 26, 1623-1632.	1.3	38
160	Micro-structure mechanical failure characterization using rotating Couette flow in a small gap. Journal of Micromechanics and Microengineering, 2005, 15, 792-801.	1.5	6
161	Characterization of interconnects used in PDMS microfluidic systems. Journal of Micromechanics and Microengineering, 2005, 15, 928-934.	1.5	273
162	A monolithic PDMS waveguide system fabricated using soft-lithography techniques. Journal of Lightwave Technology, 2005, 23, 2088-2093.	2.7	192

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163	Integrated optical glucose sensor fabricated using PDMS waveguides on a PDMS substrate. , 2004, 5345, 98.		11
164	Flexible coupling of a waveguide detector with a microscale field flow fractionation device. , 2004, 5345, 250.		2
165	Performance and Development of a Miniature Rotary Shaft Pump (RSP)., 2004,, 705.		1
166	Single-Disk and Double-Disk Viscous Micropump. , 2004, , .		2
167	Platelet Function Analyzer: Shear Activation of Platelets in Microchannels. Biomedical Microdevices, 2003, 5, 207-215.	1.4	18
168	An integrated optical oxygen sensor fabricated using rapid-prototyping techniques. Lab on A Chip, 2003, 3, 297.	3.1	68
169	Integrated optical biochemical sensor fabricated using rapid-prototyping techniques., 2003,,.		8
170	Geometric Scaling Effects in Electrical Field Flow Fractionation. 2. Experimental Results. Analytical Chemistry, 2002, 74, 1024-1030.	3.2	40
171	A Microfabricated Thermal Field-Flow Fractionation System. Analytical Chemistry, 2002, 74, 1211-1216.	3.2	69
172	Electrostatic self-assembly of a ruthenium-based oxygen sensitive dye using polyion–dye interpolyelectrolyte formation. Sensors and Actuators B: Chemical, 2002, 87, 336-345.	4.0	37
173	BioMEMS Education at Louisiana Tech University. Biomedical Microdevices, 2002, 4, 223-230.	1.4	2
174	Viral Separations Using a Microfabricated Electrical Splitt System., 2002, , 584-586.		1
175	Geometric Scaling Effects in Electrical Field Flow Fractionation. 1. Theoretical Analysis. Analytical Chemistry, 2001, 73, 2345-2352.	3.2	40
176	Microscale Purification Systems for Biological Sample Preparation. Biomedical Microdevices, 2001, 3, 211-218.	1.4	11
177	<title>Effects of rectangular microchannel aspect ratio on laminar friction constant</title> ., 1999,,		50
178	<title>Electrical impedance-spectroscopy particle detector for use in microanalysis systems</title> ., 1999, 3877, 190.		5
179	A micromachined electrical field-flow fractionation (î½-EFFF) system. IEEE Transactions on Biomedical Engineering, 1998, 45, 1459-1469.	2.5	58
180	Electrical conductivity particle detector for use in biological and chemical micro-analysis systems. , 1998, 3515, 230.		8

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181	Micromachined metallic pipettes and bioanalysis systems. , 0, , .		1
182	Rehabilitative biomicrosystems. , 0, , .		0
183	Microfluidic platelet function analyzer for shear-induced platelet activation studies. , 0, , .		0
184	Using microfabrication and electrostatic layer-by-layer (LbL) self-assembly technologies to improve the growth and alignment of smooth muscle cells. , 0 , , .		3
185	A novel integrated optical dissolved oxygen sensor for cell culture and micro total analysis systems.		1
186	A PDMS Microfluidic Spotter for Fabrication of Lipid Microarrays. , 0, , .		0
187	Design and fabrication of a multianalyte-capable optical biosensor using a multiphysics approach. , 0, ,		2
188	Multi-DNA Extraction Chip Based on an Aluminum Oxide Membrane Integrated into a PDMS Microfluidic Structure. , 0, , .		4
189	Evaluating the influence of particle morphology and density on the viscosity and injectability of a novel long-acting local anesthetic suspension. Journal of Biomaterials Applications, 0, , 088532822211064.	1.2	0
190	Automated passive serial dilution microfluidic chip for calcium quantification based on the Arsenazo III method. Sensors & Diagnostics, 0, , .	1.9	0