Manabu Tokeshi

List of Publications by Year
in descending order

266 papers	10,760 citations	26630 56 h-index	40979 93 g-index
273 all docs	273 docs citations	273 times ranked	7678 citing authors

#	Article	IF	Citations
1	Integration of an Immunosorbent Assay System:Â Analysis of Secretory Human Immunoglobulin A on Polystyrene Beads in a Microchip. Analytical Chemistry, 2000, 72, 1144-1147.	6.5	398
2	Determination of Carcinoembryonic Antigen in Human Sera by Integrated Bead-Bed Immunoasay in a Microchip for Cancer Diagnosis. Analytical Chemistry, 2001, 73, 1213-1218.	6.5	353
3	Continuous-Flow Chemical Processing on a Microchip by Combining Microunit Operations and a Multiphase Flow Network. Analytical Chemistry, 2002, 74, 1565-1571.	6.5	330
4	Integration of a Microextraction System on a Glass Chip:Â Ion-Pair Solvent Extraction of Fe(II) with 4,7-Diphenyl-1,10-phenanthrolinedisulfonic Acid and Tri-n-octylmethylammonium Chloride. Analytical Chemistry, 2000, 72, 1711-1714.	6.5	262
5	Trafficking and Subcellular Localization of Multiwalled Carbon Nanotubes in Plant Cells. ACS Nano, 2011, 5, 493-499.	14.6	223
6	Advances in microfluidics for lipid nanoparticles and extracellular vesicles and applications in drug delivery systems. Advanced Drug Delivery Reviews, 2018, 128, 84-100.	13.7	215
7	Determination of Subyoctomole Amounts of Nonfluorescent Molecules Using a Thermal Lens Microscope:â€‰ Subsingle-Molecule Determination. Analytical Chemistry, 2001, 73, 2112-2116.	6.5	209
8	Nanochannels on a Fused-Silica Microchip and Liquid Properties Investigation by Time-Resolved Fluorescence Measurements. Analytical Chemistry, 2002, 74, 6170-6176.	6.5	208
9	Microchip-based immunoassay system with branching multichannels for simultaneous determination of interferon-Î³. Electrophoresis, 2002, 23, 734-739.	2.4	195
10	Peer Reviewed: Thermal Lens Microscopy and Microchip Chemistry. Analytical Chemistry, 2004, 76, 52 A-60 A.	6.5	191
11	Integrated Multilayer Flow System on a Microchip.. Analytical Sciences, 2001, 17, 89-93.	1.6	175
12	Single-Cell Analysis by a Scanning Thermal Lens Microscope with a Microchip:Â Direct Monitoring of CytochromecDistribution during Apoptosis Process. Analytical Chemistry, 2002, 74, 1560-1564.	6.5	165
13	Advances in Microfluidic Paper-Based Analytical Devices for Food and Water Analysis. Micromachines, 2016, 7, 86.	2.9	160
14	Microchip-based chemical and biochemical analysis systems. Advanced Drug Delivery Reviews, 2003, 55, 379-391.	13.7	156
15	Fast and high conversion phase-transfer synthesis exploiting the liquidâ€"liquid interface formed in a microchannel chip. Chemical Communications, 2001, , 2662-2663.	4.1	153
16	Surface Modification Method of Microchannels for Gasâˆ'Liquid Two-Phase Flow in Microchips. Analytical Chemistry, 2005, 77, 943-947.	6.5	144
17	Chemicofunctional Membrane for Integrated Chemical Processes on a Microchip. Analytical Chemistry, 2003, 75, 350-354.	6.5	142
18	Stabilization of Liquid Interface and Control of Two-Phase Confluence and Separation in Glass Microchips by Utilizing Octadecylsilane Modification of Microchannels. Analytical Chemistry, 2002, 74, 1724-1728.	6.5	140

#	Article	IF	Citations
19	Monitoring transplanted adipose tissue-derived stem cells combined with heparin in the liver by fluorescence imaging using quantum dots. Biomaterials, 2012, 33, 2177-2186.	11.4	140
20	Quantum dots labeling using octa-arginine peptides for imaging of adipose tissue-derived stem cells. Biomaterials, 2010, 31, 4094-4103.	11.4	124
21	Development of the iLiNP Device: Fine Tuning the Lipid Nanoparticle Size within 10 nm for Drug Delivery. ACS Omega, 2018, 3, 5044-5051.	3.5	124
22	Glass microchip with three-dimensional microchannel network for 2 Ã— 2 parallel synthesis. Lab on A Chip, 2002, 2, 188-192.	6.0	118
23	On-Chip Integration of Neutral Ionophore-Based Ion Pair Extraction Reaction. Analytical Chemistry, 2001, 73, 1382-1386.	6.5	115
24	Photothermal Temperature Control of a Chemical Reaction on a Microchip Using an Infrared Diode Laser. Analytical Chemistry, 2001, 73, 4037-4044.	6.5	114
25	Microchip-based enzyme-linked immunosorbent assay (microELISA) system with thermal lens detection. Lab on A Chip, 2004, 4, 570.	6.0	110
26	Integration of a microextraction system. Journal of Chromatography A, 2000, 894, 19-23.	3.7	105
27	Enhanced dispersion stability of gold nanoparticles by the physisorption of cyclic poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	12.8	105
28	Understanding structure-activity relationships of pH-sensitive cationic lipids facilitates the rational identification of promising lipid nanoparticles for delivering siRNAs in vivo. Journal of Controlled Release, 2019, 295, 140-152.	9.9	104
29	On-Chip Integration of Sequential Ion-Sensing System Based on Intermittent Reagent Pumping and Formation of Two-Layer Flow. Analytical Chemistry, 2001, 73, 5551-5556.	6.5	103
30	Size-Selective Growth and Stabilization of Small CdSe Nanoparticles in Aqueous Solution. ACS Nano, 2010, 4, 121-128.	14.6	100
31	High-speed micro-PIV measurements of transient flow in microfluidic devices. Measurement Science and Technology, 2004, 15, 1965-1970.	2.6	99
32	Development of a Microchip-Based Bioassay System Using Cultured Cells. Analytical Chemistry, 2005, 77, 2125-2131.	6.5	99
33	The Effect of Size and Charge of Lipid Nanoparticles Prepared by Microfluidic Mixing on Their Lymph Node Transitivity and Distribution. Molecular Pharmaceutics, 2020, 17, 944-953.	4.6	98
34	Non-contact photothermal control of enzyme reactions on a microchip by using a compact diode laser. Journal of Chromatography A, 2000, 894, 45-51.	3.7	96
35	Understanding the formation mechanism of lipid nanoparticles in microfluidic devices with chaotic micromixers. PLoS ONE, 2017, 12, e0187962.	2.5	96
36	Pile-up glass microreactor. Lab on A Chip, 2002, 2, 193.	6.0	93

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37	Microfluidic technologies and devices for lipid nanoparticle-based RNA delivery. Journal of Controlled Release, 2022, 344, 80-96.	9.9	92
38	Immuno-pillar chip: a new platform for rapid and easy-to-use immunoassay. Lab on A Chip, 2010, 10, 3335.	6.0	88
39	Integration of a wet analysis system on a glass chip: determination of Co(ii) as 2-nitroso-1-naphthol chelates by solvent extraction and thermal lens microscopy. Lab on A Chip, 2001, 1, 72.	6.0	82
40	Online Preconcentration by Transient Isotachophoresis in Linear Polymer on a Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td Chemistry, 2007, 79, 3667-3672.	6.5	82
41	Integration of Flow Injection Analysis and Zeptomole-Level Detection of the Fe(II)-<i>o</i>-Phenanthroline Complex. Analytical Sciences, 1999, 15, 641-645.	1.6	81
42	A micro-ELISA system for the rapid and sensitive measurement of total and specific immunoglobulin E and clinical application to allergy diagnosis. Lab on A Chip, 2009, 9, 991.	6.0	81
43	Elucidation of the physicochemical properties and potency of siRNA-loaded small-sized lipid nanoparticles for siRNA delivery. Journal of Controlled Release, 2016, 229, 48-57.	9.9	81
44	Simultaneous Separation, Metering, and Dilution of Plasma from Human Whole Blood in a Microfluidic System. Analytical Chemistry, 2009, 81, 3194-3198.	6.5	80
45	System for high-level radioactive waste using microchannel chip â€" extraction behavior of metal ions from aqueous phase to organic phase in microchannel. Progress in Nuclear Energy, 2005, 47, 439-447.	2.9	78
46	Integration of Chemical and Biochemical Analysis Systems into a Glass Microchip.. Analytical Sciences, 2003, 19, 15-22.	1.6	77
47	Aqueous Phase Synthesized CdSe Nanoparticles with Well-Defined Numbers of Constituent Atoms. Journal of Physical Chemistry C, 2010, 114, 18834-18840.	3.1	77
48	An instrument-free, screen-printed paper microfluidic device that enables bio and chemical sensing. Analyst, The, 2015, 140, 6493-6499.	3.5	76
49	Molecular Transport between Two Phases in a Microchannel.. Analytical Sciences, 2000, 16, 455-456.	1.6	74
50	A strategy for synthesis of lipid nanoparticles using microfluidic devices with a mixer structure. RSC Advances, 2015, 5, 46181-46185.	3.6	74
51	Rolling Circle Amplification and Circle-to-circle Amplification of a Specific Gene Integrated with Electrophoretic Analysis on a Single Chip. Analytical Chemistry, 2008, 80, 2483-2490.	6.5	70
52	Pressure-driven flow control system for nanofluidic chemical process. Journal of Chromatography A, 2006, 1137, 256-262.	3.7	69
53	DNA Separation in Nanowall Array Chips. Analytical Chemistry, 2011, 83, 6635-6640.	6.5	64
54	Functional Platform for Controlled Subcellular Distribution of Carbon Nanotubes. ACS Nano, 2011, 5, 9264-9270.	14.6	63

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55	DNA Manipulation and Separation in Sublithographic-Scale Nanowire Array. ACS Nano, 2013, 7, 3029-3035.	14.6	61
56	Nanopillar, nanoball, and nanofibers for highly efficient analysis of biomolecules. Chemical Society Reviews, 2010, 39, 948.	38.1	57
57	Image analysis for a microfluidic paper-based analytical device using the CIE L*a*b* color system. Analyst, The, 2016, 141, 6507-6509.	3.5	54
58	Lipid nanoparticles loaded with ribonucleoproteinâ€“oligonucleotide complexes synthesized using a microfluidic device exhibit robust genome editing and hepatitis B virus inhibition. Journal of Controlled Release, 2021, 330, 61-71.	9.9	54
59	Simple and sensitive colorimetric assay system for horseradish peroxidase using microfluidic paper-based devices. Sensors and Actuators B: Chemical, 2016, 236, 433-441.	7.8	53
60	UV Excitation Thermal Lens Microscope for Sensitive and Nonlabeled Detection of Nonfluorescent Molecules. Analytical Chemistry, 2006, 78, 2859-2863.	6.5	52
61	Microchip-based liquidâ€“liquid extraction for gas-chromatography analysis of amphetamine-type stimulants in urine. Journal of Chromatography A, 2006, 1129, 105-110.	3.7	52
62	Chemical processing on microchips for analysis, synthesis, and bioassay. Electrophoresis, 2003, 24, 3583-3594.	2.4	51
63	Spectroscopic Analysis of Liquid/Liquid Interfaces in Multiphase Microflows. Journal of the American Chemical Society, 2003, 125, 14954-14955.	13.7	51
64	Micro wet analysis system using multi-phase laminar flows in three-dimensional microchannel networkElectronic supplementary information (ESI) available: illustration and microscopic view of two-phase laminar flow. See http://www.rsc.org/suppdata/lc/b4/b400233d/. Lab on A Chip, 2004, 4, 328.	6.0	50
65	Study of water properties in nanospace. Analytical and Bioanalytical Chemistry, 2006, 386, 759-764.	3.7	49
66	Thermal Lens Micro Optical Systems. Analytical Chemistry, 2005, 77, 626-630.	6.5	48
67	Microchip-based homogeneous immunoassay using fluorescence polarization spectroscopy. Lab on A Chip, 2009, 9, 966-971.	6.0	48
68	Microfluidic baker's transformation device for three-dimensional rapid mixing. Lab on A Chip, 2011, 11, 3356.	6.0	48
69	Acceleration of an Enzymatic Reaction in a Microchip.. Analytical Sciences, 2001, 17, 809-810.	1.6	47
70	Electroosmotic Flow in Microchannels with Nanostructures. ACS Nano, 2011, 5, 7775-7780.	14.6	46
71	Sub-Zeptomole Detection in a Microfabricated Glass Channel by Thermal-Lens Microscopy.. Analytical Sciences, 1999, 15, 525-529.	1.6	45
72	Microchannel-assisted thermal-lens spectrometry for microchip analysis. Journal of Chromatography A, 2003, 987, 197-204.	3.7	44

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73	Development of a Microfluidic-Based Post-Treatment Process for Size-Controlled Lipid Nanoparticles and Application to siRNA Delivery. ACS Applied Materials & Interfaces, 2020, 12, 34011-34020.	8.0	44
74	Application of IgY to sandwich enzyme-linked immunosorbent assays, lateral flow devices, and immunopillar chips for detecting staphylococcal enterotoxins in milk and dairy products. Journal of Microbiological Methods, 2013, 92, 323-331.	1.6	43
75	Optimisation of thermal lens microscopic measurements in a microchip. Analytica Chimica Acta, 2003, 480, 79-95.	5.4	41
76	Exceeding 20â€‰000â€fold concentration of protein by the onâ€line isotachophoresis concentration in poly(methyl methacrylate) microchip. Electrophoresis, 2009, 30, 3250-3256.	2.4	41
77	Measurement of pH field of chemically reacting flow in microfluidic devices by laser-induced fluorescence. Measurement Science and Technology, 2004, 15, 955-960.	2.6	40
78	Introducing carbon nanotubes into living walled plant cells through cellulase-induced nanoholes. RSC Advances, 2012, 2, 398-400.	3.6	40
79	A paper-based analytical device coupled with electrochemical detection for the determination of dexamethasone and prednisoloneÂin adulterated traditional medicines. Analytica Chimica Acta, 2019, 1078, 16-23.	5.4	40
80	Optimization of an Interface Chip for Coupling Capillary Electrophoresis with Thermal Lens Microscopic Detection. Analytical Sciences, 2005, 21, 49-52.	1.6	39
81	Cell separation by the combination of microfluidics and optical trapping force on a microchip. Analytical and Bioanalytical Chemistry, 2009, 394, 277-283.	3.7	39
82	Circular Dichroism Thermal Lens Microscope for Sensitive Chiral Analysis on Microchip. Analytical Chemistry, 2006, 78, 2646-2650.	6.5	38
83	A Portable Liquid Chromatograph with a Battery-operated Compact Electroosmotic Pump and a Microfluidic Chip Device with a Reversed Phase Packed Column. Analytical Sciences, 2015, 31, 1163-1169.	1.6	38
84	Microfluidic Approaches for Protein Crystal Structure Analysis. Analytical Sciences, 2016, 32, 3-9.	1.6	38
85	Quantum Dots for Single Bio-Molecule Imaging. Analytical Sciences, 2007, 23, 21-24.	1.6	37
86	Single- and countable-molecule detection of non-fluorescent molecules in liquid phase. Journal of Luminescence, 1999, 83-84, 261-264.	3.1	36
87	An interface chip connection between capillary electrophoresis and thermal lens microscope. Electrophoresis, 2003, 24, 179-184.	2.4	36
88	Phase separation of gasâ€"liquid and liquidâ€"liquid microflows in microchips. Mikrochimica Acta, 2009, 164, 249-255.	5.0	36
89	Paper-Based Device for the Facile Colorimetric Determination of Lithium Ions in Human Whole Blood. ACS Sensors, 2020, 5, 1287-1294.	7.8	36
90	Rapid proton diffusion in microfluidic devices by means of micro-LIF technique. Experiments in Fluids, 2005, 38, 117-122.	2.4	35

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91	The Use of a Microfluidic Device to Encapsulate a Poorly Water-Soluble Drug CoQ10 in Lipid Nanoparticles and an Attempt to Regulate Intracellular Trafficking to Reach Mitochondria. Journal of Pharmaceutical Sciences, 2019, 108, 2668-2676.	3.3	35
92	Hydrophobic scaffolds of pH-sensitive cationic lipids contribute to miscibility with phospholipids and improve the efficiency of delivering short interfering RNA by small-sized lipid nanoparticles. Acta Biomaterialia, 2020, 102, 341-350.	8.3	35
93	The use of design of experiments with multiple responses to determine optimal formulations for in vivo hepatic mRNA delivery. Journal of Controlled Release, 2020, 327, 467-476.	9.9	35
94	Label-Free Detection of DNA-Binding Proteins Based on Microfluidic Solid-State Molecular Beacon Sensor. Analytical Chemistry, 2011, 83, 3528-3532.	6.5	32
95	Tunable thermal lens spectrometry utilizing microchannel-assisted thermal lens spectrometry. Lab on A Chip, 2005, 5, 129.	6.0	29
96	Development of the microchip-based repeatable immunoassay system for clinical diagnosis. Measurement Science and Technology, 2006, 17, 3189-3194.	2.6	29
97	Determination of human blood glucose levels using microchip electrophoresis. Electrophoresis, 2007, 28, 2927-2933.	2.4	29
98	Singleâ€•molecule measurements with a single quantum dot. Chemical Record, 2007, 7, 295-304.	5.8	29
99	Label-Free Electrochemical Sensor for Ochratoxin A Using a Microfabricated Electrode with Immobilized Aptamer. ACS Omega, 2018, 3, 16823-16830.	3.5	29
100	Recent Microdevice-Based Aptamer Sensors. Micromachines, 2018, 9, 202.	2.9	29
101	Microfluidic biosensor for the detection of DNA by fluorescence enhancement and the following streptavidin detection by fluorescence quenching. Biosensors and Bioelectronics, 2014, 51, 280-285.	10.1	28
102	Monitoring of intercellular messengers released from neuron networks cultured in a microchip. Journal of Chromatography A, 2006, 1111, 228-232.	3.7	27
103	Extraction of Am(III) at the Interface of Organic-Aqueous Two-Layer Flow in a Microchannel. Journal of Nuclear Science and Technology, 2011, 48, 1313-1318.	1.3	27
104	Morphological Dependence of Radiative and Nonradiative Relaxation Energy Balance in Photoexcited Aryl Ether Dendrimers as Observed by Fluorescent and Thermal Lens Spectroscopies. Journal of Physical Chemistry B, 2001, 105, 4441-4445.	2.6	25
105	Estimation of the Distribution of Intravenously Injected Adipose Tissue-Derived Stem Cells Labeled with Quantum Dots in Mice Organs through the Determination of their Metallic Components by ICPMS. Analytical Chemistry, 2011, 83, 8252-8258.	6.5	25
106	Rapid detection of anti-H5 avian influenza virus antibody by fluorescence polarization immunoassay using a portable fluorescence polarization analyzer. Sensors and Actuators B: Chemical, 2020, 316, 128160.	7.8	25
107	Enhanced electrophoretic resolution of monosulfate glycosaminoglycan disaccharide isomers on poly(methyl methacrylate) chips. Electrophoresis, 2007, 28, 414-421.	2.4	23
108	A competitive immunoassay system for microfluidic paper-based analytical detection of small size molecules. Analyst, The, 2016, 141, 6598-6603.	3.5	23

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109	Rapid analysis of oligosaccharides derived from glycoproteins by microchip electrophoresis. Journal of Chromatography A, 2006, 1109, 138-143.	3.7	22
110	Miniaturized thermal lens and fluorescence detection system for microchemical chips. Journal of Chromatography A, 2006, 1106, 89-93.	3.7	22
111	Nuclease Tolerant FRET Probe Based on DNA-Quantum Dot Conjugation. Analytical Sciences, 2008, 24, 181-183.	1.6	22
112	Thermal lens detection device. Lab on A Chip, 2011, 11, 2990.	6.0	22
113	Inkjet Injection of DNA Droplets for Microchannel Array Electrophoresis. Analytical Chemistry, 2012, 84, 9282-9286.	6.5	22
114	Dynamic coating using methylcellulose and polysorbate 20 for nondenaturing electrophoresis of proteins on plastic microchips. Electrophoresis, 2007, 28, 830-836.	2.4	21
115	Accurate quantitation of salivary and pancreatic amylase activities in human plasma by microchip electrophoretic separation of the substrates and hydrolysates coupled with immunoinhibition. Electrophoresis, 2008, 29, 1902-1909.	2.4	21
116	Rapid bonding of Pyrex glass microchips. Electrophoresis, 2007, 28, 994-1001.	2.4	20
117	Quantitative determination of amino acids in functional foods by microchip electrophoresis. Journal of Separation Science, 2008, 31, 898-903.	2.5	20
118	A clinical trial for therapeutic drug monitoring using microchip-based fluorescence polarization immunoassay. Analytical and Bioanalytical Chemistry, 2011, 401, 2301-2305.	3.7	20
119	Generation of ynolates via reductive lithiation using flow microreactors. Tetrahedron Letters, 2014, 55, 1822-1825.	1.4	20
120	A Method of Cryoprotection for Protein Crystallography by Using a Microfluidic Chip and Its Application for in Situ X-ray Diffraction Measurements. Analytical Chemistry, 2015, 87, 4194-4200.	6.5	20
121	High-throughput fluorescence polarization immunoassay by using a portable fluorescence polarization imaging analyzer. Lab on A Chip, 2019, 19, 2581-2588.	6.0	20
122	Delivery of Oligonucleotides Using a Self-Degradable Lipid-Like Material. Pharmaceutics, 2021, 13, 544.	4.5	20
123	Effect of korteweg stress in miscible liquid two-layer flow in a microfluidic device. Journal of Visualization, 2005, 8, 117-124.	1.8	19
124	Nanotechnology for genomics & proteomics. Nano Today, 2006, 1, 38-45.	11.9	19
125	Influences of electroosmotic flows in nanopillar chips on DNA separation: Experimental results and numerical simulations. Israel Journal of Chemistry, 2007, 47, 161-169.	2.3	19
126	A touch-and-go lipid wrapping technique in microfluidic channels for rapid fabrication of multifunctional envelope-type gene delivery nanodevices. Lab on A Chip, 2011, 11, 3256.	6.0	19

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127	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. CrystEngComm, 2016, 18, 7722-7727.	2.6	19
128	Label-free detection of real-time DNA amplification using a nanofluidic diffraction grating. Scientific Reports, 2016, 6, 31642.	3.3	19
129	Characteristics of Microfluidic Paper-based Analytical Devices Fabricated by Four Different Methods. Analytical Sciences, 2018, 34, 39-44.	1.6	19
130	Rapid, Sensitive, and Selective Detection of H5 Hemagglutinin from Avian Influenza Virus Using an Immunowall Device. ACS Omega, 2019, 4, 16683-16688.	3.5	19
131	Rapid, sensitive universal paper-based device enhances competitive immunoassays of small molecules. Analytica Chimica Acta, 2021, 1144, 85-95.	5.4	19
132	Microchip analysis of plant glucosinolates. Electrophoresis, 2008, 29, 2280-2287.	2.4	18
133	Microchip Electrophoresis for Specific Gene Detection of the Pathogenic Bacteria V. cholerae by Circle-to-Circle Amplification. Analytical Sciences, 2008, 24, 327-332.	1.6	18
134	Arrangement of a Nanostructure Array To Control Equilibrium and Nonequilibrium Transports of Macromolecules. Nano Letters, 2015, 15, 3445-3451.	9.1	18
135	3,3â€²,5,5â€²-Tetramethylbenzidine Oxidation on Paper Devices for Horseradish Peroxidase-based Assays. Analytical Sciences, 2016, 32, 815-818.	1.6	18
136	Room-temperature crystallography using a microfluidic protein crystal array device and its application to proteinâ€"ligand complex structure analysis. Chemical Science, 2020, 11, 9072-9087.	7.4	18
137	One-step non-competitive fluorescence polarization immunoassay based on a Fab fragment for C-reactive protein quantification. Sensors and Actuators B: Chemical, 2021, 326, 128982.	7.8	18
138	Three-dimensional, symmetrically assembled microfluidic device for lipid nanoparticle production. RSC Advances, 2021, 11, 1430-1439.	3.6	18
139	On the size-regulation of RNA-loaded lipid nanoparticles synthesized by microfluidic device. Journal of Controlled Release, 2022, 348, 648-659.	9.9	18
140	Flowing thermal lens micro-flow velocimeter. Sensors and Actuators B: Chemical, 2008, 133, 91-96.	7.8	17
141	Online transient isotachophoresis concentration by the pseudo-terminating electrolyte buffer for the separation of DNAâ€"aptamer and its thrombin complex in poly(methyl methacrylate) microchip. Analyst, The, 2011, 136, 1142.	3.5	17
142	Aqueous phase-synthesized small CdSe quantum dots: adsorption layer structure and strong band-edge and surface trap emission. Journal of Nanoparticle Research, 2011, 13, 5781-5798.	1.9	17
143	Characterization of low viscosity polymer solutions for microchip electrophoresis of non-denatured proteins on plastic chips. Biomicrofluidics, 2011, 5, 044114.	2.4	17
144	The plant cell uses carbon nanotubes to build tracheary elements. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.3	17

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145	Determination of blood lithium-ion concentration using digital microfluidic whole-blood separation and preloaded paper sensors. Biosensors and Bioelectronics, 2022, 195, 113631.	10.1	17
146	Continuous-Flow Chemical Processing in Three-Dimensional Microchannel Network for On-Chip Integration of Multiple Reactions in a Combinatorial Mode. QSAR and Combinatorial Science, 2005, 24, 742-757.	1.4	16
147	Electrochemical enzyme-based blood ATP and lactate sensor for a rapid and straightforward evaluation of illness severity. Biosensors and Bioelectronics, 2022, 198, 113832.	10.1	16
148	Long-term energy storage of dendrimers. Journal of Luminescence, 1999, 83-84, 313-315.	3.1	15
149	Integrated chemical systems on microchips for analysis and assay. Potential future, mobile high-performance detection system for chemical weapons. Pure and Applied Chemistry, 2002, 74, 2299-2309.	1.9	15
150	Development of a desktop-sized thermal lens microscope. Bunseki Kagaku, 2003, 52, 569-574.	0.2	15
151	Liquid Filling Method for Nanofluidic Channels Utilizing the High Solubility of CO₂. Analytical Sciences, 2006, 22, 529-532.	1.6	15
152	Quantitative Detection and Fixation of Single and Multiple Gold Nanoparticles on a Microfluidic Chip by Thermal Lens Microscope. Analytical Sciences, 2006, 22, 781-784.	1.6	15
153	On-chip fabrication of mutifunctional envelope-type nanodevices for gene delivery. Analytical and Bioanalytical Chemistry, 2008, 391, 2729-2733.	3.7	15
154	A compact fluorescence polarization analyzer with high-transmittance liquid crystal layer. Review of Scientific Instruments, 2018, 89, 024103.	1.3	15
155	An Electrochemical Sensor Based on Structure Switching of Dithiol-modified Aptamer for Simple Detection of Ochratoxin A. Analytical Sciences, 2019, 35, 1221-1226.	1.6	15
156	Continuous flow chemical processing on a microchip using microunit operations and a multiphase flow network. Progress in Nuclear Energy, 2005, 47, 434-438.	2.9	14
157	Carbon Nanotubes and Modern Nanoagriculture. , 2015, , 183-201.		14
158	Fluorescence Polarization Measurement System Using a Liquid Crystal Layer and an Image Sensor. Analytical Chemistry, 2015, 87, 9647-9652.	6.5	14
159	Development of a microdevice for facile analysis of theophylline in whole blood by a cloned enzyme donor immunoassay. Lab on A Chip, 2019, 19, 233-240.	6.0	14
160	Dynamic modification of poly(methyl methacrylate) chips using poly(vinyl alcohol) for glycosaminoglycan disaccharide isomer separation. Electrophoresis, 2007, 28, 3308-3314.	2.4	13
161	Dynamic Cross-Linking Effect of Mg2+ To Enhance Sieving Properties of Low-Viscosity Poly(vinylpyrrolidone) Solutions for Microchip Electrophoresis of Proteins. Analytical Chemistry, 2008, 80, 312-316.	6.5	13
162	Rapid, highly sensitive, and simultaneous detection of staphylococcal enterotoxins in milk by using immuno-pillar devices. Analytical Methods, 2015, 7, 5092-5095.	2.7	13

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163	A millisecond micro-RNA separation technique by a hybrid structure of nanopillars and nanoslits. Scientific Reports, 2017, 7, 43877.	3.3	13
164	Dip-Type Paper-Based Analytical Device for Straightforward Quantitative Detection without Precise Sample Introduction. ACS Sensors, 2021, 6, 1094-1102.	7.8	13
165	A viscosity-tunable polymer for DNA separation by microchip electrophoresis. Analytical and Bioanalytical Chemistry, 2008, 391, 2543-2549.	3.7	12
166	Nanopillar array chip integrated with on-line stacking for fast DNA separation with high sensitivity and high resolution. Microfluidics and Nanofluidics, 2013, 14, 961-967.	2.2	12
167	An immuno-wall microdevice exhibits rapid and sensitive detection of IDH1-R132H mutation specific to grade II and III gliomas. Science and Technology of Advanced Materials, 2016, 17, 618-625.	6.1	12
168	Dynamic wettability of polyethylene glycol-modified poly(dimethylsiloxane) surfaces in an aqueous/organic two-phase system. Lab on A Chip, 2018, 18, 356-361.	6.0	12
169	Ultrasensitive detection of disease biomarkers using an immuno-wall device with enzymatic amplification. Analyst, The, 2019, 144, 4589-4595.	3.5	12
170	Paper-Based Analytical Device for the On-Site Detection of Nerve Agents. ACS Applied Bio Materials, 2021, 4, 6512-6518.	4.6	12
171	Facile and rapid detection of SARS-CoV-2 antibody based on a noncompetitive fluorescence polarization immunoassay in human serum samples. Biosensors and Bioelectronics, 2021, 190, 113414.	10.1	12
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