

K Mawatari

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154
papers

3,944
citations

33
h-index

55
g-index

160
ext. papers

4,545
ext. citations

5.9
avg, IF

5.4
L-index

#	Paper	IF	Citations
154	Water structure in 100nm nanochannels revealed by nano X-ray diffractometry and Raman spectroscopy. <i>Journal of Molecular Liquids</i> , 2022 , 350, 118567	6	0
153	Picoliter liquid handling at gas/liquid interface by surface and geometry control in a micro-nanofluidic device. <i>Journal of Micromechanics and Microengineering</i> , 2022 , 32, 024001	2	0
152	Isotope Effect in the Liquid Properties of Water Confined in 100 nm Nanofluidic Channels. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3178-3183	3.4	4
151	Integration of sequential analytical processes into sub-100 nm channels: volumetric sampling, chromatographic separation, and label-free molecule detection. <i>Nanoscale</i> , 2021 , 13, 8855-8863	7.7	1
150	Nano-bubble Valve. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1	2.8	1
149	Diffraction-based label-free photothermal detector for separation analyses in a nanocapillary. <i>Journal of Chromatography A</i> , 2021 , 1648, 462214	4.5	0
148	B Cell Depletion Inhibits Fibrosis via Suppression of Profibrotic Macrophage Differentiation in a Mouse Model of Systemic Sclerosis. <i>Arthritis and Rheumatology</i> , 2021 , 73, 2086-2095	9.5	2
147	Nanochannel chromatography and photothermal optical diffraction: Femtoliter sample separation and label-free zeptomole detection. <i>Journal of Chromatography A</i> , 2020 , 1624, 461265	4.5	10
146	Ultrasensitive detection of nonlabelled bovine serum albumin using photothermal optical phase shift detection with UV excitation. <i>Analyst, The</i> , 2020 , 145, 2580-2585	5	5
145	Lipid Bilayer-Modified Nanofluidic Channels of Sizes with Hundreds of Nanometers for Characterization of Confined Water and Molecular/Ion Transport. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5756-5762	6.4	3
144	Detection and Characterization of Individual Nanoparticles in a Liquid by Photothermal Optical Diffraction and Nanofluidics. <i>Analytical Chemistry</i> , 2020 , 92, 3434-3439	7.8	5
143	Characterization of optical diffraction by single nanochannel for aLFL sample detection in nanofluidics. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	4
142	Femtoliter Volumetric Pipette and Flask Utilizing Nanofluidics. <i>Analyst, The</i> , 2020 , 145, 2669-2675	5	7
141	Concentration Determination at a Countable Molecular Level in Nanofluidics by Solvent-Enhanced Photothermal Optical Diffraction. <i>Analytical Chemistry</i> , 2020 , 92, 14366-14372	7.8	2
140	Femtoliter Gradient Elution System for Liquid Chromatography Utilizing Extended Nanofluidics. <i>Analytical Chemistry</i> , 2019 , 91, 3009-3014	7.8	15
139	Ferroelectric Extended Nanofluidic Channels for Room-Temperature Microfuel Cells. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900252	6.8	1
138	The absence of [C ii] 158 μm emission in spectroscopically confirmed galaxies at $z > 8$. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019 , 487, L81-L85	4.3	27

137	Femtoliter nanofluidic valve utilizing glass deformation. <i>Lab on A Chip</i> , 2019 , 19, 1686-1694	7.2	18
136	Detachable glass micro/nanofluidic device. <i>Biomicrofluidics</i> , 2019 , 13, 024104	3.2	12
135	Nonfluorescent Molecule Detection in 10 nm Nanofluidic Channels by Photothermal Optical Diffraction. <i>Analytical Chemistry</i> , 2019 , 91, 9741-9746	7.8	12
134	Parallel multiphase nanofluidics utilizing nanochannels with partial hydrophobic surface modification and application to femtoliter solvent extraction. <i>Lab on A Chip</i> , 2019 , 19, 3844-3852	7.2	10
133	Enzyme-linked immunosorbent assay utilizing thin-layered microfluidics. <i>Analyst, The</i> , 2019 , 144, 6625-6634	6.3	6
132	Highly efficient photocatalytic conversion of solar energy to hydrogen by WO ₃ /BiVO ₄ core-shell heterojunction nanorods. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 1017-1024	3.3	14
131	Communication-Evaporation Driven Micro/Nanofluidic Pumping Device. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B184-B186	3.9	4
130	A single-molecule ELISA device utilizing nanofluidics. <i>Analyst, The</i> , 2018 , 143, 943-948	5	30
129	Nano X-ray diffractometry device for nanofluidics. <i>Lab on A Chip</i> , 2018 , 18, 1259-1264	7.2	6
128	Rapid alteration of serum interleukin-6 levels may predict the reactivity of i.v. cyclophosphamide pulse therapy in systemic sclerosis-associated interstitial lung disease. <i>Journal of Dermatology</i> , 2018 , 45, 1221-1224	1.6	5
127	Metamaterials-Enhanced Infrared Spectroscopic Study of Nanoconfined Molecules by Plasmonics-Nanofluidics Hybrid Device. <i>ACS Photonics</i> , 2018 , 5, 3179-3188	6.3	27
126	Transport of a Micro Liquid Plug in a Gas-Phase Flow in a Microchannel. <i>Micromachines</i> , 2018 , 9,	3.3	2
125	Micro/extended-nano sampling interface from a living single cell. <i>Analyst, The</i> , 2017 , 142, 1689-1696	5	18
124	A sensitive and rapid assay of BNP in patient blood by micro-ELISA. <i>Analytical Methods</i> , 2017 , 9, 2830-2834	3.4	5
123	Thermo-optical Characterization of Photothermal Optical Phase Shift Detection in Extended-Nano Channels and UV Detection of Biomolecules. <i>Analytical Chemistry</i> , 2017 , 89, 6043-6049	7.8	8
122	From Extended Nanofluidics to an Autonomous Solar-Light-Driven Micro Fuel-Cell Device. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8130-8133	16.4	19
121	Contribution of Soluble Forms of Programmed Death 1 and Programmed Death Ligand 2 to Disease Severity and Progression in Systemic Sclerosis. <i>Arthritis and Rheumatology</i> , 2017 , 69, 1879-1890	9.5	28
120	Clogging-Free Irreversible Bonding of Polycarbonate Membranes to Glass Microfluidic Devices. <i>Journal of the Electrochemical Society</i> , 2017 , 164, B3087-B3090	3.9	12

119	From Extended Nanofluidics to an Autonomous Solar-Light-Driven Micro Fuel-Cell Device. <i>Angewandte Chemie</i> , 2017 , 129, 8242-8245	3.6	6
118	Micro heat pipe device utilizing extended nanofluidics. <i>RSC Advances</i> , 2017 , 7, 50591-50597	3.7	8
117	Extended-nano chromatography. <i>Journal of Chromatography A</i> , 2017 , 1490, 11-20	4.5	18
116	Investigation of Preservation Stability for a Small Amount of Patient Samples Using Microfluidic Device. <i>Bunseki Kagaku</i> , 2017 , 66, 453-457	0.2	
115	Cell sheet mechanics: How geometrical constraints induce the detachment of cell sheets from concave surfaces. <i>Acta Biomaterialia</i> , 2016 , 45, 85-97	10.8	24
114	Femtoliter high-performance liquid chromatography using extended-nano channels. <i>Analyst, The</i> , 2016 , 141, 6068-6072	5	14
113	Living Single Cell Analysis Platform Utilizing Microchannel, Single Cell Chamber, and Extended-nano Channel. <i>Analytical Sciences</i> , 2016 , 32, 75-8	1.7	16
112	On-Chip Step-Mixing in a T-Nanomixer for Liquid Chromatography in Extended-Nanochannels. <i>Analytical Chemistry</i> , 2016 , 88, 10059-10064	7.8	17
111	Detection of an oxygen emission line from a high-redshift galaxy in the reionization epoch. <i>Science</i> , 2016 , 352, 1559-62	33.3	118
110	Extended-Nanofluidic Devices and the Unique Liquid Properties - Invited Paper. <i>Solid State Phenomena</i> , 2016 , 255, 157-160	0.4	
109	High-Pressure Acceleration of Nanoliter Droplets in the Gas Phase in a Microchannel. <i>Micromachines</i> , 2016 , 7,	3.3	3
108	Tandem photovoltaic photoelectrochemical GaAs/InGaAsP/WO ₃ /BiVO ₄ device for solar hydrogen generation. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 04ES01	1.4	23
107	Low-temperature bonding process for the fabrication of hybrid glass/membrane organ-on-a-chip devices. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2016 , 15, 044502	0.7	4
106	Whole blood analysis using microfluidic plasma separation and enzyme-linked immunosorbent assay devices. <i>Analytical Methods</i> , 2016 , 8, 7597-7602	3.2	8
105	Behavior of nanoparticles in extended nanospace measured by evanescent wave-based particle velocimetry. <i>Analytical Chemistry</i> , 2015 , 87, 4087-91	7.8	20
104	Keto-Enol Tautomeric Equilibrium of Acetylacetone Solution Confined in Extended Nanospaces. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14750-5	3.4	14
103	Spontaneous Packaging and Hypothermic Storage of Mammalian Cells with a Cell-Membrane-Mimetic Polymer Hydrogel in a Microchip. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23089-97	9.5	19
102	Reversed-phase chromatography in extended-nano space for the separation of amino acids. <i>Journal of Chromatography A</i> , 2015 , 1418, 224-227	4.5	11

101	Structure and Dynamics of Water and Nonaqueous Solvents Confined in Extended Nanospaces Characterized by NMR Spectroscopy. <i>Bunseki Kagaku</i> , 2015 , 64, 261-271	0.2	1
100	Reversed-phase Chromatography in an Extended Nanospace: Separating Amino Acids in Short and Long Nanochannels. <i>Analytical Sciences</i> , 2015 , 31, 1201-4	1.7	4
99	Analytical Method by Micro-ELISA for Small Amount of Patient Sample. <i>Bunseki Kagaku</i> , 2015 , 64, 461-468	2	2
98	Photocatalytic generation of hydrogen by core-shell WO ₃ /BiVO ₄ nanorods with ultimate water splitting efficiency. <i>Scientific Reports</i> , 2015 , 5, 11141	4.9	380
97	Low-temperature bonded glass-membrane microfluidic device for in vitro organ-on-a-chip cell culture models 2015 ,		1
96	Dielectric constant of liquids confined in the extended nanospace measured by a streaming potential method. <i>Analytical Chemistry</i> , 2015 , 87, 1475-9	7.8	21
95	Novel sub-100 nm surface chemical modification by optical near-field induced photocatalytic reaction. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 751-758	2.8	1
94	Thermal lens microscopy as a detector in microdevices. <i>Electrophoresis</i> , 2014 , 35, 2279-91	3.6	22
93	Nanostructured WO ₃ /BiVO ₄ photoanodes for efficient photoelectrochemical water splitting. <i>Small</i> , 2014 , 10, 3692-9	11	191
92	Extended-nanofluidics: fundamental technologies, unique liquid properties, and application in chemical and bio analysis methods and devices. <i>Analytical Chemistry</i> , 2014 , 86, 4068-77	7.8	85
91	Detection of zeptomole quantities of nonfluorescent molecules in a 10(1) nm nanochannel by thermal lens microscopy. <i>Analyst, The</i> , 2014 , 139, 2721-5	5	15
90	Femtoliter-scale separation and sensitive detection of nonfluorescent samples in an extended-nano fluidic device. <i>Analyst, The</i> , 2014 , 139, 2154-7	5	17
89	A competitive microfluidic immunological clenbuterol analysis using a microELISA system. <i>RSC Advances</i> , 2014 , 4, 39894	3.7	3
88	Ubiquitous element approach to plasmonic enhanced photocatalytic water splitting: the case of Ti@TiO ₂ core-shell nanostructure. <i>Nanotechnology</i> , 2014 , 25, 315402	3.4	10
87	Extended nanofluidic immunochemical reaction with femtoliter sample volumes. <i>Small</i> , 2014 , 10, 1514-22	21	58
86	Synergistic effect between TiO ₂ and ubiquitous metal oxides on photocatalytic activity of composite nanostructures. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 393-397	1	15
85	Determination of cattle foot-and-mouth disease virus by micro-ELISA method. <i>Analytical Sciences</i> , 2014 , 30, 359-63	1.7	5
84	Evanescent wave-based particle tracking velocimetry for nanochannel flows. <i>Analytical Chemistry</i> , 2013 , 85, 10780-6	7.8	25

83	Numerical simulation of proton distribution with electric double layer in extended nanospaces. <i>Analytical Chemistry</i> , 2013 , 85, 4468-74	7.8	25
82	Bonding of glass nanofluidic chips at room temperature by a one-step surface activation using an O ₂ /CF ₄ plasma treatment. <i>Lab on A Chip</i> , 2013 , 13, 1048-52	7.2	68
81	Microchip-based cellular biochemical systems for practical applications and fundamental research: from microfluidics to nanofluidics. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 99-107	4.4	37
80	Low-temperature direct bonding of glass nanofluidic chips using a two-step plasma surface activation process. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1011-8	4.4	65
79	Direct measurements of the saturated vapor pressure of water confined in extended nanospaces using capillary evaporation phenomena. <i>RSC Advances</i> , 2012 , 2, 3184	3.7	15
78	Femtoliter droplet handling in nanofluidic channels: a Laplace nanovalve. <i>Analytical Chemistry</i> , 2012 , 84, 10812-6	7.8	34
77	Microflow Systems for Chemical Synthesis and Analysis: Approaches to Full Integration of Chemical Process. <i>Journal of Flow Chemistry</i> , 2012 , 1, 3-12	3.3	34
76	Reply to Comment on Development of Measurement Technique for Ion Distribution in Extended Nanochannel by Super Resolution-Laser Induced Fluorescence <i>Analytical Chemistry</i> , 2012 , 84, 10855-10855	7.8	3
75	Viscosity and Wetting Property of Water Confined in Extended Nanospace Simultaneously Measured from Highly-Pressurized Meniscus Motion. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2447-52	6.4	79
74	Desktop near-field thermal-lens microscope for thermo-optical detection in microfluidics. <i>Electrophoresis</i> , 2012 , 33, 2748-51	3.6	12
73	Micropatterning of biomolecules on a glass substrate in fused silica microchannels by using photolabile linker-based surface activation. <i>Mikrochimica Acta</i> , 2012 , 179, 49-55	5.8	9
72	Highly efficient and ultra-small volume separation by pressure-driven liquid chromatography in extended nanochannels. <i>Small</i> , 2012 , 8, 1237-42	11	50
71	A palmtop-sized microfluidic cell culture system driven by a miniaturized infusion pump. <i>Electrophoresis</i> , 2012 , 33, 1729-35	3.6	30
70	Enhancement of proton mobility in extended-nanospace channels. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3573-7	16.4	52
69	Development of a pressure-driven injection system for precisely time controlled attoliter sample injection into extended nanochannels. <i>Journal of Chromatography A</i> , 2012 , 1228, 51-6	4.5	28
68	High resolution separation by pressure-driven liquid chromatography in meander extended nanochannels. <i>Journal of Chromatography A</i> , 2012 , 1238, 152-5	4.5	18
67	Selective cell capture and analysis using shallow antibody-coated microchannels. <i>Biomicrofluidics</i> , 2012 , 6, 44117	3.2	7
66	Sensitive gas analysis system on a microchip and application for on-site monitoring of NH ₃ in a clean room. <i>Analytical Chemistry</i> , 2011 , 83, 5017-22	7.8	19

65	Rapid screening swine foot-and-mouth disease virus using micro-ELISA system. <i>Lab on A Chip</i> , 2011 , 11, 2153-5	7.2	13
64	Experimental investigation of droplet acceleration and collision in the gas phase in a microchannel. <i>Lab on A Chip</i> , 2011 , 11, 3098-105	7.2	2
63	Microchip-based plasma separation from whole blood via axial migration of blood cells. <i>Analytical Sciences</i> , 2011 , 27, 1173-8	1.7	10
62	Basic structure and cell culture condition of a bioartificial renal tubule on chip towards a cell-based separation microdevice. <i>Analytical Sciences</i> , 2011 , 27, 907-12	1.7	14
61	Development of a microfluidic platform for single-cell secretion analysis using a direct photoactive cell-attaching method. <i>Analytical Sciences</i> , 2011 , 27, 973-8	1.7	9
60	Microfluidic extraction of copper from particle-laden solutions. <i>International Journal of Mineral Processing</i> , 2011 , 98, 168-173		49
59	Detection of nonfluorescent molecules using differential interference contrast thermal lens microscope for extended nanochannel chromatography. <i>Journal of Separation Science</i> , 2011 , 34, 2920-4	3.4	11
58	Extended nanospace chemical systems on a chip for new analytical technology. <i>Analyst, The</i> , 2011 , 136, 3051-9	5	7
57	Thermal lens detection device. <i>Lab on A Chip</i> , 2011 , 11, 2990-3	7.2	17
56	Development of a measurement technique for ion distribution in an extended nanochannel by super-resolution-laser-induced fluorescence. <i>Analytical Chemistry</i> , 2011 , 83, 8152-7	7.8	43
55	Single-molecule DNA patterning and detection by padlock probing and rolling circle amplification in microchannels for analysis of small sample volumes. <i>Analytical Chemistry</i> , 2011 , 83, 3352-7	7.8	26
54	Cultivation and recovery of vascular endothelial cells in microchannels of a separable micro-chemical chip. <i>Biomaterials</i> , 2011 , 32, 2459-65	15.6	26
53	Optical near-field induced visible response photoelectrochemical water splitting on nanorod TiO ₂ . <i>Applied Physics Letters</i> , 2011 , 99, 213105	3.4	14
52	Shift of isoelectric point in extended nanospace investigated by streaming current measurement. <i>Applied Physics Letters</i> , 2011 , 99, 123115	3.4	14
51	Micro and Nano Chemical Systems. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2011 , 69, 526-533	0.2	5
50	Single-cell attachment and culture method using a photochemical reaction in a closed microfluidic system. <i>Biomicrofluidics</i> , 2010 , 4, 32208	3.2	32
49	Sensitive determination of concentration of nonfluorescent species in an extended-nano channel by differential interference contrast thermal lens microscope. <i>Analytical Chemistry</i> , 2010 , 82, 7479-84	7.8	35
48	Femto liquid chromatography with attoliter sample separation in the extended nanospace channel. <i>Analytical Chemistry</i> , 2010 , 82, 543-7	7.8	58

47	Integrated extended-nano chemical systems on a chip. <i>Chemical Society Reviews</i> , 2010 , 39, 1000-13	58.5	81
46	Reactor design optimization for direct synthesis of hydrogen peroxide. <i>Chemical Engineering Journal</i> , 2010 , 160, 909-914	14.7	33
45	Microbead-based rolling circle amplification in a microchip for sensitive DNA detection. <i>Lab on A Chip</i> , 2010 , 10, 1262-6	7.2	88
44	Streaming potential/current measurement system for investigation of liquids confined in extended-nanospace. <i>Lab on A Chip</i> , 2010 , 10, 871-5	7.2	36
43	On-chip antibody immobilization for on-demand and rapid immunoassay on a microfluidic chip. <i>Biomicrofluidics</i> , 2010 , 4, 32207	3.2	11
42	Micro OS-ELISA: Rapid noncompetitive detection of a small biomarker peptide by open-sandwich enzyme-linked immunosorbent assay (OS-ELISA) integrated into microfluidic device. <i>Lab on A Chip</i> , 2010 , 10, 92-100	7.2	34
41	Extended-nano fluidic systems for analytical and chemical technologies. <i>Nanoscale</i> , 2010 , 2, 1588-95	7.7	20
40	An efficient surface modification using 2-methacryloyloxyethyl phosphorylcholine to control cell attachment via photochemical reaction in a microchannel. <i>Lab on A Chip</i> , 2010 , 10, 1937-45	7.2	33
39	Development of a micro droplet collider; the liquid-liquid system utilizing the spatial-temporal localized energy. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 945-953	2.8	8
38	A microfluidic hydrogel capable of cell preservation without perfusion culture under cell-based assay conditions. <i>Advanced Materials</i> , 2010 , 22, 3017-21	24	45
37	The biological performance of cell-containing phospholipid polymer hydrogels in bulk and microscale form. <i>Biomaterials</i> , 2010 , 31, 8839-46	15.6	23
36	Lateral spatial resolution of thermal lens microscopy during continuous scanning for nonstaining biofilm imaging. <i>Journal of Applied Physics</i> , 2009 , 105, 102030	2.5	4
35	Electrochemical studies on liquid properties in extended nanospaces using mercury microelectrodes. <i>Electrophoresis</i> , 2009 , 30, 3212-8	3.6	22
34	Graft linker immobilization for spatial control of protein immobilization inside fused microchips. <i>Electrophoresis</i> , 2009 , 30, 4251-5	3.6	3
33	Circulation microchannel for liquid-liquid microextraction. <i>Mikrochimica Acta</i> , 2009 , 164, 241-247	5.8	25
32	Integration of immunoassay into extended nanospace. <i>Mikrochimica Acta</i> , 2009 , 164, 307-310	5.8	21
31	Phase separation of gas-liquid and liquid-liquid microflows in microchips. <i>Mikrochimica Acta</i> , 2009 , 164, 249-255	5.8	29
30	Hands on: thermal bonding of nano- and microfluidic chips. <i>Mikrochimica Acta</i> , 2009 , 166, 177-181	5.8	18

29	Rapid analysis of methamphetamine in hair by micropulverized extraction and microchip-based competitive ELISA. <i>Forensic Science International</i> , 2009 , 184, 1-5	2.6	48
28	Surface modification by 2-methacryloyloxyethyl phosphorylcholine coupled to a photolabile linker for cell micropatterning. <i>Biomaterials</i> , 2009 , 30, 1413-20	15.6	74
27	Development of a differential interference contrast thermal lens microscope for sensitive individual nanoparticle detection in liquid. <i>Analytical Chemistry</i> , 2009 , 81, 9802-6	7.8	33
26	Serial DNA immobilization in micro- and extended nanospace channels. <i>Lab on A Chip</i> , 2009 , 9, 1517-23	7.2	25
25	NMR studies of structure and dynamics of liquid molecules confined in extended nanospaces. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10808-16	3.4	82
24	Parallel multiphase microflows: fundamental physics, stabilization methods and applications. <i>Lab on A Chip</i> , 2009 , 9, 2470-6	7.2	68
23	A micro-ELISA system for the rapid and sensitive measurement of total and specific immunoglobulin E and clinical application to allergy diagnosis. <i>Lab on A Chip</i> , 2009 , 9, 991-5	7.2	70
22	The Direct Synthesis of Hydrogen Peroxide (ca. 5 wt %) from Hydrogen and Oxygen by Microreactor Technology. <i>Chemistry Letters</i> , 2009 , 38, 820-821	1.7	13
21	Development of a micro-potentiometric sensor for the microchip analysis of alkali ions. <i>Analytical Sciences</i> , 2009 , 25, 1397-401	1.7	
20	Individual nanoparticle detection in liquids by thermal lens microscopy and improvement of detection efficiency using a 1-microm microfluidic channel. <i>Analytical Sciences</i> , 2009 , 25, 275-8	1.7	13
19	Microchip-based cell analysis and clinical diagnosis system. <i>Lab on A Chip</i> , 2008 , 8, 1992-8	7.2	45
18	Microfluidic Distillation Utilizing MicroNano Combined Structure. <i>Chemistry Letters</i> , 2008 , 37, 1064-1065	1.7	43
17	Circular dichroism thermal lens microscope in the UV wavelength region (UV-CD-TLM) for chiral analysis on a microchip. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2521-6	4.4	14
16	Development of a pressure-driven nanofluidic control system and its application to an enzymatic reaction. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2745-52	4.4	76
15	Numerical analysis of thermal lens effect for sensitive detection on microchips. <i>Electrophoresis</i> , 2008 , 29, 1895-901	3.6	9
14	Flowing thermal lens micro-flow velocimeter. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 91-96	8.5	16
13	Highly Sensitive Detection of Non-Labeled Peptides Using UV Excitation Thermal Lens Microscope/Liquid Chromatography. <i>Bunseki Kagaku</i> , 2007 , 56, 1-7	0.2	3
12	Reflective thermal lens detection device. <i>Lab on A Chip</i> , 2006 , 6, 127-30	7.2	3

11	UV excitation thermal lens microscope for sensitive and nonlabeled detection of nonfluorescent molecules. <i>Analytical Chemistry</i> , 2006 , 78, 2859-63	7.8	45
10	Circular dichroism thermal lens microscope for sensitive chiral analysis on microchip. <i>Analytical Chemistry</i> , 2006 , 78, 2646-50	7.8	32
9	Quantitative detection and fixation of single and multiple gold nanoparticles on a microfluidic chip by thermal lens microscope. <i>Analytical Sciences</i> , 2006 , 22, 781-4	1.7	12
8	Micro-multiphase laminar flows for the extraction and detection of carbaryl derivative. <i>Analytica Chimica Acta</i> , 2006 , 558, 69-74	6.6	57
7	Portable thermal lens spectrometer with focusing system. <i>Analytical Chemistry</i> , 2005 , 77, 687-92	7.8	11
6	Fluorimetric determination of isatin in human urine and serum by liquid chromatography postcolumn photoirradiation. <i>Analyst, The</i> , 2001 , 126, 33-6	5	24
5	Novel mutations in ABCA1 gene in Japanese patients with Tangier disease and familial high density lipoprotein deficiency with coronary heart disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2001 , 1537, 71-8	6.9	28
4	Determination of N1-methylnicotinamide by HPLC postcolumn photoirradiation. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 467, 817-9	3.6	
3	Individual detection of single-nanometer-sized particles in liquid by photothermal microscope. <i>Analytical Chemistry</i> , 1998 , 70, 5037-41	7.8	71
2	Determination of disodium cromoglycate in human urine by high-performance liquid chromatography with post-column photoirradiation-fluorescence detection. <i>Analyst, The</i> , 1997 , 122, 715-7	5	15
1	Fluorimetric determination of nicorandil in human plasma by a high-performance liquid chromatographic-postcolumn ultraviolet irradiation [corrected] system equipped with on-line back-pressure tubing. <i>Biomedical Applications</i> , 1996 , 679, 155-9		8