

K Mawatari

List of Publications by Year in descending order

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159
papers

4,913
citations

94269

37
h-index

118652

62
g-index

160
all docs

160
docs citations

160
times ranked

4961
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic generation of hydrogen by core-shell WO ₃ /BiVO ₄ nanorods with ultimate water splitting efficiency. <i>Scientific Reports</i> , 2015, 5, 11141.	1.6	464
2	Nanostructured WO ₃ /BiVO ₄ Photoanodes for Efficient Photoelectrochemical Water Splitting. <i>Small</i> , 2014, 10, 3692-3699.	5.2	217
3	Detection of an oxygen emission line from a high-redshift galaxy in the reionization epoch. <i>Science</i> , 2016, 352, 1559-1562.	6.0	173
4	Extended-Nanofluidics: Fundamental Technologies, Unique Liquid Properties, and Application in Chemical and Bio Analysis Methods and Devices. <i>Analytical Chemistry</i> , 2014, 86, 4068-4077.	3.2	108
5	NMR Studies of Structure and Dynamics of Liquid Molecules Confined in Extended Nanospaces. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10808-10816.	1.2	95
6	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, 2447-2452.	2.1	94
7	Integrated extended-nano chemical systems on a chip. <i>Chemical Society Reviews</i> , 2010, 39, 1000.	18.7	92
8	Microbead-based rolling circle amplification in a microchip for sensitive DNA detection. <i>Lab on A Chip</i> , 2010, 10, 1262.	3.1	90
9	Development of a pressure-driven nanofluidic control system and its application to an enzymatic reaction. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2745-2752.	1.9	85
10	Individual Detection of Single-Nanometer-Sized Particles in Liquid by Photothermal Microscope. <i>Analytical Chemistry</i> , 1998, 70, 5037-5041.	3.2	84
11	Parallel multiphase microflows: fundamental physics, stabilization methods and applications. <i>Lab on A Chip</i> , 2009, 9, 2470.	3.1	82
12	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.	3.1	81
13	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.	3.1	81
14	Low-temperature direct bonding of glass nanofluidic chips using a two-step plasma surface activation process. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1011-1018.	1.9	80
15	Surface modification by 2-methacryloyloxyethyl phosphorylcholine coupled to a photolabile linker for cell micropatterning. <i>Biomaterials</i> , 2009, 30, 1413-1420.	5.7	77
16	Extended Nanofluidic Immunochemical Reaction with Femtoliter Sample Volumes. <i>Small</i> , 2014, 10, 1514-1522.	5.2	69
17	Enhancement of Proton Mobility in Extended Nanospace Channels. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3573-3577.	7.2	67
18	Femto Liquid Chromatography with Attoliter Sample Separation in the Extended Nanospace Channel. <i>Analytical Chemistry</i> , 2010, 82, 543-547.	3.2	66

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19	Micro-multiphase laminar flows for the extraction and detection of carbaryl derivative. <i>Analytica Chimica Acta</i> , 2006, 558, 69-74.	2.6	65
20	Highly Efficient and Ultra-small Volume Separation by Pressure-Driven Liquid Chromatography in Extended Nanochannels. <i>Small</i> , 2012, 8, 1237-1242.	5.2	64
21	Microfluidic extraction of copper from particle-laden solutions. <i>International Journal of Mineral Processing</i> , 2011, 98, 168-173.	2.6	55
22	UV Excitation Thermal Lens Microscope for Sensitive and Nonlabeled Detection of Nonfluorescent Molecules. <i>Analytical Chemistry</i> , 2006, 78, 2859-2863.	3.2	52
23	Rapid analysis of methamphetamine in hair by micropulverized extraction and microchip-based competitive ELISA. <i>Forensic Science International</i> , 2009, 184, 1-5.	1.3	52
24	A single-molecule ELISA device utilizing nanofluidics. <i>Analyst</i> , The, 2018, 143, 943-948.	1.7	52
25	The absence of [Câ€‰%<sc>i>] 158â€‰%\$mu\$m emission in spectroscopically confirmed galaxies at <i> > 8. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 487, L81-L85.	1.2	52
26	A Microfluidic Hydrogel Capable of Cell Preservation without Perfusion Culture under Cell-Based Assay Conditions. <i>Advanced Materials</i> , 2010, 22, 3017-3021.	11.1	51
27	Development of a Measurement Technique for Ion Distribution in an Extended Nanochannel by Super-Resolution-Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2011, 83, 8152-8157.	3.2	51
28	Streaming potential/current measurement system for investigation of liquids confined in extended-nanospace. <i>Lab on A Chip</i> , 2010, 10, 871.	3.1	48
29	Microchip-based cell analysis and clinical diagnosis system. <i>Lab on A Chip</i> , 2008, 8, 1992.	3.1	47
30	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, 7479-7484.	3.2	47
31	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.	2.9	47
32	Microfluidic Distillation Utilizing Micro-Nano Combined Structure. <i>Chemistry Letters</i> , 2008, 37, 1064-1065.	0.7	46
33	Femtoliter Droplet Handling in Nanofluidic Channels: A Laplace Nanovalve. <i>Analytical Chemistry</i> , 2012, 84, 10812-10816.	3.2	46
34	Microflow Systems for Chemical Synthesis and Analysis: Approaches to Full Integration of Chemical Process. <i>Journal of Flow Chemistry</i> , 2012, 1, 3-12.	1.2	43
35	Evanescent Wave-Based Particle Tracking Velocimetry for Nanochannel Flows. <i>Analytical Chemistry</i> , 2013, 85, 10780-10786.	3.2	43
36	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.	1.9	41

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37	Development of a Differential Interference Contrast Thermal Lens Microscope for Sensitive Individual Nanoparticle Detection in Liquid. <i>Analytical Chemistry</i> , 2009, 81, 9802-9806.	3.2	39
38	Circular Dichroism Thermal Lens Microscope for Sensitive Chiral Analysis on Microchip. <i>Analytical Chemistry</i> , 2006, 78, 2646-2650.	3.2	38
39	Micro OS-ELISA: Rapid noncompetitive detection of a small biomarkerpeptide by open-sandwich enzyme-linked immunosorbent assay (OS-ELISA) integrated into microfluidic device. <i>Lab on A Chip</i> , 2010, 10, 92-100.	3.1	38
40	A palmtoâ€sized microfluidic cell culture system driven by a miniaturized infusion pump. <i>Electrophoresis</i> , 2012, 33, 1729-1735.	1.3	38
41	Cell sheet mechanics: How geometrical constraints induce the detachment of cell sheets from concave surfaces. <i>Acta Biomaterialia</i> , 2016, 45, 85-97.	4.1	38
42	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.	3.1	37
43	Dielectric Constant of Liquids Confined in the Extended Nanospace Measured by a Streaming Potential Method. <i>Analytical Chemistry</i> , 2015, 87, 1475-1479.	3.2	37
44	Phase separation of gasâ€liquid and liquidâ€liquid microflows in microchips. <i>Mikrochimica Acta</i> , 2009, 164, 249-255.	2.5	36
45	Reactor design optimization for direct synthesis of hydrogen peroxide. <i>Chemical Engineering Journal</i> , 2010, 160, 909-914.	6.6	35
46	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, 51-56.	1.8	35
47	Metamaterials-Enhanced Infrared Spectroscopic Study of Nanoconfined Molecules by Plasmonicsâ€Nanofluidics Hybrid Device. <i>ACS Photonics</i> , 2018, 5, 3179-3188.	3.2	35
48	Femtoliter nanofluidic valve utilizing glass deformation. <i>Lab on A Chip</i> , 2019, 19, 1686-1694.	3.1	34
49	Single-cell attachment and culture method using a photochemical reaction in a closed microfluidic system. <i>Biomicrofluidics</i> , 2010, 4, 032208.	1.2	33
50	Cultivation and recovery of vascular endothelial cells in microchannels of a separable micro-chemical chip. <i>Biomaterials</i> , 2011, 32, 2459-2465.	5.7	32
51	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, 71-78.	1.8	31
52	Numerical Simulation of Proton Distribution with Electric Double Layer in Extended Nanospaces. <i>Analytical Chemistry</i> , 2013, 85, 4468-4474.	3.2	30
53	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, 3352-3357.	3.2	28
54	Tandem photovoltaicâ€photoelectrochemical GaAs/InGaAsPâ€WO ₃ /BiVO ₄ device for solar hydrogen generation. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04ES01.	0.8	28

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55	Serial DNA immobilization in micro- and extended nanospace channels. <i>Lab on A Chip</i> , 2009, 9, 1517.	3.1	27
56	Fluorimetric determination of isatin in human urine and serum by liquid chromatography postcolumn photoirradiation. <i>Analyst, The</i> , 2001, 126, 33-36.	1.7	26
57	Circulation microchannel for liquid-liquid microextraction. <i>Mikrochimica Acta</i> , 2009, 164, 241-247.	2.5	26
58	The biological performance of cell-containing phospholipid polymer hydrogels in bulk and microscale form. <i>Biomaterials</i> , 2010, 31, 8839-8846.	5.7	26
59	Extended-nano fluidic systems for analytical and chemical technologies. <i>Nanoscale</i> , 2010, 2, 1588.	2.8	26
60	Thermal lens microscopy as a detector in microdevices. <i>Electrophoresis</i> , 2014, 35, 2279-2291.	1.3	26
61	Electrochemical studies on liquid properties in extended nanospaces using mercury microelectrodes. <i>Electrophoresis</i> , 2009, 30, 3212-3218.	1.3	25
62	From Extended Nanofluidics to an Autonomous Solar-Light-Driven Micro Fuel-Cell Device. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8130-8133.	7.2	25
63	Hands on: thermal bonding of nano- and microfluidic chips. <i>Mikrochimica Acta</i> , 2009, 166, 177-181.	2.5	24
64	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, 23089-23097.	4.0	24
65	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.	1.6	24
66	Detachable glass micro/nanofluidic device. <i>Biomicrofluidics</i> , 2019, 13, 024104.	1.2	23
67	Thermal lens detection device. <i>Lab on A Chip</i> , 2011, 11, 2990.	3.1	22
68	Femtoliter-scale separation and sensitive detection of nonfluorescent samples in an extended-nano fluidic device. <i>Analyst, The</i> , 2014, 139, 2154-2157.	1.7	22
69	Behavior of Nanoparticles in Extended Nanospace Measured by Evanescent Wave-Based Particle Velocimetry. <i>Analytical Chemistry</i> , 2015, 87, 4087-4091.	3.2	22
70	Micro/extended-nano sampling interface from a living single cell. <i>Analyst, The</i> , 2017, 142, 1689-1696.	1.7	22
71	Extended-nano chromatography. <i>Journal of Chromatography A</i> , 2017, 1490, 11-20.	1.8	22
72	Integration of immunoassay into extended nanospace. <i>Mikrochimica Acta</i> , 2009, 164, 307-310.	2.5	21

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73	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, 5017-5022.	3.2	21
74	Shift of isoelectric point in extended nanospace investigated by streaming current measurement. <i>Applied Physics Letters</i> , 2011, 99, 123115.	1.5	21
75	High resolution separation by pressure-driven liquid chromatography in meander extended nanochannels. <i>Journal of Chromatography A</i> , 2012, 1238, 152-155.	1.8	21
76	On-Chip Step-Mixing in a T-Nanomixer for Liquid Chromatography in Extended-Nanochannels. <i>Analytical Chemistry</i> , 2016, 88, 10059-10064.	3.2	21
77	Determination of Disodium Cromoglycate in Human Urine by High-performance Liquid Chromatography With Post-column Photoirradiation-Fluorescence Detection. <i>Analyst</i> , The, 1997, 122, 715-717.	1.7	20
78	Femtoliter high-performance liquid chromatography using extended-nano channels. <i>Analyst</i> , The, 2016, 141, 6068-6072.	1.7	20
79	Femtoliter Gradient Elution System for Liquid Chromatography Utilizing Extended Nanofluidics. <i>Analytical Chemistry</i> , 2019, 91, 3009-3014.	3.2	20
80	Direct measurements of the saturated vapor pressure of water confined in extended nanospaces using capillary evaporation phenomena. <i>RSC Advances</i> , 2012, 2, 3184.	1.7	19
81	Individual Nanoparticle Detection in Liquids by Thermal Lens Microscopy and Improvement of Detection Efficiency Using a 1¼m Microfluidic Channel. <i>Analytical Sciences</i> , 2009, 25, 275-278.	0.8	18
82	Optical near-field induced visible response photoelectrochemical water splitting on nanorod TiO ₂ . <i>Applied Physics Letters</i> , 2011, 99, .	1.5	18
83	Detection of zeptomole quantities of nonfluorescent molecules in a 101 nm nanochannel by thermal lens microscopy. <i>Analyst</i> , The, 2014, 139, 2721.	1.7	18
84	Keto-Enol Tautomeric Equilibrium of Acetylacetone Solution Confined in Extended Nanospaces. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14750-14755.	1.2	18
85	Living Single Cell Analysis Platform Utilizing Microchannel, Single Cell Chamber, and Extended-nano Channel. <i>Analytical Sciences</i> , 2016, 32, 75-78.	0.8	18
86	Portable Thermal Lens Spectrometer with Focusing System. <i>Analytical Chemistry</i> , 2005, 77, 687-692.	3.2	17
87	Flowing thermal lens micro-flow velocimeter. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 91-96.	4.0	17
88	Detection of nonfluorescent molecules using differential interference contrast thermal lens microscope for extended nanochannel chromatography. <i>Journal of Separation Science</i> , 2011, 34, 2920-2924.	1.3	17
89	Reversed-phase chromatography in extended-nano space for the separation of amino acids. <i>Journal of Chromatography A</i> , 2015, 1418, 224-227.	1.8	17
90	Nonfluorescent Molecule Detection in 10 ² nm Nanofluidic Channels by Photothermal Optical Diffraction. <i>Analytical Chemistry</i> , 2019, 91, 9741-9746.	3.2	17

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91	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.	2.9	17
92	On-chip antibody immobilization for on-demand and rapid immunoassay on a microfluidic chip. <i>Biomicrofluidics</i> , 2010, 4, 32207.	1.2	16
93	Rapid screening swine foot-and-mouth disease virus using micro-ELISA system. <i>Lab on A Chip</i> , 2011, 11, 2153.	3.1	16
94	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, 907-912.	0.8	16
95	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.	0.5	16
96	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.	3.1	16
97	Quantitative Detection and Fixation of Single and Multiple Gold Nanoparticles on a Microfluidic Chip by Thermal Lens Microscope. <i>Analytical Sciences</i> , 2006, 22, 781-784.	0.8	15
98	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, 2521-2526.	1.9	15
99	The Direct Synthesis of Hydrogen Peroxide (ca. 5 wt %) from Hydrogen and Oxygen by Microreactor Technology. <i>Chemistry Letters</i> , 2009, 38, 820-821.	0.7	15
100	Microchip-based Plasma Separation from Whole Blood via Axial Migration of Blood Cells. <i>Analytical Sciences</i> , 2011, 27, 1173-1178.	0.8	15
101	Nanochannel chromatography and photothermal optical diffraction: Femtoliter sample separation and label-free zeptomole detection. <i>Journal of Chromatography A</i> , 2020, 1624, 461265.	1.8	15
102	Desktop near-field thermal lens microscope for photothermal detection in microfluidics. <i>Electrophoresis</i> , 2012, 33, 2748-2751.	1.3	14
103	Femtoliter Volumetric Pipette and Flask Utilizing Nanofluidics. <i>Analyst, The</i> , 2020, 145, 2669-2675.	1.7	14
104	Ubiquitous element approach to plasmonic enhanced photocatalytic water splitting: the case of TiO ₂ core-shell nanostructure. <i>Nanotechnology</i> , 2014, 25, 315402.	1.3	13
105	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.	3.2	13
106	Clogging-Free Irreversible Bonding of Polycarbonate Membranes to Glass Microfluidic Devices. <i>Journal of the Electrochemical Society</i> , 2017, 164, B3087-B3090.	1.3	13
107	Whole blood analysis using microfluidic plasma separation and enzyme-linked immunosorbent assay devices. <i>Analytical Methods</i> , 2016, 8, 7597-7602.	1.3	11
108	Ultrasensitive detection of nonlabelled bovine serum albumin using photothermal optical phase shift detection with UV excitation. <i>Analyst, The</i> , 2020, 145, 2580-2585.	1.7	11

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109	Numerical analysis of thermal lens effect for sensitive detection on microchips. <i>Electrophoresis</i> , 2008, 29, 1895-1901.	1.3	10
110	Development of a Microfluidic Platform for Single-cell Secretion Analysis Using a Direct Photoactive Cell-attaching Method. <i>Analytical Sciences</i> , 2011, 27, 973-978.	0.8	10
111	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.	2.5	10
112	Micro heat pipe device utilizing extended nanofluidics. <i>RSC Advances</i> , 2017, 7, 50591-50597.	1.7	10
113	Nano X-ray diffractometry device for nanofluidics. <i>Lab on A Chip</i> , 2018, 18, 1259-1264.	3.1	10
114	Enzyme-linked immunosorbent assay utilizing thin-layered microfluidics. <i>Analyst, The</i> , 2019, 144, 6625-6634.	1.7	10
115	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.	2.1	10
116	Fluorimetric determination of nicorandil in human plasma by a high-performance liquid chromatographic-postcolumn ultraviolet detection system equipped with on-line back-pressure tubing. <i>Biomedical Applications</i> , 1996, 679, 155-159.	1.7	9
117	Selective cell capture and analysis using shallow antibody-coated microchannels. <i>Biomicrofluidics</i> , 2012, 6, 044117.	1.2	9
118	From Extended Nanofluidics to an Autonomous Solarâ€Lightâ€Driven Micro Fuelâ€Cell Device. <i>Angewandte Chemie</i> , 2017, 129, 8242-8245.	1.6	9
119	Development of a micro droplet collider; the liquidâ€liquid system utilizing the spatialâ€temporal localized energy. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 945-953.	1.0	8
120	Extended nanospace chemical systems on a chip for new analytical technology. <i>Analyst, The</i> , 2011, 136, 3051.	1.7	8
121	Rapid alteration of serum interleukinâ€6 levels may predict the reactivity of i.v. cyclophosphamide pulse therapy in systemic sclerosisâ€associated interstitial lung disease. <i>Journal of Dermatology</i> , 2018, 45, 1221-1224.	0.6	8
122	Detection and Characterization of Individual Nanoparticles in a Liquid by Photothermal Optical Diffraction and Nanofluidics. <i>Analytical Chemistry</i> , 2020, 92, 3434-3439.	3.2	8
123	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.	2.8	8
124	Micro and Nano Chemical Systems. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2011, 69, 526-533.	0.0	8
125	Water structure in 100Ånm nanochannels revealed by nano X-ray diffractometry and Raman spectroscopy. <i>Journal of Molecular Liquids</i> , 2022, 350, 118567.	2.3	8
126	Communicationâ€Evaporation Driven Micro/Nanofluidic Pumping Device. <i>Journal of the Electrochemical Society</i> , 2018, 165, B184-B186.	1.3	7

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127	Characterization of optical diffraction by single nanochannel for aL sample detection in nanofluidics. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	7
128	Reversed-phase Chromatography in an Extended Nanospace: Separating Amino Acids in Short and Long Nanochannels. <i>Analytical Sciences</i> , 2015, 31, 1201-1204.	0.8	6
129	A sensitive and rapid assay of BNP in patient blood by micro-ELISA. <i>Analytical Methods</i> , 2017, 9, 2830-2834.	1.3	6
130	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.	1.2	6
131	Determination of Cattle Foot-and-Mouth Disease Virus by Micro-ELISA Method. <i>Analytical Sciences</i> , 2014, 30, 359-363.	0.8	5
132	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.	1.0	5
133	Transport of a Micro Liquid Plug in a Gas-Phase Flow in a Microchannel. <i>Micromachines</i> , 2018, 9, 423.	1.4	5
134	Concentration Determination at a Countable Molecular Level in Nanofluidics by Solvent-Enhanced Photothermal Optical Diffraction. <i>Analytical Chemistry</i> , 2020, 92, 14366-14372.	3.2	5
135	Nano-bubble Valve. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	1.0	5
136	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.	1.5	5
137	Reflective thermal lens detection device. <i>Lab on A Chip</i> , 2006, 6, 127-130.	3.1	4
138	Highly Sensitive Detection of Non-Labeled Peptides Using UV Excitation Thermal Lens Microscope/Liquid Chromatography. <i>Bunseki Kagaku</i> , 2007, 56, 1-7.	0.1	4
139	Lateral spatial resolution of thermal lens microscopy during continuous scanning for nonstaining biofilm imaging. <i>Journal of Applied Physics</i> , 2009, 105, 102030.	1.1	4
140	High-Pressure Acceleration of Nanoliter Droplets in the Gas Phase in a Microchannel. <i>Micromachines</i> , 2016, 7, 142.	1.4	4
141	Graft linker immobilization for spatial control of protein immobilization inside fused microchips. <i>Electrophoresis</i> , 2009, 30, 4251-4255.	1.3	3
142	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.	3.2	3
143	A competitive microfluidic immunological clenbuterol analysis using a microELISA system. <i>RSC Advances</i> , 2014, 4, 39894.	1.7	3
144	Diffraction-based label-free photothermal detector for separation analyses in a nanocapillary. <i>Journal of Chromatography A</i> , 2021, 1648, 462214.	1.8	3

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145	Experimental investigation of droplet acceleration and collision in the gas phase in a microchannel. Lab on A Chip, 2011, 11, 3098.	3.1	2
146	Structure and Dynamics of Water and Nonaqueous Solvents Confined in Extended Nanospaces Characterized by NMR Spectroscopy. Bunseki Kagaku, 2015, 64, 261-271.	0.1	2
147	Analytical Method by Micro-ELISA for Small Amount of Patient Sample. Bunseki Kagaku, 2015, 64, 461-468.	0.1	2
148	Novel sub-100Ånm surface chemical modification by optical near-field induced photocatalytic reaction. Microfluidics and Nanofluidics, 2014, 17, 751-758.	1.0	1
149	Low-temperature bonded glass-membrane microfluidic device for in vitro organ-on-a-chip cell culture models. Proceedings of SPIE, 2015, , .	0.8	1
150	Ferroelectric Extended Nanofluidic Channels for Room-temperature Microfuel Cells. Advanced Materials Technologies, 2019, 4, 1900252.	3.0	1
151	UV and circular dichroism thermal lens microscope for integrated chemical systems and HPLC on microchip. , 2005, , .		0
152	Functional thermal lens microscopes for ultrasensitive analysis of non-fluorescent molecules and microchip chemistry. , 2006, , .		0
153	Development of a Micro-Potentiometric Sensor for the Microchip Analysis of Alkali Ions. Analytical Sciences, 2009, 25, 1397-1401.	0.8	0
154	Extended-Nanofluidic Devices and the Unique Liquid Properties - Invited Paper. Solid State Phenomena, 0, 255, 157-160.	0.3	0
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