

K Mawatari

List of Publications by Citations

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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 | 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 |
| 153 | Nanostructured WO ₃ /BiVO ₄ photoanodes for efficient photoelectrochemical water splitting. <i>Small</i> , 2014 , 10, 3692-9 | 11 | 191 |
| 152 | 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 |
| 151 | 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 |
| 150 | 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 |
| 149 | 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 |
| 148 | Integrated extended-nano chemical systems on a chip. <i>Chemical Society Reviews</i> , 2010 , 39, 1000-13 | 58.5 | 81 |
| 147 | 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 |
| 146 | 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 |
| 145 | Surface modification by 2-methacryloyloxyethyl phosphorylcholine coupled to a photolabile linker for cell micropatterning. <i>Biomaterials</i> , 2009 , 30, 1413-20 | 15.6 | 74 |
| 144 | Individual detection of single-nanometer-sized particles in liquid by photothermal microscope. <i>Analytical Chemistry</i> , 1998 , 70, 5037-41 | 7.8 | 71 |
| 143 | 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 |
| 142 | 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 |
| 141 | Parallel multiphase microflows: fundamental physics, stabilization methods and applications. <i>Lab on A Chip</i> , 2009 , 9, 2470-6 | 7.2 | 68 |
| 140 | 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 |
| 139 | Extended nanofluidic immunochemical reaction with femtoliter sample volumes. <i>Small</i> , 2014 , 10, 1514-22 | 11 | 58 |
| 138 | Femto liquid chromatography with attoliter sample separation in the extended nanospace channel. <i>Analytical Chemistry</i> , 2010 , 82, 543-7 | 7.8 | 58 |

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| 137 | Micro-multiphase laminar flows for the extraction and detection of carbaryl derivative. <i>Analytica Chimica Acta</i> , 2006 , 558, 69-74 | 6.6 | 57 |
| 136 | Enhancement of proton mobility in extended-nanospace channels. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3573-7 | 16.4 | 52 |
| 135 | Highly efficient and ultra-small volume separation by pressure-driven liquid chromatography in extended nanochannels. <i>Small</i> , 2012 , 8, 1237-42 | 11 | 50 |
| 134 | Microfluidic extraction of copper from particle-laden solutions. <i>International Journal of Mineral Processing</i> , 2011 , 98, 168-173 | | 49 |
| 133 | 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 |
| 132 | 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 |
| 131 | Microchip-based cell analysis and clinical diagnosis system. <i>Lab on A Chip</i> , 2008 , 8, 1992-8 | 7.2 | 45 |
| 130 | UV excitation thermal lens microscope for sensitive and nonlabeled detection of nonfluorescent molecules. <i>Analytical Chemistry</i> , 2006 , 78, 2859-63 | 7.8 | 45 |
| 129 | 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 |
| 128 | Microfluidic Distillation Utilizing MicroNano Combined Structure. <i>Chemistry Letters</i> , 2008 , 37, 1064-1065 | 1.7 | 43 |
| 127 | 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 |
| 126 | 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 |
| 125 | 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 |
| 124 | Femtoliter droplet handling in nanofluidic channels: a Laplace nanovalve. <i>Analytical Chemistry</i> , 2012 , 84, 10812-6 | 7.8 | 34 |
| 123 | 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 |
| 122 | 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 |
| 121 | Reactor design optimization for direct synthesis of hydrogen peroxide. <i>Chemical Engineering Journal</i> , 2010 , 160, 909-914 | 14.7 | 33 |
| 120 | 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 |

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|-----|--|------|----|
| 119 | 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 |
| 118 | Single-cell attachment and culture method using a photochemical reaction in a closed microfluidic system. <i>Biomicrofluidics</i> , 2010 , 4, 32208 | 3.2 | 32 |
| 117 | Circular dichroism thermal lens microscope for sensitive chiral analysis on microchip. <i>Analytical Chemistry</i> , 2006 , 78, 2646-50 | 7.8 | 32 |
| 116 | A single-molecule ELISA device utilizing nanofluidics. <i>Analyst, The</i> , 2018 , 143, 943-948 | 5 | 30 |
| 115 | A palmtop-sized microfluidic cell culture system driven by a miniaturized infusion pump. <i>Electrophoresis</i> , 2012 , 33, 1729-35 | 3.6 | 30 |
| 114 | Phase separation of gas-liquid and liquid-liquid microflows in microchips. <i>Mikrochimica Acta</i> , 2009 , 164, 249-255 | 5.8 | 29 |
| 113 | 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 |
| 112 | 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 |
| 111 | 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 |
| 110 | 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 |
| 109 | Metamaterials-Enhanced Infrared Spectroscopic Study of Nanoconfined Molecules by Plasmonics-Nanofluidics Hybrid Device. <i>ACS Photonics</i> , 2018 , 5, 3179-3188 | 6.3 | 27 |
| 108 | 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 |
| 107 | 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 |
| 106 | Evanescence wave-based particle tracking velocimetry for nanochannel flows. <i>Analytical Chemistry</i> , 2013 , 85, 10780-6 | 7.8 | 25 |
| 105 | Numerical simulation of proton distribution with electric double layer in extended nanospaces. <i>Analytical Chemistry</i> , 2013 , 85, 4468-74 | 7.8 | 25 |
| 104 | Circulation microchannel for liquid-liquid microextraction. <i>Mikrochimica Acta</i> , 2009 , 164, 241-247 | 5.8 | 25 |
| 103 | Serial DNA immobilization in micro- and extended nanospace channels. <i>Lab on A Chip</i> , 2009 , 9, 1517-23 | 7.2 | 25 |
| 102 | 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 |

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|-----|--|------|----|
| 101 | Fluorimetric determination of isatin in human urine and serum by liquid chromatography postcolumn photoirradiation. <i>Analyst, The</i> , 2001 , 126, 33-6 | 5 | 24 |
| 100 | The biological performance of cell-containing phospholipid polymer hydrogels in bulk and microscale form. <i>Biomaterials</i> , 2010 , 31, 8839-46 | 15.6 | 23 |
| 99 | 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 |
| 98 | Thermal lens microscopy as a detector in microdevices. <i>Electrophoresis</i> , 2014 , 35, 2279-91 | 3.6 | 22 |
| 97 | Electrochemical studies on liquid properties in extended nanospaces using mercury microelectrodes. <i>Electrophoresis</i> , 2009 , 30, 3212-8 | 3.6 | 22 |
| 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 | Integration of immunoassay into extended nanospace. <i>Mikrochimica Acta</i> , 2009 , 164, 307-310 | 5.8 | 21 |
| 94 | Behavior of nanoparticles in extended nanospace measured by evanescent wave-based particle velocimetry. <i>Analytical Chemistry</i> , 2015 , 87, 4087-91 | 7.8 | 20 |
| 93 | Extended-nano fluidic systems for analytical and chemical technologies. <i>Nanoscale</i> , 2010 , 2, 1588-95 | 7.7 | 20 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | Micro/extended-nano sampling interface from a living single cell. <i>Analyst, The</i> , 2017 , 142, 1689-1696 | 5 | 18 |
| 88 | Femtoliter nanofluidic valve utilizing glass deformation. <i>Lab on A Chip</i> , 2019 , 19, 1686-1694 | 7.2 | 18 |
| 87 | Extended-nano chromatography. <i>Journal of Chromatography A</i> , 2017 , 1490, 11-20 | 4.5 | 18 |
| 86 | 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 |
| 85 | Hands on: thermal bonding of nano- and microfluidic chips. <i>Mikrochimica Acta</i> , 2009 , 166, 177-181 | 5.8 | 18 |
| 84 | 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 |

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|----|--|-----|----|
| 83 | 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 |
| 82 | Thermal lens detection device. <i>Lab on A Chip</i> , 2011 , 11, 2990-3 | 7.2 | 17 |
| 81 | 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 |
| 80 | Flowing thermal lens micro-flow velocimeter. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 91-96 | 8.5 | 16 |
| 79 | Femtoliter Gradient Elution System for Liquid Chromatography Utilizing Extended Nanofluidics. <i>Analytical Chemistry</i> , 2019 , 91, 3009-3014 | 7.8 | 15 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | 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 |
| 73 | Femtoliter high-performance liquid chromatography using extended-nano channels. <i>Analyst, The</i> , 2016 , 141, 6068-6072 | 5 | 14 |
| 72 | 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 |
| 71 | Optical near-field induced visible response photoelectrochemical water splitting on nanorod TiO ₂ . <i>Applied Physics Letters</i> , 2011 , 99, 213105 | 3.4 | 14 |
| 70 | Shift of isoelectric point in extended nanospace investigated by streaming current measurement. <i>Applied Physics Letters</i> , 2011 , 99, 123115 | 3.4 | 14 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |

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|----|---|-----|----|
| 65 | 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 |
| 64 | Detachable glass micro/nanofluidic device. <i>Biomicrofluidics</i> , 2019 , 13, 024104 | 3.2 | 12 |
| 63 | Nonfluorescent Molecule Detection in 10 nm Nanofluidic Channels by Photothermal Optical Diffraction. <i>Analytical Chemistry</i> , 2019 , 91, 9741-9746 | 7.8 | 12 |
| 62 | 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 |
| 61 | Desktop near-field thermal-lens microscope for thermo-optical detection in microfluidics. <i>Electrophoresis</i> , 2012 , 33, 2748-51 | 3.6 | 12 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | On-chip antibody immobilization for on-demand and rapid immunoassay on a microfluidic chip. <i>Biomicrofluidics</i> , 2010 , 4, 32207 | 3.2 | 11 |
| 56 | Portable thermal lens spectrometer with focusing system. <i>Analytical Chemistry</i> , 2005 , 77, 687-92 | 7.8 | 11 |
| 55 | 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 |
| 54 | 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 |
| 53 | Microchip-based plasma separation from whole blood via axial migration of blood cells. <i>Analytical Sciences</i> , 2011 , 27, 1173-8 | 1.7 | 10 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | Numerical analysis of thermal lens effect for sensitive detection on microchips. <i>Electrophoresis</i> , 2008 , 29, 1895-901 | 3.6 | 9 |
| 48 | 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 |

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|----|---|-----|---|
| 47 | Micro heat pipe device utilizing extended nanofluidics. <i>RSC Advances</i> , 2017 , 7, 50591-50597 | 3.7 | 8 |
| 46 | 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 |
| 45 | 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 |
| 44 | Whole blood analysis using microfluidic plasma separation and enzyme-linked immunosorbent assay devices. <i>Analytical Methods</i> , 2016 , 8, 7597-7602 | 3.2 | 8 |
| 43 | Extended nanospace chemical systems on a chip for new analytical technology. <i>Analyst, The</i> , 2011 , 136, 3051-9 | 5 | 7 |
| 42 | Selective cell capture and analysis using shallow antibody-coated microchannels. <i>Biomicrofluidics</i> , 2012 , 6, 44117 | 3.2 | 7 |
| 41 | Femtoliter Volumetric Pipette and Flask Utilizing Nanofluidics. <i>Analyst, The</i> , 2020 , 145, 2669-2675 | 5 | 7 |
| 40 | Nano X-ray diffractometry device for nanofluidics. <i>Lab on A Chip</i> , 2018 , 18, 1259-1264 | 7.2 | 6 |
| 39 | From Extended Nanofluidics to an Autonomous Solar-Light-Driven Micro Fuel-Cell Device. <i>Angewandte Chemie</i> , 2017 , 129, 8242-8245 | 3.6 | 6 |
| 38 | Enzyme-linked immunosorbent assay utilizing thin-layered microfluidics. <i>Analyst, The</i> , 2019 , 144, 6625-6634 | 6.3 | 6 |
| 37 | A sensitive and rapid assay of BNP in patient blood by micro-ELISA. <i>Analytical Methods</i> , 2017 , 9, 2830-2834 | 3.4 | 5 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | Determination of cattle foot-and-mouth disease virus by micro-ELISA method. <i>Analytical Sciences</i> , 2014 , 30, 359-63 | 1.7 | 5 |
| 32 | Micro and Nano Chemical Systems. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2011 , 69, 526-533 | 0.2 | 5 |
| 31 | Characterization of optical diffraction by single nanochannel for aLL sample detection in nanofluidics. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1 | 2.8 | 4 |
| 30 | Communication-Evaporation Driven Micro/Nanofluidic Pumping Device. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B184-B186 | 3.9 | 4 |

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| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | A competitive microfluidic immunological clenbuterol analysis using a microELISA system. <i>RSC Advances</i> , 2014 , 4, 39894 | 3.7 | 3 |
| 23 | 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 |
| 22 | Graft linker immobilization for spatial control of protein immobilization inside fused microchips. <i>Electrophoresis</i> , 2009 , 30, 4251-5 | 3.6 | 3 |
| 21 | 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 |
| 20 | Reflective thermal lens detection device. <i>Lab on A Chip</i> , 2006 , 6, 127-30 | 7.2 | 3 |
| 19 | High-Pressure Acceleration of Nanoliter Droplets in the Gas Phase in a Microchannel. <i>Micromachines</i> , 2016 , 7, | 3.3 | 3 |
| 18 | Analytical Method by Micro-ELISA for Small Amount of Patient Sample. <i>Bunseki Kagaku</i> , 2015 , 64, 461-468 | 2 | 2 |
| 17 | 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 |
| 16 | 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 |
| 15 | Transport of a Micro Liquid Plug in a Gas-Phase Flow in a Microchannel. <i>Micromachines</i> , 2018 , 9, | 3.3 | 2 |
| 14 | 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 |
| 13 | Ferroelectric Extended Nanofluidic Channels for Room-Temperature Microfuel Cells. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900252 | 6.8 | 1 |
| 12 | 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 |

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|----|---|-----|---|
| 11 | 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 |
| 10 | Low-temperature bonded glass-membrane microfluidic device for in vitro organ-on-a-chip cell culture models 2015 , | | 1 |
| 9 | 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 |
| 8 | Nano-bubble Valve. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1 | 2.8 | 1 |
| 7 | 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 |
| 6 | 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 |
| 5 | Diffraction-based label-free photothermal detector for separation analyses in a nanocapillary. <i>Journal of Chromatography A</i> , 2021 , 1648, 462214 | 4.5 | 0 |
| 4 | Investigation of Preservation Stability for a Small Amount of Patient Samples Using Microfluidic Device. <i>Bunseki Kagaku</i> , 2017 , 66, 453-457 | 0.2 | |
| 3 | Development of a micro-potentiometric sensor for the microchip analysis of alkali ions. <i>Analytical Sciences</i> , 2009 , 25, 1397-401 | 1.7 | |
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