

Yo Tanaka

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.

119
papers

2,629
citations

28
h-index

48
g-index

147
ext. papers

3,414
ext. citations

5.7
avg, IF

5.24
L-index

#	Paper	IF	Citations
119	Continuous 3D particles manipulation based on cooling thermal convection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131511	8.5	1
118	Impedance-based tracking of the loss of intracellular components in microalgae cells. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131514	8.5	0
117	Dual-frequency impedance assays for intracellular components in microalgal cells.. <i>Lab on A Chip</i> , 2022 ,	7.2	2
116	Single-Cell Cultivation Utilizing Microfluidic Systems 2022 , 287-310		
115	Development of Microdevices Combining Machine and Life Systems. <i>Journal of Robotics and Mechatronics</i> , 2022 , 34, 288-290	0.7	1
114	Human iPS cell derived RPE strips for secure delivery of graft cells at a target place with minimal surgical invasion. <i>Scientific Reports</i> , 2021 , 11, 21421	4.9	2
113	Fabrication of ultra-thin glass sheet by weight-controlled load-assisted precise thermal stretching. <i>Sensors and Actuators A: Physical</i> , 2021 , 321, 112604	3.9	6
112	A sub-population of Dictyostelium discoideum cells shows extremely high sensitivity to cAMP for directional migration. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 554, 131-137	3.4	2
111	FPGA-Assisted Nonparallel Impedance Cytometry as Location Sensor of Single Particle 2021 ,		2
110	A chemical micropump actuated by self-oscillating polymer gel. <i>Sensors and Actuators B: Chemical</i> , 2021 , 337, 129769	8.5	6
109	Nanofluidic Devices and Applications for Biological Analyses. <i>Analytical Chemistry</i> , 2021 , 93, 332-349	7.8	6
108	Specific capture and intact release of breast cancer cells using a twin-layer vein-shaped microchip with a self-assembled surface. <i>Nanoscale</i> , 2021 , 13, 17765-17774	7.7	1
107	Hydrodynamic particle focusing enhanced by femtosecond laser deep grooving at low Reynolds numbers. <i>Scientific Reports</i> , 2021 , 11, 1652	4.9	2
106	A simple and reversible glass-glass bonding method to construct a microfluidic device and its application for cell recovery. <i>Lab on A Chip</i> , 2021 , 21, 2244-2254	7.2	6
105	Glass based micro total analysis systems: Materials, fabrication methods, and applications. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129859	8.5	12
104	Microscopic impedance cytometry for quantifying single cell shape. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113521	11.8	5
103	Rotation of Biological Cells: Fundamentals and Applications. <i>Engineering</i> , 2021 ,	9.7	5

102	Movement tracing and analysis of benthic sting ray (<i>Dasyatis akajei</i>) and electric ray (<i>Narke japonica</i>) toward seabed exploration. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	
101	Characterization of the Hydration Process of Phospholipid-Mimetic Polymers Using Air-Injection-Mediated Liquid Exclusion Methods. <i>Langmuir</i> , 2020 , 36, 5626-5632	4	3
100	Horizontal connection method for glass microfluidic devices. <i>Micro and Nano Letters</i> , 2020 , 15, 333-338	0.9	1
99	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin. <i>PLoS ONE</i> , 2020 , 15, e0232518	3.7	3
98	Control and design of biosystems. <i>Development Growth and Differentiation</i> , 2020 , 62, 149	3	
97	Accurate rotation of ultra-thin glass chamber for single-cell multidirectional observation. <i>Applied Physics Express</i> , 2020 , 13, 026502	2.4	4
96	Microactuators Driven by Smooth Muscle Cells. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2020 , 140, 591-594	0	
95	In situ measurement of cell stiffness of Arabidopsis roots growing on a glass micropillar support by atomic force microscopy. <i>Plant Biotechnology</i> , 2020 , 37, 417-422	1.3	2
94	Single-Cell Cultivation Utilizing Microfluidic Systems 2020 , 1-24		
93	Sheathless Inertial Focusing Chip Combining a Spiral Channel with Periodic Expansion Structures for Efficient and Stable Particle Sorting. <i>Analytical Chemistry</i> , 2020 , 92, 1833-1841	7.8	24
92	Effects of Flow-Induced Microfluidic Chip Wall Deformation on Imaging Flow Cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020 , 97, 909-920	4.6	10
91	User-friendly cell patterning methods using a polydimethylsiloxane mold with microchannels. <i>Development Growth and Differentiation</i> , 2020 , 62, 167-176	3	6
90	Mechanical properties of single cells: Measurement methods and applications. <i>Biotechnology Advances</i> , 2020 , 45, 107648	17.8	14
89	Vacuum microcasting of 2-methacryloyloxyethyl phosphorylcholine polymer for stable cell patterning. <i>BioTechniques</i> , 2020 , 69, 171-177	2.5	0
88	Area cooling enables thermal positioning and manipulation of single cells. <i>Lab on A Chip</i> , 2020 , 20, 3733-3743	3.243	6
87	Rapid and easy-to-use ES cell manipulation device with a small groove near culturing wells. <i>BMC Research Notes</i> , 2020 , 13, 453	2.3	
86	Establishment of a heart-on-a-chip microdevice based on human iPS cells for the evaluation of human heart tissue function. <i>Scientific Reports</i> , 2020 , 10, 19201	4.9	28
85	Pneumatically Actuated Thin Glass Microlens for On-Chip Multi-Magnification Observations. <i>Actuators</i> , 2020 , 9, 73	2.4	1

84	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518		
83	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518		
82	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518		
81	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518		
80	Simple Isolation of Single Cell: Thin Glass Microfluidic Device for Observation of Isolated Single <i>Euglena gracilis</i> Cells. <i>Analytical Sciences</i> , 2019 , 35, 577-583	1.7	6
79	In-situ detection based on the biofilm hydrophilicity for environmental biofilm formation. <i>Scientific Reports</i> , 2019 , 9, 8070	4.9	9
78	Insect Muscular Tissue-Powered Swimming Robot. <i>Actuators</i> , 2019 , 8, 30	2.4	6
77	An ultra-small fluid oscillation unit for pumping driven by self-organized three-dimensional bridging of pulsatile cardiomyocytes on elastic micro-piers. <i>Sensors and Actuators B: Chemical</i> , 2019 , 293, 256-264	8.5	7
76	Enhancement in acoustic focusing of micro and nanoparticles by thinning a microfluidic device. <i>Royal Society Open Science</i> , 2019 , 6, 181776	3.3	8
75	High-speed micro-particle manipulation in a microfluidic chip by directional femtosecond laser impulse. <i>Sensors and Actuators A: Physical</i> , 2019 , 297, 111566	3.9	7
74	A valve powered by earthworm muscle with both electrical and 100% chemical control. <i>Scientific Reports</i> , 2019 , 9, 8042	4.9	5
73	Isolating Single Cells by Glass Microfluidics for Raman Analysis of Paramylon Biogenesis. <i>Analytical Chemistry</i> , 2019 , 91, 9631-9639	7.8	15
72	Intelligent whole-blood imaging flow cytometry for simple, rapid, and cost-effective drug-susceptibility testing of leukemia. <i>Lab on A Chip</i> , 2019 , 19, 2688-2698	7.2	24
71	Label-free chemical imaging flow cytometry by high-speed multicolor stimulated Raman scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15842-15848 ^{11.5}		78
70	Ultrasensitive Single Cell Metabolomics by Capillary Electrophoresis-Mass Spectrometry with a Thin-Walled Tapered Emitter and Large-Volume Dual Sample Preconcentration. <i>Analytical Chemistry</i> , 2019 , 91, 10564-10572	7.8	37
69	A Microfluidic Platform Based on Robust Gas and Liquid Exchange for Long-term Culturing of Explanted Tissues. <i>Analytical Sciences</i> , 2019 , 35, 1141-1147	1.7	4
68	Thin glass micro-dome structure based microlens fabricated by accurate thermal expansion of microcavities. <i>Applied Physics Letters</i> , 2019 , 115, 263501	3.4	5
67	Recent advances in microfluidic cell sorting systems. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 268-281		64

66	Oocyte all-surfaces imaging method using micro-scale rotational flow. <i>Micro and Nano Letters</i> , 2018 , 13, 306-311	0.9	2
65	Optofluidic time-stretch quantitative phase microscopy. <i>Methods</i> , 2018 , 136, 116-125	4.6	27
64	Intelligent Image-Activated Cell Sorting. <i>Cell</i> , 2018 , 175, 266-276.e13	56.2	241
63	Ultrasensitive detection of nucleic acids based on dually enhanced fluorescence polarization. <i>Analyst, The</i> , 2018 , 143, 3560-3569	5	11
62	Property Investigation of Replaceable PDMS Membrane as an Actuator in Microfluidic Device. <i>Actuators</i> , 2018 , 7, 68	2.4	9
61	Time Sequential Single-Cell Patterning with High Efficiency and High Density. <i>Sensors</i> , 2018 , 18,	3.8	12
60	Easy and efficient production of completely embryonic-stem-cell-derived mice using a micro-aggregation device. <i>PLoS ONE</i> , 2018 , 13, e0203056	3.7	5
59	Profiling of N-linked glycans from 100 cells by capillary electrophoresis with large-volume dual preconcentration by isotachopheresis and stacking. <i>Journal of Chromatography A</i> , 2018 , 1565, 138-144	4.5	33
58	High-throughput label-free screening of euglena gracilis with optofluidic time-stretch quantitative phase microscopy 2017 ,		1
57	High-throughput, label-free, single-cell, microalgal lipid screening by machine-learning-equipped optofluidic time-stretch quantitative phase microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 494-502	4.6	42
56	Ultra-thin glass sheet integrated transparent diaphragm pressure transducer. <i>Sensors and Actuators A: Physical</i> , 2017 , 263, 102-112	3.9	13
55	A method of packaging molecule/cell-patterns in an open space into a glass microfluidic channel by combining pressure-based low/room temperature bonding and fluorosilane patterning. <i>Chemical Communications</i> , 2017 , 53, 11193-11196	5.8	11
54	Development of Integrated Microfluidic Devices for Next-generation Bioanalysis. <i>Bunseki Kagaku</i> , 2017 , 66, 487-494	0.2	
53	Simple agarose micro-confinement array and machine-learning-based classification for analyzing the patterned differentiation of mesenchymal stem cells. <i>PLoS ONE</i> , 2017 , 12, e0173647	3.7	12
52	Contamination-free non-contact wettability assessment system. <i>ROBOMECH Journal</i> , 2017 , 4,	2.1	3
51	Embryonic body culturing in an all-glass microfluidic device with laser-processed 4 μ m thick ultra-thin glass sheet filter. <i>Biomedical Microdevices</i> , 2017 , 19, 85	3.7	6
50	Earthworm muscle driven bio-micropump. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 1186-1192	8.5	29
49	Micro-patterned agarose gel devices for single-cell high-throughput microscopy of E. coli cells. <i>Scientific Reports</i> , 2017 , 7, 17750	4.9	15

48	Analysis of Long-term Morphological Changes of Micro-patterned Molecules and Cells on PDMS and Glass Surfaces. <i>Analytical Sciences</i> , 2017 , 33, 723-725	1.7	9
47	An electric generator using living Torpedo electric organs controlled by fluid pressure-based alternative nervous systems. <i>Scientific Reports</i> , 2016 , 6, 25899	4.9	8
46	Microcasting with agarose gel via degassed polydimethylsiloxane molds for repellency-guided cell patterning. <i>RSC Advances</i> , 2016 , 6, 54754-54762	3.7	28
45	Large-Scale Integration of All-Glass Valves on a Microfluidic Device. <i>Micromachines</i> , 2016 , 7,	3.3	29
44	Ultrathin glass filter fabricated by femtosecond laser processing for high-throughput microparticle filtering. <i>Applied Physics Express</i> , 2016 , 9, 066702	2.4	8
43	Vapor-based micro/nano-partitioning of fluoro-functional group immobilization for long-term stable cell patterning. <i>RSC Advances</i> , 2016 , 6, 96306-96313	3.7	6
42	Micro/nanoparticle separation via curved nano-gap device with enhanced size resolution. <i>Journal of Chromatography A</i> , 2016 , 1455, 172-177	4.5	4
41	An all-glass 12 μm ultra-thin and flexible micro-fluidic chip fabricated by femtosecond laser processing. <i>Lab on A Chip</i> , 2016 , 16, 2427-33	7.2	34
40	Simple bilayer on-chip valves using reversible sealability of PDMS. <i>RSC Advances</i> , 2015 , 5, 5237-5243	3.7	7
39	Integration of a reconstituted cell-free protein-synthesis system on a glass microchip. <i>Analytical Sciences</i> , 2015 , 31, 67-71	1.7	5
38	Fluid driving system for a micropump by differentiating iPS cells into cardiomyocytes on a tent-like structure. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 267-272	8.5	16
37	Protocadherin-17 mediates collective axon extension by recruiting actin regulator complexes to interaxonal contacts. <i>Developmental Cell</i> , 2014 , 30, 673-87	10.2	62
36	A Peristaltic Pump Integrated on a 100% Glass Microchip Using Computer Controlled Piezoelectric Actuators. <i>Micromachines</i> , 2014 , 5, 289-299	3.3	30
35	An active valve incorporated into a microchip using a high strain electroactive polymer. <i>Sensors and Actuators B: Chemical</i> , 2013 , 184, 163-169	8.5	23
34	Electric actuating valves incorporated into an all glass-based microchip exploiting the flexibility of ultra thin glass. <i>RSC Advances</i> , 2013 , 3, 10213	3.7	27
33	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
32	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
31	A palmtop-sized microfluidic cell culture system driven by a miniaturized infusion pump. <i>Electrophoresis</i> , 2012 , 33, 1729-35	3.6	30

30	Selective cell capture and analysis using shallow antibody-coated microchannels. <i>Biomicrofluidics</i> , 2012 , 6, 44117	3.2	7
29	Extended-Nanofluidic Systems for Chemistry and Biotechnology 2012 ,		6
28	In situ assembly, regeneration and plasmonic immunosensing of a Au nanorod monolayer in a closed-surface flow channel. <i>Lab on A Chip</i> , 2011 , 11, 3299-304	7.2	34
27	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
26	Microchip-based plasma separation from whole blood via axial migration of blood cells. <i>Analytical Sciences</i> , 2011 , 27, 1173-8	1.7	10
25	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
24	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
23	Establishment of a confluent cardiomyocyte culture in a cylindrical microchannel. <i>Analytical Sciences</i> , 2011 , 27, 957-60	1.7	1
22	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
21	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
20	Fluid actuation for a bio-micropump powered by previously frozen cardiomyocytes directly seeded on a diagonally stretched thin membrane. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 494-498	8.5	15
19	Single-cell attachment and culture method using a photochemical reaction in a closed microfluidic system. <i>Biomicrofluidics</i> , 2010 , 4, 32208	3.2	32
18	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
17	Assembly and simple demonstration of a micropump installing PDMS-based thin membranes as flexible micro check valves. <i>Journal of Biomedical Nanotechnology</i> , 2009 , 5, 516-20	4	7
16	Combining microchip and cell technology for creation of novel biodevices. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 23-9	4.4	11
15	Development of a micro-potentiometric sensor for the microchip analysis of alkali ions. <i>Analytical Sciences</i> , 2009 , 25, 1397-401	1.7	
14	GaN photonic-crystal surface-emitting laser at blue-violet wavelengths. <i>Science</i> , 2008 , 319, 445-7	33.3	257
13	Demonstration of a bio-microactuator powered by vascular smooth muscle cells coupled to polymer micropillars. <i>Lab on A Chip</i> , 2008 , 8, 58-61	7.2	22

12	A round robin test for pre-standardization of a saddle-shaped pickup coil method to measure AC losses in Bi-2223 Ag-sheathed tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1787-1797	1.3	13
11	A micro-spherical heart pump powered by cultured cardiomyocytes. <i>Lab on A Chip</i> , 2007 , 7, 207-12	7.2	144
10	Biological cells on microchips: new technologies and applications. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 449-58	11.8	114
9	Culture and leukocyte adhesion assay of human arterial endothelial cells in a glass microchip. <i>Analytical Sciences</i> , 2007 , 23, 261-6	1.7	43
8	An actuated pump on-chip powered by cultured cardiomyocytes. <i>Lab on A Chip</i> , 2006 , 6, 362-8	7.2	151
7	Demonstration of a PDMS-based bio-microactuator using cultured cardiomyocytes to drive polymer micropillars. <i>Lab on A Chip</i> , 2006 , 6, 230-5	7.2	133
6	Demonstration of a bio-microactuator powered by cultured cardiomyocytes coupled to hydrogel micropillars. <i>Sensors and Actuators B: Chemical</i> , 2006 , 119, 345-350	8.5	64
5	Acceleration of an enzymatic reaction in a microchip. <i>Analytical Sciences</i> , 2001 , 17, 809-10	1.7	40
4	Non-contact photothermal control of enzyme reactions on a microchip by using a compact diode laser. <i>Journal of Chromatography A</i> , 2000 , 894, 45-51	4.5	78
3	Sexual selection enhances population extinction in a changing environment. <i>Journal of Theoretical Biology</i> , 1996 , 180, 197-206	2.3	44
2	Anisotropies in microstructures and critical current densities in superconducting V3Ga tapes. <i>Journal of the Less Common Metals</i> , 1974 , 37, 177-180		5
1	The cascade CLOS broadcast switching network - a new atm switching network which is multiconnection non-blocking		2