

Yo Tanaka

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7676491/yo-tanaka-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	GaN photonic-crystal surface-emitting laser at blue-violet wavelengths. <i>Science</i> , 2008 , 319, 445-7	33.3	257
118	Intelligent Image-Activated Cell Sorting. <i>Cell</i> , 2018 , 175, 266-276.e13	56.2	241
117	An actuated pump on-chip powered by cultured cardiomyocytes. <i>Lab on A Chip</i> , 2006 , 6, 362-8	7.2	151
116	A micro-spherical heart pump powered by cultured cardiomyocytes. <i>Lab on A Chip</i> , 2007 , 7, 207-12	7.2	144
115	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
114	Biological cells on microchips: new technologies and applications. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 449-58	11.8	114
113	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
112	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
111	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
110	Recent advances in microfluidic cell sorting systems. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 268-281		64
109	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
108	Sexual selection enhances population extinction in a changing environment. <i>Journal of Theoretical Biology</i> , 1996 , 180, 197-206	2.3	44
107	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
106	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
105	Acceleration of an enzymatic reaction in a microchip. <i>Analytical Sciences</i> , 2001 , 17, 809-10	1.7	40
104	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
103	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

102	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
101	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
100	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
99	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
98	Single-cell attachment and culture method using a photochemical reaction in a closed microfluidic system. <i>Biomicrofluidics</i> , 2010 , 4, 32208	3.2	32
97	A Peristaltic Pump Integrated on a 100% Glass Microchip Using Computer Controlled Piezoelectric Actuators. <i>Micromachines</i> , 2014 , 5, 289-299	3.3	30
96	A palmtop-sized microfluidic cell culture system driven by a miniaturized infusion pump. <i>Electrophoresis</i> , 2012 , 33, 1729-35	3.6	30
95	Earthworm muscle driven bio-micropump. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 1186-1192	8.5	29
94	Large-Scale Integration of All-Glass Valves on a Microfluidic Device. <i>Micromachines</i> , 2016 , 7,	3.3	29
93	Microcasting with agarose gel via degassed polydimethylsiloxane molds for repellency-guided cell patterning. <i>RSC Advances</i> , 2016 , 6, 54754-54762	3.7	28
92	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
91	Optofluidic time-stretch quantitative phase microscopy. <i>Methods</i> , 2018 , 136, 116-125	4.6	27
90	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
89	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
88	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
87	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
86	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
85	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

84	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
83	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
82	Isolating Single Cells by Glass Microfluidics for Raman Analysis of Paramylon Biogenesis. <i>Analytical Chemistry</i> , 2019 , 91, 9631-9639	7.8	15
81	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
80	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
79	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
78	Mechanical properties of single cells: Measurement methods and applications. <i>Biotechnology Advances</i> , 2020 , 45, 107648	17.8	14
77	Ultra-thin glass sheet integrated transparent diaphragm pressure transducer. <i>Sensors and Actuators A: Physical</i> , 2017 , 263, 102-112	3.9	13
76	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
75	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
74	Time Sequential Single-Cell Patterning with High Efficiency and High Density. <i>Sensors</i> , 2018 , 18,	3.8	12
73	Glass based micro total analysis systems: Materials, fabrication methods, and applications. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129859	8.5	12
72	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
71	Ultrasensitive detection of nucleic acids based on dually enhanced fluorescence polarization. <i>Analyst, The</i> , 2018 , 143, 3560-3569	5	11
70	Combining microchip and cell technology for creation of novel biodevices. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 23-9	4.4	11
69	Microchip-based plasma separation from whole blood via axial migration of blood cells. <i>Analytical Sciences</i> , 2011 , 27, 1173-8	1.7	10
68	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
67	In-situ detection based on the biofilm hydrophilicity for environmental biofilm formation. <i>Scientific Reports</i> , 2019 , 9, 8070	4.9	9

66	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
65	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
64	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
63	Property Investigation of Replaceable PDMS Membrane as an Actuator in Microfluidic Device. <i>Actuators</i> , 2018 , 7, 68	2.4	9
62	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
61	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
60	Ultrathin glass filter fabricated by femtosecond laser processing for high-throughput microparticle filtering. <i>Applied Physics Express</i> , 2016 , 9, 066702	2.4	8
59	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
58	Simple bilayer on-chip valves using reversible sealability of PDMS. <i>RSC Advances</i> , 2015 , 5, 5237-5243	3.7	7
57	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
56	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
55	Selective cell capture and analysis using shallow antibody-coated microchannels. <i>Biomicrofluidics</i> , 2012 , 6, 44117	3.2	7
54	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
53	Insect Muscular Tissue-Powered Swimming Robot. <i>Actuators</i> , 2019 , 8, 30	2.4	6
52	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
51	Extended-Nanofluidic Systems for Chemistry and Biotechnology 2012 ,		6
50	User-friendly cell patterning methods using a polydimethylsiloxane mold with microchannels. <i>Development Growth and Differentiation</i> , 2020 , 62, 167-176	3	6
49	Area cooling enables thermal positioning and manipulation of single cells. <i>Lab on A Chip</i> , 2020 , 20, 3733-3743	3.743	6

48	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
47	A chemical micropump actuated by self-oscillating polymer gel. <i>Sensors and Actuators B: Chemical</i> , 2021 , 337, 129769	8.5	6
46	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
45	Nanofluidic Devices and Applications for Biological Analyses. <i>Analytical Chemistry</i> , 2021 , 93, 332-349	7.8	6
44	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
43	A valve powered by earthworm muscle with both electrical and 100% chemical control. <i>Scientific Reports</i> , 2019 , 9, 8042	4.9	5
42	Integration of a reconstituted cell-free protein-synthesis system on a glass microchip. <i>Analytical Sciences</i> , 2015 , 31, 67-71	1.7	5
41	Anisotropies in microstructures and critical current densities in superconducting V3Ga tapes. <i>Journal of the Less Common Metals</i> , 1974 , 37, 177-180		5
40	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
39	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
38	Microscopic impedance cytometry for quantifying single cell shape. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113521	11.8	5
37	Rotation of Biological Cells: Fundamentals and Applications. <i>Engineering</i> , 2021 ,	9.7	5
36	Accurate rotation of ultra-thin glass chamber for single-cell multidirectional observation. <i>Applied Physics Express</i> , 2020 , 13, 026502	2.4	4
35	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
34	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
33	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
32	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
31	Contamination-free non-contact wettability assessment system. <i>ROBOMECH Journal</i> , 2017 , 4,	2.1	3

30	Oocyte all-surfaces imaging method using micro-scale rotational flow. <i>Micro and Nano Letters</i> , 2018 , 13, 306-311	0.9	2
29	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
28	Dual-frequency impedance assays for intracellular components in microalgal cells.. <i>Lab on A Chip</i> , 2022 ,	7.2	2
27	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
26	The cascade CLOS broadcast switching network - a new atm switching network which is multiconnection non-blocking		2
25	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
24	FPGA-Assisted Nonparallel Impedance Cytometry as Location Sensor of Single Particle 2021 ,		2
23	Hydrodynamic particle focusing enhanced by femtosecond laser deep grooving at low Reynolds numbers. <i>Scientific Reports</i> , 2021 , 11, 1652	4.9	2
22	High-throughput label-free screening of euglena gracilis with optofluidic time-stretch quantitative phase microscopy 2017 ,		1
21	Horizontal connection method for glass microfluidic devices. <i>Micro and Nano Letters</i> , 2020 , 15, 333-338	0.9	1
20	Establishment of a confluent cardiomyocyte culture in a cylindrical microchannel. <i>Analytical Sciences</i> , 2011 , 27, 957-60	1.7	1
19	Continuous 3D particles manipulation based on cooling thermal convection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131511	8.5	1
18	Pneumatically Actuated Thin Glass Microlens for On-Chip Multi-Magnification Observations. <i>Actuators</i> , 2020 , 9, 73	2.4	1
17	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
16	Development of Microdevices Combining Machine and Life Systems. <i>Journal of Robotics and Mechatronics</i> , 2022 , 34, 288-290	0.7	1
15	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
14	Vacuum microcasting of 2-methacryloyloxyethyl phosphorylcholine polymer for stable cell patterning. <i>BioTechniques</i> , 2020 , 69, 171-177	2.5	0
13	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	

12	Control and design of biosystems. <i>Development Growth and Differentiation</i> , 2020 , 62, 149	3
11	Development of Integrated Microfluidic Devices for Next-generation Bioanalysis. <i>Bunseki Kagaku</i> , 2017 , 66, 487-494	0.2
10	Development of a micro-potentiometric sensor for the microchip analysis of alkali ions. <i>Analytical Sciences</i> , 2009 , 25, 1397-401	1.7
9	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, 1787-1793	1.3
8	Microactuators Driven by Smooth Muscle Cells. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2020 , 140, 591-594	0
7	Single-Cell Cultivation Utilizing Microfluidic Systems 2022 , 287-310	
6	Single-Cell Cultivation Utilizing Microfluidic Systems 2020 , 1-24	
5	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
4	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518	
3	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518	
2	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518	
1	Flow analysis on microcasting with degassed polydimethylsiloxane micro-channels for cell patterning with cross-linked albumin 2020 , 15, e0232518	