

# Kyohei Terao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2218990/publications.pdf>

Version: 2024-02-01

53  
papers

154  
citations

1478505

6  
h-index

1588992

8  
g-index

53  
all docs

53  
docs citations

53  
times ranked

108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending chromosomal DNA in microstructures using electroosmotic flow. Journal of Physics Condensed Matter, 2006, 18, S653-S663.	1.8	14
2	On-site manipulation of single chromosomal DNA molecules by using optically driven microstructures. Lab on A Chip, 2008, 8, 1280.	6.0	10
3	Open-access and multi-directional electroosmotic flow chip for positioning heterotypic cells. Lab on A Chip, 2011, 11, 1507.	6.0	9
4	Fast protein detection in raw blood by size-exclusion SPR sensing. Analytical Methods, 2015, 7, 6483-6488.	2.7	9
5	Characterisation of optically driven microstructures for manipulating single DNA molecules under a fluorescence microscope. IET Nanobiotechnology, 2016, 10, 124-128.	3.8	9
6	Biological information (pH/EC) sensor device for quantitatively monitoring plant health conditions. , 2017, , .		9
7	A novel configuration of tactile sensor to acquire the correlation between surface roughness and frictional force. , 2015, , .		7
8	Size-exclusion SPR sensor chip: application to detection of aggregation and disaggregation of biological particles. Analyst, The, 2012, 137, 2192.	3.5	6
9	Subcellular glucose exposure biases the spatial distribution of insulin granules in single pancreatic beta cells. Scientific Reports, 2014, 4, 4123.	3.3	6
10	A tactile sensor with the reference plane for detection abilities of frictional force and human body hardness aimed to medical applications. , 2015, , .		6
11	On-site processing of single chromosomal DNA molecules using optically driven microtools on a microfluidic workbench. Scientific Reports, 2021, 11, 7961.	3.3	5
12	Patternable atmospheric-pressure plasma jets with gas discharge in microfluidic channel array. , 2013, , .		4
13	Microscale phloem sap extraction sensor device for measuring biological information in plant branches. , 2016, , .		4
14	A Monolithic Fingerprint-Like Tactile Sensor Array Realizaing High Resolution Imaging of Spatially Distributed Tactile Information. , 2019, , .		4
15	Reduction of contact force dependence on the MEMS hardness sensor using reference plane to detect human body hardness. , 2015, , .		3
16	Development of magnetically driven microvalve using photosensitive SU-8/Fe composite. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 1585-1590.	0.6	3
17	Simultaneous Measurement of Surface Texture and Elasticity Using Tactile Sensor with Differently Protruded Contactor Array. , 2019, , .		3
18	Capture and elongation of single chromosomal DNA molecules using optically driven microchopsticks. Biomicrofluidics, 2020, 14, 044114.	2.4	3

#	ARTICLE	IF	CITATIONS
19	Development of High Accuracy Spray Coating Method using Multi-layer Coat. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 170-176.	0.1	3
20	Vertical comb-drive MEMS mirror with sensing function for phase-shift device. , 2010, , .		2
21	Evaluation of Electrodeposited Gold Nanostructures for Applications in QCM Sensing. Analytical Sciences, 2012, 28, 291-291.	1.6	2
22	Integration of angular rate sensor on large deflection polymer-MEMS mirror. , 2013, , .		2
23	A new extraction method of information for quantification of the sense of touch using a novel two-axis tactile sensor. , 2015, , .		2
24	Highly pure phloem-sap-extraction sensor device for direct component analysis of nutrition in plant shoots. , 2017, , .		2
25	Evaluation of Multi-Electrode Effects on Electrovibration Tactile Stimulation. Transactions of the Japan Institute of Electronics Packaging, 2017, 10, E17-004-1-E17-004-8.	0.4	2
26	Pure Photosynthates Extraction Sensor Device With Highly Precise Phloem/Xylem Position Identification. IEEE Sensors Journal, 2018, 18, 1739-1746.	4.7	2
27	Structural Color Based Tactile Sensor for Flexible Endoscopic Surgery to Detect Grab State and Organs Hardness. , 2020, , .		2
28	Mems-Based "Touch Feeling Scanner" for Quantitative Evaluation of Fingertip Sensation. , 2020, , .		2
29	Molecular ring toss of circular BAC DNA using micropillar array for single-molecule studies. Biomicrofluidics, 2020, 14, 014115.	2.4	2
30	Mems-Based "Multi-Tactile Scanner" With 100 $\mu$ m Spatial Resolution of Hardness. , 2021, , .		2
31	Stainless microfluidic probe with 2D-array microapertures. AIP Advances, 2021, 11, 015331.	1.3	2
32	On-demand formation of heterogeneous gel fibers using two-dimensional micronozzle array. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	2
33	AC-Electroosmosis-Assisted Surface Plasmon Resonance Sensing for Enhancing Protein Signals with a Simple Kretschmann Configuration. Sensors, 2022, 22, 854.	3.8	2
34	Localized substance delivery to single cell and 4D imaging of its uptake using a flow channel with a lateral aperture. Microfluidics and Nanofluidics, 2012, 12, 423-429.	2.2	1
35	Dual-axis polymer-MEMS mirror made of Photosensitive Nanocomposite. , 2013, , .		1
36	Generation of low-temperature atmospheric pressure plasma-jet patternable array at a 320 $\mu$ m pitch channel array. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Sense of touch in submicron region realized by two-axis tactile sensor with a needle-like contactor. , 2018, , .		1
38	A Highly Sensitive Planer Silicon-Hair Device Reproducing the Function of Human Hair Follicle. , 2019, , .		1
39	A 0.1µM-Resoution Silicon Tactile Sensor with Precisely Designed Piezoresitve Sensing Structure. , 2019, , .		1
40	Single-Probe Heat-Pulse Microsensor for Water Transportation Measurement in Plant Shoots. , 2021, , .		1
41	Development of a Minimally Invasive High-Resolution Tactile Sensor For Acquiring Delicate Haptic Changes in Hair. , 2022, , .		1
42	Development of opticalâ€driven nanoneedles using SUâ€8 nanofabrication. Electronics and Communications in Japan, 2022, 105, .	0.5	1
43	Development of a universal integrated micro cell culture system. , 2012, , .		0
44	Development of a local light stimulation device integrated with micro electrode array. Mechanical Engineering Journal, 2016, 3, 15-00570-15-00570.	0.4	0
45	Development of a Heat-Driven-Type MEMS Olfactory Display. Proceedings (mdpi), 2018, 2, .	0.2	0
46	Microscale Xylem Sap Flow Sensor Facilitating the Simultaneous Measurement of Flow Velocity and Direction. Proceedings (mdpi), 2019, 2, .	0.2	0
47	A highly sensitive MEMS siliconâ€hair device reproducing the function of hair follicle. Electronics and Communications in Japan, 2019, 102, 50-56.	0.5	0
48	New Phloem Sap Extraction and Storage Microdevice and Photosynthetic Products Analysis. , 2019, , .		0
49	P-MCH-03 LOCALIZED SUBSTANCE DELIVERY TO SINGLE CELL BY THREE DIMENTIONAL MICROFLUIDIC DEVICE(Micro/Nanomechatronics,Technical Program of Poster Session). Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE. 2009. 2009. 385-386.	0.0	0
50	P-4 Fabrication of liquid chromatography chip with micro pillar array of sub micron spacing. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2010, 2010, 118-121.	0.0	0
51	J0207-2-1 Heterotypic cell positioning using electroosmotic flow and observation of cell-cell interactions. The Proceedings of the JSME Annual Meeting, 2010, 2010.6, 239-240.	0.0	0
52	P-1-4 Fabrication and evaluation of SPR chip with micro structures by imprint technology. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2011, 2011, 161-164.	0.0	0
53	10.1063/5.0017727.1. , 2020, , .		0