

# Kazuhito V Tabata

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,307  
citations

304743

22  
h-index

254184

43  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2704  
citing authors

#	ARTICLE	IF	CITATIONS
1	A microreactor sealing method using adhesive tape for digital bioassays. <i>Lab on A Chip</i> , 2022, , .	6.0	0
2	Ultrafast water permeation through nanochannels with a densely fluorinated interior surface. <i>Science</i> , 2022, 376, 738-743.	12.6	82
3	Supramolecular Mechanosensitive Potassium Channel Formed by Fluorinated Amphiphilic Cyclophane. <i>Journal of the American Chemical Society</i> , 2022, 144, 11802-11809.	13.7	17
4	Imidazolium-based Multiblock Amphiphile as Transmembrane Anion Transporter. <i>Chemistry - an Asian Journal</i> , 2021, 16, 147-157.	3.3	9
5	Development of Enzyme Digital Assays Derived from Single Molecule Detection. <i>Seibutsu Butsuri</i> , 2021, 61, 095-101.	0.1	0
6	Synthetic Ion Channel Formed by Multiblock Amphiphile with Anisotropic Dual-Stimuli-Responsiveness. <i>Journal of the American Chemical Society</i> , 2021, 143, 1348-1355.	13.7	23
7	Multidimensional Digital Bioassay Platform Based on an Air-Sealed Femtoliter Reactor Array Device. <i>Analytical Chemistry</i> , 2021, 93, 5494-5502.	6.5	16
8	Amplification of over 100 kbp DNA from Single Template Molecules in Femtoliter Droplets. <i>ACS Synthetic Biology</i> , 2021, 10, 2179-2186.	3.8	8
9	Single Cell Array Enclosed with a Photodegradable Hydrogel in Microwells for Image-Based Cell Classification and Selective Photorelease of Cells. <i>ACS Applied Bio Materials</i> , 2020, 3, 5887-5895.	4.6	8
10	A synthetic ion channel with anisotropic ligand response. <i>Nature Communications</i> , 2020, 11, 2924.	12.8	36
11	Mobile imaging platform for digital influenza virus counting. <i>Lab on A Chip</i> , 2019, 19, 2678-2687.	6.0	34
12	Revealing the Metabolic Activity of Persisters in Mycobacteria by Single-Cell D <sub>2</sub> O Raman Imaging Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 15171-15178.	6.5	23
13	Accurate high-throughput screening based on digital protein synthesis in a massively parallel femtoliter droplet array. <i>Science Advances</i> , 2019, 5, eaav8185.	10.3	48
14	Antibody-free digital influenza virus counting based on neuraminidase activity. <i>Scientific Reports</i> , 2019, 9, 1067.	3.3	19
15	Regeneration of Escherichia coli Giant Protoplasts to Their Original Form. <i>Life</i> , 2019, 9, 24.	2.4	2
16	Osmolyte-Enhanced Protein Synthesis Activity of a Reconstituted Translation System. <i>ACS Synthetic Biology</i> , 2019, 8, 557-567.	3.8	8
17	Hybrid cell reactor system from Escherichia coli protoplast cells and arrayed lipid bilayer chamber device. <i>Scientific Reports</i> , 2018, 8, 11757.	3.3	7
18	Mechano-Sensitive Synthetic Ion Channels. <i>Journal of the American Chemical Society</i> , 2017, 139, 18016-18023.	13.7	65

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19	Light-triggered vesicle formation: important factors for generation of vesicles and possible applications. <i>Pure and Applied Chemistry</i> , 2014, 86, 1259-1267.	1.9	5
20	Grafting synthetic transmembrane units to the engineered low-toxicity $\hat{I}\pm$ -hemolysin to restore its hemolytic activity. <i>Molecular BioSystems</i> , 2014, 10, 3199-3206.	2.9	1
21	Arrayed lipid bilayer chambers allow single-molecule analysis of membrane transporter activity. <i>Nature Communications</i> , 2014, 5, 4519.	12.8	101
22	Reversible Ion Transportation Switch by a Ligand-Gated Synthetic Supramolecular Ion Channel. <i>Journal of the American Chemical Society</i> , 2014, 136, 15584-15595.	13.7	65
23	Robustness of the Rotary Catalysis Mechanism of F1-ATPase. <i>Journal of Biological Chemistry</i> , 2014, 289, 19331-19340.	3.4	10
24	3P265 Toward reproduction of a bacterium from hybrid chamber cells(20. Origin of life & Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54; Butsuri, 2014, 54, S293.	0.1	0
25	3P321 Development of enzyme screening system for directed evolution based on enzymic activity(28.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 54; Butsuri, 2014, 54, S302.	0.1	0
26	Diversity in ATP concentrations in a single bacterial cell population revealed by quantitative single-cell imaging. <i>Scientific Reports</i> , 2014, 4, 6522.	3.3	293
27	Attoliter order droplet formation using nanochannels and enzyme reaction inside a droplet. , , .		0
28	Biased Brownian stepping rotation of FoF1-ATP synthase driven by proton motive force. <i>Nature Communications</i> , 2013, 4, 1631.	12.8	41
29	1PS033 Direct observation of H <sup>+</sup> -driven rotation of F <sub>OF</sub> 1-ATP synthase(The 50th Annual Meeting of) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 54	0.1	0
30	Ion Permeation by a Folded Multiblock Amphiphilic Oligomer Achieved by Hierarchical Construction of Self-Assembled Nanopores. <i>Journal of the American Chemical Society</i> , 2012, 134, 19788-19794.	13.7	54
31	Role of the DELSEED Loop in Torque Transmission of F1-ATPase. <i>Biophysical Journal</i> , 2012, 103, 970-978.	0.5	47
32	2N1412 Real-time observation of the ATP concentration inside E. coli cells using ATP biosensor "ATeam"(Bioimaging 2,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011, 51, S99.	0.1	0
33	Visualization of cargo dynamics in COPII vesicle formation on artificial planar lipid membrane. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 45-46.	1.0	0
34	Simple Dark-Field Microscopy with Nanometer Spatial Precision and Microsecond Temporal Resolution. <i>Biophysical Journal</i> , 2010, 98, 2014-2023.	0.5	150
35	Simultaneous Optical and Electrical Single Channel Recordings on a PEG Glass. <i>Langmuir</i> , 2010, 26, 8540-8543.	3.5	5
36	Single-Molecule Assay of Biological Reaction in Femtoliter Chamber Array. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JA04.	1.5	4

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37	Mechanism of Inhibition by C-terminal $\hat{\pm}$ -Helices of the $\hat{\mu}$ Subunit of Escherichia coli FoF1-ATP Synthase. Journal of Biological Chemistry, 2009, 284, 17457-17464.	3.4	77
38	Acceleration of the ATP-binding rate of F <sub>1</sub> -ATPase by forcible forward rotation. FEBS Letters, 2009, 583, 3187-3191.	2.8	25
39	A cell lysis and protein purification "single molecule assay devices for evaluation of genetically engineered proteins. Electronics and Communications in Japan, 2009, 92, 20-30.	0.5	0
40	Visualization of cargo concentration by COPII minimal machinery in a planar lipid membrane. EMBO Journal, 2009, 28, 3279-3289.	7.8	80
41	Sequential processing from cell lysis to protein assay on a chip enabling the optimization of an F1-ATPase single molecule assay condition. Lab on A Chip, 2009, 9, 3567.	6.0	15
42	Highly sensitive restriction enzyme assay and analysis: a review. Analytical and Bioanalytical Chemistry, 2008, 391, 2423-2432.	3.7	15
43	Thermally Responsive Supramolecular Nanomeshes for On/Off Switching of the Rotary Motion of F <sub>1</sub> -ATPase at the Single-Molecule Level. Chemistry - A European Journal, 2008, 14, 1891-1896.	3.3	30
44	Photo Gel "Sol/Sol" Gel Transition and Its Patterning of a Supramolecular Hydrogel as Stimuli-Responsive Biomaterials. Chemistry - A European Journal, 2008, 14, 3977-3986.	3.3	208
45	Lipid Bilayer Microarray for Parallel Recording of Transmembrane Ion Currents. Analytical Chemistry, 2008, 80, 328-332.	6.5	101
46	A Cell Lysis and Protein Purification - Single Molecule Assay Devices for Evaluation of Genetically Engineered Proteins. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 167-175.	0.1	0
47	Electrophysiological recordings of single ion channels in planar lipid bilayers using a polymethyl methacrylate microfluidic chip. Biosensors and Bioelectronics, 2007, 22, 1111-1115.	10.1	60
48	Characterization of the Membrane Transport Assay System Using Microchamber Array. , 2006, , ,		0
49	Highly Reproducible Method of Planar Lipid Bilayer Reconstitution in Polymethyl Methacrylate Microfluidic Chip. Langmuir, 2006, 22, 1937-1942.	3.5	94
50	ATP Synthesis by Single FoF1 Molecules Encapsulated in a Femto-litter Chamber. Hyomen Kagaku, 2006, 27, 420-425.	0.0	0
51	Gold Functionalized Nano-Needles for Angular Protein Movement Visualization. Nanobiotechnology, 2005, 1, 227-236.	1.2	1
52	Microfabricated arrays of femtoliter chambers allow single molecule enzymology. Nature Biotechnology, 2005, 23, 361-365.	17.5	332
53	An artificial lipid bilayer formed on a PEG-coated glass for simultaneous electrical and optical measurement of single ion-channels. E-Journal of Surface Science and Nanotechnology, 2005, 3, 70-73.	0.4	1
54	Ultra-small chamber for single-molecule detection of biological reaction. E-Journal of Surface Science and Nanotechnology, 2005, 3, 79-81.	0.4	0

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55	Planar lipid bilayer reconstitution with a micro-fluidic system. Lab on A Chip, 2004, 4, 502.	6.0	85
56	Myb-binding site regulates the expression of glucosamine-6-phosphate isomerase in Dictyostelium discoideum. Development Growth and Differentiation, 2001, 43, 583-589.	1.5	2
57	Formation process of planar lipid bilayer observed by confocal microscopy. , 0, , .		0
58	Silicon nanoafedles with specific attachment point for visualization of protein movement. , 0, , .		0