

Takuro Ito

List of Publications by Year in descending order

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57
papers

2,271
citations

236612

25
h-index

223531

46
g-index

58
all docs

58
docs citations

58
times ranked

2862
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Image-Activated Cell Sorting. <i>Cell</i> , 2018, 175, 266-276.e13.	13.5	395
2	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.	3.3	130
3	Raman image-activated cell sorting. <i>Nature Communications</i> , 2020, 11, 3452.	5.8	116
4	High-throughput imaging flow cytometry by optofluidic time-stretch microscopy. <i>Nature Protocols</i> , 2018, 13, 1603-1631.	5.5	112
5	Probing the metabolic heterogeneity of live <i>Euglena gracilis</i> with stimulated Raman scattering microscopy. <i>Nature Microbiology</i> , 2016, 1, 16124.	5.9	105
6	High-throughput label-free molecular fingerprinting flow cytometry. <i>Science Advances</i> , 2019, 5, eaau0241.	4.7	102
7	Ultrafast confocal fluorescence microscopy beyond the fluorescence lifetime limit. <i>Optica</i> , 2018, 5, 117.	4.8	93
8	Virtual-freezing fluorescence imaging flow cytometry. <i>Nature Communications</i> , 2020, 11, 1162.	5.8	93
9	Global metabolic network reorganization by adaptive mutations allows fast growth of <i>Escherichia coli</i> on glycerol. <i>Nature Communications</i> , 2014, 5, 3233.	5.8	80
10	Metabolic and morphological changes of an oil accumulating trebouxioophycean alga in nitrogen-deficient conditions. <i>Metabolomics</i> , 2013, 9, 178-187.	1.4	72
11	A practical guide to intelligent image-activated cell sorting. <i>Nature Protocols</i> , 2019, 14, 2370-2415.	5.5	71
12	Label-free detection of aggregated platelets in blood by machine-learning-aided optofluidic time-stretch microscopy. <i>Lab on A Chip</i> , 2017, 17, 2426-2434.	3.1	65
13	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.	1.1	60
14	Sequentially addressable dielectrophoretic array for high-throughput sorting of large-volume biological compartments. <i>Science Advances</i> , 2020, 6, eaba6712.	4.7	56
15	Polypyrrole-Modified Tips for Functional Group Recognition in Scanning Tunneling Microscopy. <i>Analytical Chemistry</i> , 1999, 71, 1699-1705.	3.2	54
16	Effects of High CO ₂ on Growth and Metabolism of <i>Arabidopsis</i> Seedlings During Growth with a Constantly Limited Supply of Nitrogen. <i>Plant and Cell Physiology</i> , 2014, 55, 281-292.	1.5	51
17	Spatiotemporal expression of duplicate AGAMOUS orthologues during floral development in <i>Phalaenopsis</i> . <i>Development Genes and Evolution</i> , 2006, 216, 301-313.	0.4	44
18	Recharacterization of <i>Chlamydomonas reinhardtii</i> and its relatives with new isolates from Japan. <i>Journal of Plant Research</i> , 2010, 123, 67-78.	1.2	43

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19	Isolation of a subfamily of genes for R2R3-MYB transcription factors showing up-regulated expression under nitrogen nutrient-limited conditions. <i>Plant Molecular Biology</i> , 2003, 53, 237-245.	2.0	37
20	High-Speed Imaging Meets Single-Cell Analysis. <i>CheM</i> , 2018, 4, 2278-2300.	5.8	37
21	Development of Sex-linked Primers in Garden Asparagus (<i>Asparagus officinalis</i> L.). <i>Breeding Science</i> , 2006, 56, 327-330.	0.9	35
22	Optofluidic time-stretch quantitative phase microscopy. <i>Methods</i> , 2018, 136, 116-125.	1.9	35
23	On-chip light-sheet fluorescence imaging flow cytometry at a high flow speed of 1 m/s. <i>Biomedical Optics Express</i> , 2018, 9, 3424.	1.5	35
24	High-throughput label-free image cytometry and image-based classification of live <i>Euglena gracilis</i> . <i>Biomedical Optics Express</i> , 2016, 7, 2703.	1.5	34
25	Isolating Single <i>Euglena gracilis</i> Cells by Glass Microfluidics for Raman Analysis of Paramylon Biogenesis. <i>Analytical Chemistry</i> , 2019, 91, 9631-9639.	3.2	27
26	Patterns of population structure and complex haplotype sharing among field isolates of the green alga <i>Chlamydomonas reinhardtii</i> . <i>Molecular Ecology</i> , 2019, 28, 3977-3993.	2.0	23
27	High-Throughput Accurate Single-Cell Screening of <i>Euglena gracilis</i> with Fluorescence-Assisted Optofluidic Time-Stretch Microscopy. <i>PLoS ONE</i> , 2016, 11, e0166214.	1.1	23
28	Production and characterization of interspecific hybrids between <i>Asparagus kiusianus</i> Makino and <i>A. officinalis</i> L.. <i>Euphytica</i> , 2011, 182, 285.	0.6	19
29	AVAG2 is a putative D-class gene from an ornamental asparagus. <i>Sexual Plant Reproduction</i> , 2004, 17, 107.	2.2	18
30	Molecular phylogeny and evolution of alcohol dehydrogenase (Adh) genes in legumes. <i>BMC Plant Biology</i> , 2005, 5, 6.	1.6	16
31	Random BAC FISH of monocot plants reveals differential distribution of repetitive DNA elements in small and large chromosome species. <i>Plant Cell Reports</i> , 2012, 31, 621-628.	2.8	16
32	Alteration of fatty acid chain length of <i>Chlamydomonas reinhardtii</i> by simultaneous expression of medium-chain-specific thioesterase and acyl carrier protein. <i>Phycological Research</i> , 2017, 65, 94-99.	0.8	16
33	Targeted delivery of fluorogenic peptide aptamers into live microalgae by femtosecond laser photoporation at single-cell resolution. <i>Scientific Reports</i> , 2018, 8, 8271.	1.6	16
34	POTENTIAL OF INTERSPECIFIC HYBRIDS IN THE GENUS ASPARAGUS. <i>Acta Horticulturae</i> , 2008, , 279-284.	0.1	15
35	The AVAG1 gene is involved in development of reproductive organs in the ornamental asparagus, <i>Asparagus virgatus</i> . <i>Sexual Plant Reproduction</i> , 2004, 17, 1-8.	2.2	14
36	Production and analysis of reciprocal hybrids between <i>Asparagus officinalis</i> L. and <i>A. schoberioides</i> Kunth. <i>Genetic Resources and Crop Evolution</i> , 2007, 54, 1063-1071.	0.8	14

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37	A major isoform of mitochondrial trans-2-enoyl-CoA reductase is dispensable for wax ester production in <i>Euglena gracilis</i> under anaerobic conditions. <i>PLoS ONE</i> , 2019, 14, e0210755.	1.1	13
38	Acoustofluidic harvesting of microalgae on a single chip. <i>Biomicrofluidics</i> , 2016, 10, 034119.	1.2	12
39	Time-resolved metabolomics of a novel trebouxiophycean alga using ¹³ CO ₂ feeding. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 408-415.	1.1	11
40	The structure and expression of SEPALLATA-like genes in <i>Asparagus</i> species (Asparagaceae). <i>Sexual Plant Reproduction</i> , 2006, 19, 133-144.	2.2	10
41	Monitoring Photosynthetic Activity in Microalgal Cells by Raman Spectroscopy with Deuterium Oxide as a Tracking Probe. <i>ChemBioChem</i> , 2017, 18, 2063-2068.	1.3	9
42	Genomic organization of the AODEF gene in <i>Asparagus officinalis</i> L.. <i>Genes and Genetic Systems</i> , 2005, 80, 95-103.	0.2	8
43	Expression analysis of an APETALA1/FRUITFULL-like gene in <i>Phalaenopsis</i> sp. "Hatsuyuki"™ (Orchidaceae). <i>Horticulture Environment and Biotechnology</i> , 2011, 52, 183-195.	0.7	6
44	Hybridization between <i>Japanese</i> and <i>North American</i> <i>Chlamydomonas reinhardtii</i> (<i>Volvocales</i> , <i>Chlorophyceae</i>). <i>Phycological Research</i> , 2014, 62, 232-236.	0.8	6
45	Comparing with Phylogenetic Trees Inferred from cpDNA, ITS Sequences and RAPD Analysis in the Genus <i>Asparagus</i> (Asparagaceae). <i>Environmental Control in Biology</i> , 2012, 50, 13-18.	0.3	6
46	Mechanism of glass ampoule breakage prevention during the freeze-drying process of sodium thiopental lyophilization products on addition of sodium chloride. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 85, 731-739.	2.0	4
47	Technology for Developing Super Microalgal Biofuels. <i>Seibutsu Butsuri</i> , 2017, 57, 235-239.	0.0	4
48	Spatiotemporal monitoring of intracellular metabolic dynamics by resonance Raman microscopy with isotope labeling. <i>RSC Advances</i> , 2020, 10, 16679-16686.	1.7	4
49	Probing the Biogenesis of Polysaccharide Granules in Algal Cells at Sub-Organellar Resolution via Raman Microscopy with Stable Isotope Labeling. <i>Analytical Chemistry</i> , 2021, 93, 16796-16803.	3.2	3
50	High-throughput, label-free, multivariate cell analysis with optofluidic time-stretch microscopy. , 2017, , .		2
51	High-throughput label-free screening of <i>euglena gracilis</i> with optofluidic time-stretch quantitative phase microscopy. , 2017, , .		1
52	Metabolomics Reveal the Overview of Lipid Accumulation Mechanism in Oil-rich Microalgae. <i>Oleoscience</i> , 2014, 14, 337-342.	0.0	0
53	High-throughput optofluidic profiling of <i>Euglena gracilis</i> with morphological and chemical specificity. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
54	High-speed stimulated Raman scattering microscopy for studying the metabolic diversity of motile <i>Euglena gracilis</i> . <i>Proceedings of SPIE</i> , 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	High-throughput single-cell image analysis of living <i>Euglena gracilis</i> for efficient biofuel production. , 2016, , .		0
56	Optofluidic time-stretch quantitative phase microscopy for high-throughput label-free single-cell analysis (Conference Presentation). , 2017, , .		0
57	High-throughput label-free detection of aggregate platelets with optofluidic time-stretch microscopy (Conference Presentation). , 2017, , .		0