

# Tsuyoshi Tanaka

## List of Publications by Year in descending order

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164  
papers

5,260  
citations

76326

40  
h-index

102487

66  
g-index

167  
all docs

167  
docs citations

167  
times ranked

5751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2010, 82, 6629-6635.	6.5	309
2	Fully Automated Chemiluminescence Immunoassay of Insulin Using Antibody-Protein A-Bacterial Magnetic Particle Complexes. <i>Analytical Chemistry</i> , 2000, 72, 3518-3522.	6.5	246
3	Controlled formation of magnetite crystal by partial oxidation of ferrous hydroxide in the presence of recombinant magnetotactic bacterial protein Mms6. <i>Biomaterials</i> , 2007, 28, 5381-5389.	11.4	241
4	Size-Based Isolation of Circulating Tumor Cells in Lung Cancer Patients Using a Microcavity Array System. <i>PLoS ONE</i> , 2013, 8, e67466.	2.5	151
5	Oil Accumulation by the Oleaginous Diatom <i>Fistulifera solaris</i> as Revealed by the Genome and Transcriptome. <i>Plant Cell</i> , 2015, 27, 162-176.	6.6	149
6	Magnetic Cell Separation Using Antibody Binding with Protein A Expressed on Bacterial Magnetic Particles. <i>Analytical Chemistry</i> , 2004, 76, 6207-6213.	6.5	147
7	Effects of growth medium composition, iron sources and atmospheric oxygen concentrations on production of luciferase-bacterial magnetic particle complex by a recombinant <i>Magnetospirillum magneticum</i> AMB-1. <i>Enzyme and Microbial Technology</i> , 2001, 29, 13-19.	3.2	141
8	Origin of magnetosome membrane: Proteomic analysis of magnetosome membrane and comparison with cytoplasmic membrane. <i>Proteomics</i> , 2006, 6, 5234-5247.	2.2	136
9	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 50, 111-120.	6.6	131
10	Fabrication of amino silane-coated microchip for DNA extraction from whole blood. <i>Journal of Biotechnology</i> , 2005, 116, 105-111.	3.8	125
11	Control of the morphology and size of magnetite particles with peptides mimicking the Mms6 protein from magnetotactic bacteria. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 65-70.	9.4	124
12	Investigation of the antiviral properties of copper iodide nanoparticles against feline calicivirus. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 580-586.	2.2	113
13	Contributions of Phosphate to DNA Adsorption/Desorption Behaviors on Aminosilane-Modified Magnetic Nanoparticles. <i>Langmuir</i> , 2009, 25, 2956-2961.	3.5	103
14	Microcavity Array System for Size-Based Enrichment of Circulating Tumor Cells from the Blood of Patients with Small-Cell Lung Cancer. <i>Analytical Chemistry</i> , 2013, 85, 5692-5698.	6.5	89
15	Chemiluminescence enzyme immunoassay using ProteinA-bacterial magnetite complex. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 194, 126-131.	2.3	80
16	Rapid and sensitive detection of 17 $\beta$ -estradiol in environmental water using automated immunoassay system with bacterial magnetic particles. <i>Journal of Biotechnology</i> , 2004, 108, 153-159.	3.8	78
17	Establishment of a Genetic Transformation System for the Marine Pennate Diatom <i>Fistulifera</i> sp. Strain JPCC DA0580-A High Triglyceride Producer. <i>Marine Biotechnology</i> , 2013, 15, 48-55.	2.4	71
18	Selection and characterization of microalgae with potential for nutrient removal from municipal wastewater and simultaneous lipid production. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 565-572.	2.2	71

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19	Biotechnological application of nano-scale engineered bacterial magnetic particles. Journal of Materials Chemistry, 2004, 14, 2099.	6.7	70
20	Marine Diatom, <i>Navicula</i> sp. Strain JPCC DA0580 and Marine Green Alga, <i>Chlorella</i> sp. Strain NKG400014 as Potential Sources for Biodiesel Production. Applied Biochemistry and Biotechnology, 2010, 161, 483-490.	2.9	67
21	Novel detection system for biomolecules using nano-sized bacterial magnetic particles and magnetic force microscopy. Journal of Biotechnology, 2005, 120, 308-314.	3.8	66
22	Fully automated immunoassay system of endocrine disrupting chemicals using monoclonal antibodies chemically conjugated to bacterial magnetic particles. Analytica Chimica Acta, 2003, 475, 75-83.	5.4	65
23	Characterization of marine microalga, <i>Scenedesmus</i> sp. strain JPCC GA0024 toward biofuel production. Biotechnology Letters, 2009, 31, 1367-1372.	2.2	65
24	Magnetic bacterial protein Mms6 controls morphology, crystallinity and magnetism of cobalt-doped magnetite nanoparticles in vitro. Journal of Materials Chemistry, 2011, 21, 15244.	6.7	63
25	<i>Altererythrobacter ishigakiensis</i> sp. nov., an astaxanthin-producing bacterium isolated from a marine sediment. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2956-2961.	1.7	63
26	High-Efficiency Single-Cell Entrapment and Fluorescence in Situ Hybridization Analysis Using a Poly(dimethylsiloxane) Microfluidic Device Integrated with a Black Poly(ethylene terephthalate) Micromesh. Analytical Chemistry, 2008, 80, 5139-5145.	6.5	57
27	Proteomics Analysis of Oil Body-Associated Proteins in the Oleaginous Diatom. Journal of Proteome Research, 2013, 12, 5293-5301.	3.7	56
28	Enhancement of glycerol metabolism in the oleaginous marine diatom <i>Fistulifera solaris</i> JPCC DA0580 to improve triacylglycerol productivity. Biotechnology for Biofuels, 2015, 8, 4.	6.2	56
29	Capture and release of DNA using aminosilane-modified bacterial magnetic particles for automated detection system of single nucleotide polymorphisms. Biotechnology and Bioengineering, 2006, 94, 862-868.	3.3	53
30	Stoichiometrically Controlled Immobilization of Multiple Enzymes on Magnetic Nanoparticles by the Magnetosome Display System for Efficient Cellulose Hydrolysis. Biomacromolecules, 2015, 16, 3863-3868.	5.4	49
31	Enhanced NADPH production in the pentose phosphate pathway accelerates lipid accumulation in the oleaginous diatom <i>Fistulifera solaris</i> . Algal Research, 2017, 23, 126-134.	4.6	49
32	Outdoor Cultivation of Marine Diatoms for Year-Round Production of Biofuels. Marine Drugs, 2017, 15, 94.	4.6	49
33	Detection of biomolecular interaction between biotin and streptavidin on a self-assembled monolayer using magnetic nanoparticles. Biotechnology and Bioengineering, 2004, 88, 543-546.	3.3	47
34	Structure and properties of oil bodies in diatoms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160408.	4.0	47
35	Single nucleotide polymorphism detection in aldehyde dehydrogenase 2 (ALDH2) gene using bacterial magnetic particles based on dissociation curve analysis. Biotechnology and Bioengineering, 2004, 87, 687-694.	3.3	46
36	Alkane production by the marine cyanobacterium <i>Synechococcus</i> sp. NKBG15041c possessing the $\Delta^2$ -olefin biosynthesis pathway. Applied Microbiology and Biotechnology, 2015, 99, 1521-1529.	3.6	45

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37	Microfluidic device using chemiluminescence and a DNA-arrayed thin film transistor photosensor for single nucleotide polymorphism genotyping of PCR amplicons from whole blood. <i>Lab on A Chip</i> , 2009, 9, 1052.	6.0	43
38	In Vivo Live Cell Imaging for the Quantitative Monitoring of Lipids by Using Raman Microspectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 8224-8230.	6.5	43
39	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, <i>Fistulifera</i> sp. JPCC DA0580. <i>Bioresource Technology</i> , 2013, 137, 132-138.	9.6	42
40	Seasonal variation of biomass and oil production of the oleaginous diatom <i>Fistulifera</i> sp. in outdoor vertical bubble column and raceway-type bioreactors. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 720-724.	2.2	41
41	Homoeolog expression bias in allopolyploid oleaginous marine diatom <i>Fistulifera solaris</i> . <i>BMC Genomics</i> , 2018, 19, 330.	2.8	41
42	Metabolic Innovations Underpinning the Origin and Diversification of the Diatom Chloroplast. <i>Biomolecules</i> , 2019, 9, 322.	4.0	39
43	Detection of HbA1c by boronate affinity immunoassay using bacterial magnetic particles. <i>Biosensors and Bioelectronics</i> , 2001, 16, 1089-1094.	10.1	38
44	Morphological and molecular phylogenetic analysis of the high triglyceride-producing marine diatom, <i>Fistulifera solaris</i> sp. nov. (Bacillariophyceae). <i>Phycological Research</i> , 2014, 62, 257-268.	1.6	37
45	Cadmium Recovery by a Sulfate-Reducing Magnetotactic Bacterium, <i>Desulfovibrio magneticus</i> RS-1, Using Magnetic Separation. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 833-840.	2.9	36
46	Electrochemical detection of HbA1c, a maker for diabetes, using a flow immunoassay system. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2051-2056.	10.1	36
47	High-throughput pyrosequencing of the chloroplast genome of a highly neutral-lipid-producing marine pennate diatom, <i>Fistulifera</i> sp. strain JPCC DA0580. <i>Photosynthesis Research</i> , 2011, 109, 223-229.	2.9	36
48	Development and evaluation of an automated workstation for single nucleotide polymorphism discrimination using bacterial magnetic particles. <i>Biosensors and Bioelectronics</i> , 2003, 19, 325-330.	10.1	34
49	Leukocyte counting from a small amount of whole blood using a size-controlled microcavity array. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2017-2024.	3.3	34
50	Electrochemical probe for on-chip type flow immunoassay: Immunoglobulin G labeled with ferrocenecarbaldehyde. <i>Biotechnology and Bioengineering</i> , 2005, 90, 14-19.	3.3	33
51	Profiling of Polar Lipids in Marine Oleaginous Diatom <i>Fistulifera solaris</i> JPCC DA0580: Prediction of the Potential Mechanism for Eicosapentaenoic Acid-Incorporation into Triacylglycerol. <i>Marine Drugs</i> , 2014, 12, 3218-3230.	4.6	31
52	High-content analysis of single cells directly assembled on CMOS sensor based on color imaging. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1460-1465.	10.1	30
53	Profiling of fatty acid methyl esters from the oleaginous diatom <i>Fistulifera</i> sp. strain JPCC DA0580 under nutrition-sufficient and -deficient conditions. <i>Journal of Applied Phycology</i> , 2014, 26, 2295-2302.	2.8	30
54	Single nucleotide polymorphism genotyping of aldehyde dehydrogenase 2 gene using a single bacterial magnetic particle. <i>Biosensors and Bioelectronics</i> , 2003, 18, 661-666.	10.1	29

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55	Production of eicosapentaenoic acid by high cell density cultivation of the marine oleaginous diatom <i>Fistulifera solaris</i> . <i>Bioresource Technology</i> , 2017, 245, 567-572.	9.6	29
56	Characterization of magnetic nanoparticles modified with thiol functionalized PAMAM dendron for DNA recovery. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 469-475.	9.4	27
57	Biosynthesis of Polyunsaturated Fatty Acids in the Oleaginous Marine Diatom <i>Fistulifera</i> sp. Strain JPCC DA0580. <i>Marine Drugs</i> , 2013, 11, 5008-5023.	4.6	27
58	Manipulation of a Single Circulating Tumor Cell Using Visualization of Hydrogel Encapsulation toward Single-Cell Whole-Genome Amplification. <i>Analytical Chemistry</i> , 2016, 88, 7230-7237.	6.5	26
59	On-chip type cation-exchange chromatography with ferrocene-labeled anti-hemoglobin antibody and electrochemical detector for determination of hemoglobin A1c level. <i>Analytica Chimica Acta</i> , 2009, 638, 186-190.	5.4	25
60	Oleosome-Associated Protein of the Oleaginous Diatom <i>Fistulifera solaris</i> Contains an Endoplasmic Reticulum-Targeting Signal Sequence. <i>Marine Drugs</i> , 2014, 12, 3892-3903.	4.6	25
61	Dynamic oil body generation in the marine oleaginous diatom <i>Fistulifera solaris</i> in response to nutrient limitation as revealed by morphological and lipidomic analysis. <i>Algal Research</i> , 2015, 12, 359-367.	4.6	25
62	Novel Method for Selection of Antimicrobial Peptides from a Phage Display Library by Use of Bacterial Magnetic Particles. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7600-7606.	3.1	24
63	Effective expression of human proteins on bacterial magnetic particles in an anchor gene deletion mutant of <i>Magnetospirillum magneticum</i> AMB-1. <i>Biochemical and Biophysical Research Communications</i> , 2012, 426, 7-11.	2.1	23
64	Proteomics analysis of lipid droplets indicates involvement of membrane trafficking proteins in lipid droplet breakdown in the oleaginous diatom <i>Fistulifera solaris</i> . <i>Algal Research</i> , 2019, 44, 101660.	4.6	23
65	Automated DNA extraction from genetically modified maize using aminosilane-modified bacterial magnetic particles. <i>Journal of Biotechnology</i> , 2006, 125, 361-368.	3.8	22
66	Development of the automated circulating tumor cell recovery system with microcavity array. <i>Biosensors and Bioelectronics</i> , 2015, 67, 438-442.	10.1	22
67	Peptide-mediated microalgae harvesting method for efficient biofuel production. <i>Biotechnology for Biofuels</i> , 2016, 9, 10.	6.2	22
68	Oligonucleotide-arrayed TFT photosensor applicable for DNA chip technology. <i>Biotechnology and Bioengineering</i> , 2006, 95, 22-28.	3.3	21
69	Chloroplast-targeting protein expression in the oleaginous diatom <i>Fistulifera solaris</i> JPCC DA0580 toward metabolic engineering. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 28-34.	2.2	21
70	Development of High-Performance and Rapid Immunoassay for Model Food Allergen Lysozyme Using Antibody-Conjugated Bacterial Magnetic Particles and Fully Automated System. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 109-116.	2.9	20
71	Spontaneous Integration of Transmembrane Peptides into a Bacterial Magnetic Particle Membrane and Its Application to Display of Useful Proteins. <i>Analytical Chemistry</i> , 2004, 76, 3764-3769.	6.5	20
72	Identification and Functional Analysis of Delta-9 Desaturase, a Key Enzyme in PUFA Synthesis, Isolated from the Oleaginous Diatom <i>Fistulifera</i> . <i>PLoS ONE</i> , 2013, 8, e73507.	2.5	20

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73	Comprehensive analysis of triacylglycerol lipases in the oleaginous diatom <i>Fistulifera solaris</i> JPCC DA0580 with transcriptomics under lipid degradation. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 258-265.	2.2	20
74	Transcriptomic profiling of single circulating tumor cells provides insight into human metastatic gastric cancer. <i>Communications Biology</i> , 2022, 5, 20.	4.4	20
75	Real-time detection of DNA hybridization on microarray using a CCD-based imaging system equipped with a rotated microlens array disk. <i>Biosensors and Bioelectronics</i> , 2011, 26, 1942-1946.	10.1	19
76	Production of $\gamma$ -3 fatty acids in marine cyanobacterium <i>Synechococcus</i> sp. strain NKBG 15041c via genetic engineering. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6899-6905.	3.6	19
77	Efficient DNA release from PAMAM dendrimer-modified superparamagnetic nanoparticles for DNA recovery. <i>Polymer Journal</i> , 2012, 44, 672-677.	2.7	18
78	Electrochemical disinfection of fish pathogens in seawater without the production of a lethal concentration of chlorine using a flow reactor. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 480-484.	2.2	18
79	High-Resolution Magnetic Force Microscope Images of a Magnetic Particle Chain Extracted from Magnetic Bacteria AMB-1. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1343-L1345.	1.5	17
80	Functional Expression of Thyroid-Stimulating Hormone Receptor on Nano-Sized Bacterial Magnetic Particles in <i>Magnetospirillum magneticum</i> AMB-1. <i>International Journal of Molecular Sciences</i> , 2013, 14, 14426-14438.	4.1	17
81	Monitoring of cellular behaviors by microcavity array-based single-cell patterning. <i>Analyst</i> , The, 2014, 139, 425-430.	3.5	17
82	Enhancement of Biomass and Lipid Productivities of Water Surface-Floating Microalgae by Chemical Mutagenesis. <i>Marine Drugs</i> , 2017, 15, 151.	4.6	17
83	Glycosylceramides from marine green microalga <i>Tetraselmis</i> sp.. <i>Phytochemistry</i> , 2013, 85, 107-114.	2.9	16
84	Rapid imaging and detection of circulating tumor cells using a wide-field fluorescence imaging system. <i>Analytica Chimica Acta</i> , 2017, 969, 1-7.	5.4	16
85	Digital Cell Counting Device Integrated with a Single-Cell Array. <i>PLoS ONE</i> , 2014, 9, e89011.	2.5	15
86	A role for the cell-wall protein silacidin in cell size of the diatom <i>Thalassiosira pseudonana</i> . <i>ISME Journal</i> , 2017, 11, 2452-2464.	9.8	15
87	Integrated molecular analysis of the inactivation of a non-enveloped virus, feline calicivirus, by UV-C radiation. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 63-68.	2.2	15
88	High-Throughput Manipulation of Circulating Tumor Cells Using a Multiple Single-Cell Encapsulation System with a Digital Micromirror Device. <i>Analytical Chemistry</i> , 2018, 90, 9734-9741.	6.5	15
89	Capsid protein oxidation in feline calicivirus using an electrochemical inactivation treatment. <i>Journal of Hazardous Materials</i> , 2015, 283, 410-415.	12.4	14
90	Colony fingerprint for discrimination of microbial species based on lensless imaging of microcolonies. <i>PLoS ONE</i> , 2017, 12, e0174723.	2.5	14

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91	Synthesis of Bacterial Magnetic Particles During Cell Cycle of <i>Magnetospirillum magneticum</i> AMB-1. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 155-160.	2.9	13
92	Identification of a frustule-associated protein of the marine pennate diatom <i>Fistulifera</i> sp. strain JPCC DA0580. <i>Marine Genomics</i> , 2014, 16, 39-44.	1.1	13
93	UV-C irradiation accelerates neutral lipid synthesis in the marine oleaginous diatom <i>Fistulifera solaris</i> . <i>Bioresource Technology</i> , 2017, 245, 1520-1526.	9.6	13
94	Potential of water surface-floating microalgae for biodiesel production: Floating-biomass and lipid productivities. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 314-318.	2.2	13
95	<i>Microbulbifer arenaceus</i> sp. nov., a New Endolithic Bacterium Isolated from the Inside of Red Sandstone. <i>Current Microbiology</i> , 2003, 47, 412-6.	2.2	12
96	Atomic force microscope imaging of <i>Escherichia coli</i> cell using anti- <i>E. coli</i> antibody-conjugated probe (in aqueous) solutions. <i>Electrochimica Acta</i> , 1999, 44, 3827-3832.	5.2	11
97	Single-cell detection using a thin film transistor photosensor with micro-partitions. <i>Lab on A Chip</i> , 2010, 10, 3348.	6.0	11
98	Draft Genome Sequence of Marine Cyanobacterium <i>Synechococcus</i> sp. Strain NKBG15041c. <i>Genome Announcements</i> , 2013, 1, .	0.8	11
99	Functional expression of an scFv on bacterial magnetic particles by in vitro docking. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 1-5.	2.1	11
100	Functional Expression of Full-Length TrkA in the Prokaryotic Host <i>Magnetospirillum magneticum</i> AMB-1 by Using a Magnetosome Display System. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1472-1476.	3.1	11
101	DNA recovery from a single bacterial cell using charge-reversible magnetic nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 117-122.	5.0	11
102	Enhancement of nutrient recovery from microalgae in hydrothermal liquefaction using activated carbon. <i>Fuel Processing Technology</i> , 2016, 148, 282-288.	7.2	11
103	Colony Fingerprint-Based Discrimination of <i>Staphylococcus</i> species with Machine Learning Approaches. <i>Sensors</i> , 2018, 18, 2789.	3.8	11
104	Enhanced heterologous protein display on bacterial magnetic particles using a lon protease gene deletion mutant in <i>Magnetospirillum magneticum</i> AMB-1. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 65-70.	2.2	10
105	Taming chlorophylls by early eukaryotes underpinned algal interactions and the diversification of the eukaryotes on the oxygenated Earth. <i>ISME Journal</i> , 2019, 13, 1899-1910.	9.8	10
106	Evaluation of cancer cell deformability by microcavity array. <i>Analytical Biochemistry</i> , 2017, 520, 16-21.	2.4	9
107	Biosynthesis of Thermoresponsive Magnetic Nanoparticles by Magnetosome Display System. <i>Bioconjugate Chemistry</i> , 2018, 29, 1756-1762.	3.6	9
108	Gel-based cell manipulation method for isolation and genotyping of single-adherent cells. <i>Analyst</i> , 2019, 144, 990-996.	3.5	9



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109	Amplification-free detection of bacterial genes using a signaling probe-based DNA microarray. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113659.	10.1	9
110	Assessment of the anti-biofouling potentials of a copper iodide-doped nylon mesh. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 1043-1050.	3.6	8
111	Monitoring of benzene-induced hematotoxicity in mice by serial leukocyte counting using a microcavity array. <i>Biosensors and Bioelectronics</i> , 2013, 40, 110-114.	10.1	8
112	Novel designs of single-chain MHC I/peptide complex for the magnetosome display system. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 53-58.	2.1	8
113	Characterization of a novel marine unicellular alga, <i>Pseudoneochloris</i> sp. strain NKY372003 as a high carbohydrate producer. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 687-692.	2.2	8
114	Development of Titania-Integrated Silica Cell Walls of the Titanium-Resistant Diatom, <i>Fistulifera solaris</i> . <i>ACS Applied Bio Materials</i> , 2018, 1, 2021-2029.	4.6	7
115	Genome analysis and genetic transformation of a water surface-floating microalga <i>Chlorococcum</i> sp. FFG039. <i>Scientific Reports</i> , 2019, 9, 11200.	3.3	7
116	Rapid discrimination of fungal species by the colony fingerprinting. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111747.	10.1	7
117	Intron-mediated enhancement of transgene expression in the oleaginous diatom <i>Fistulifera solaris</i> towards bisabolene production. <i>Algal Research</i> , 2021, 57, 102345.	4.6	7
118	Engineered chlorophyll catabolism conferring predator resistance for microalgal biomass production. <i>Metabolic Engineering</i> , 2021, 66, 79-86.	7.0	7
119	Discrimination of DNA mismatches by direct force measurement for identification of tuna species. <i>Analytica Chimica Acta</i> , 2006, 561, 150-155.	5.4	6
120	Simple and rapid CD4 testing based on large-field imaging system composed of microcavity array and two-dimensional photosensor. <i>Biosensors and Bioelectronics</i> , 2015, 67, 350-355.	10.1	6
121	Utilization of diatom frustules for thermal management applications. <i>Journal of Applied Phycology</i> , 2017, 29, 1907-1911.	2.8	6
122	Physiological modelling of the response of <i>Kocuria rosea</i> exposed to changing water activity. <i>Biotechnology Letters</i> , 2002, 24, 603-609.	2.2	5
123	DNA recovery from a single bacterial cell based on electrostatic interaction using amine dendron-modified magnetic nanoparticles. <i>Electrochimica Acta</i> , 2015, 168, 308-312.	5.2	5
124	Bacterial Inactivation by Applying an Alternating Electromagnetic Field Using PAMAM Dendron-modified Magnetic Nanoparticles. <i>Electrochemistry</i> , 2016, 84, 324-327.	1.4	5
125	Algal biomass production by phosphorus recovery and recycling from wastewater using amorphous calcium silicate hydrates. <i>Bioresource Technology</i> , 2021, 340, 125678.	9.6	5
126	Fabrication of Genetic Diagnostic Chip using DNA-arrayed TFT Photosensor. <i>Electrochemistry</i> , 2008, 76, 573-575.	1.4	4



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127	Inducible expression system for the marine cyanobacterium <i>Synechococcus</i> sp. strain NKBC 15041c. International Journal of Hydrogen Energy, 2014, 39, 19382-19388.	7.1	4
128	Prostaglandin production by the microalga with heterologous expression of cyclooxygenase. Biotechnology and Bioengineering, 2021, 118, 2734-2743.	3.3	4
129	Magnetosome membrane engineering to improve G protein-coupled receptor activities in the magnetosome display system. Metabolic Engineering, 2021, 67, 125-132.	7.0	4
130	Tracking Difference in Gene Expression in a Time-Course Experiment Using Gene Set Enrichment Analysis. PLoS ONE, 2014, 9, e107629.	2.5	4
131	Effects of fatty acid synthase-inhibitors on polyunsaturated fatty acid production in marine diatom <i>Fistulifera solaris</i> JPCC DAO580. Journal of Bioscience and Bioengineering, 2022, 133, 340-346.	2.2	4
132	Gold Biorecovery from Plating Waste by Magnetotactic Bacterium, <i>Magnetospirillum magneticum</i> AMB-1. Materials Research Society Symposia Proceedings, 2009, 1169, 312.	0.1	3
133	Assessment on the oil accumulation by knockdown of triacylglycerol lipase in the oleaginous diatom <i>Fistulifera solaris</i> . Scientific Reports, 2021, 11, 20905.	3.3	3
134	Single nucleotide mismatch analysis using oligonucleotide probes synthesized on bacterial magnetic particle. New Biotechnology, 2003, 20, 305-309.	2.7	2
135	Evaluation of a Microbial Sensor as a Tool for Antimicrobial Activity Test of Cosmetic Preservatives. Biocontrol Science, 2015, 20, 247-253.	0.8	2
136	Colony Fingerprinting “A Novel Method for Discrimination of Food-Contaminating Microorganisms Based on Bioimage Informatics. , 2019, , .		2
137	Performance evaluation of a high-throughput separation system for circulating tumor cells based on microcavity array. Engineering in Life Sciences, 2020, 20, 485-493.	3.6	2
138	Analysis of UV irradiation-induced cell settling of an oleaginous diatom, <i>Fistulifera solaris</i> , for efficient biomass recovery. Algal Research, 2020, 47, 101834.	4.6	2
139	Lipid droplet-associated proteins in diverse microalgae revealed by proteomic analysis. Perspectives in Phycology, 2017, 4, 25-32.	1.9	2
140	Application of Cold-tolerant Marine diatom, <i>Mayamaea</i> sp. JPCC CTDA0820 to Low-Energy Cultivation Process for Stable Biodiesel Production. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2015, 94, 1087-1091.	0.2	2
141	Signaling probe design for amplification-free detection of bacterial genes using DNA microarray. Journal of Bioscience and Bioengineering, 2022, 133, 133-139.	2.2	2
142	Draft Genome Sequence of Marine Cyanobacterium <i>Synechococcus</i> sp. Strain NKBC042902, Which Harbors a Homogeneous Plasmid Available for Metabolic Engineering. Genome Announcements, 2014, 2, .	0.8	1
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