Tomoko Yoshino

List of Publications by Year
in descending order

117	3,146	136950	182427
papers	citations	32	51
		h-index	g-index

121	121	121	3570
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Recent advances in research on biointerfaces: From cell surfaces to artificial interfaces. Journal of Bioscience and Bioengineering, 2022, , .	2.2	6
3	Transcriptomic profiling of single circulating tumor cells provides insight into human metastatic gastric cancer. Communications Biology, 2022, 5, 20.	4.4	20
4	Effects of fatty acid synthase-inhibitors on polyunsaturated fatty acid production in marine diatom Fistulifera solaris JPCC DA0580. Journal of Bioscience and Bioengineering, 2022, 133, 340-346.	2.2	4
5	Singleâ€cell genotyping of phytoplankton from ocean water by gelâ€based cell manipulation. Biotechnology Journal, 2022, , 2100633.	3.5	0
6	Prostaglandin production by the microalga with heterologous expression of cyclooxygenase. Biotechnology and Bioengineering, 2021, 118, 2734-2743.	3.3	4
7	Outside Back Cover Image, Volume 118, Number 7, July 2021. Biotechnology and Bioengineering, 2021, 118, iii.	3.3	0
8	Intron-mediated enhancement of transgene expression in the oleaginous diatom Fistulifera solaris towards bisabolene production. Algal Research, 2021, 57, 102345.	4.6	7
9	Engineered chlorophyll catabolism conferring predator resistance for microalgal biomass production. Metabolic Engineering, 2021, 66, 79-86.	7.0	7
10	Magnetosome membrane engineering to improve G protein-coupled receptor activities in the magnetosome display system. Metabolic Engineering, 2021, 67, 125-132.	7.0	4
11	Algal biomass production by phosphorus recovery and recycling from wastewater using amorphous calcium silicate hydrates. Bioresource Technology, 2021, 340, 125678.	9.6	5
12	Amplification-free detection of bacterial genes using a signaling probe-based DNA microarray. Biosensors and Bioelectronics, 2021, 194, 113659.	10.1	9
13	Lensless imaging-based discrimination between tumour cells and blood cells towards circulating tumour cell cultivation. Analyst, The, 2021, 146, 7327-7335.	3.5	1
14	Assessment on the oil accumulation by knockdown of triacylglycerol lipase in the oleaginous diatom Fistulifera solaris. Scientific Reports, 2021, 11, 20905.	3.3	3
15	Radular stylus of Cryptochiton stelleri: A multifunctional lightweight and flexible fiber-reinforced composite. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103991.	3.1	14
16	Performance evaluation of a highâ€throughput separation system for circulating tumor cells based on microcavity array. Engineering in Life Sciences, 2020, 20, 485-493.	3.6	2
17	Analysis of UV irradiation-induced cell settling of an oleaginous diatom, Fistulifera solaris, for efficient biomass recovery. Algal Research, 2020, 47, 101834.	4.6	2
18	Characterization of a novel marine unicellular alga, Pseudoneochloris sp. strain NKY372003 as a high carbohydrate producer. Journal of Bioscience and Bioengineering, 2020, 129, 687-692.	2.2	8

#	Article	IF	Citations
19	Selection and characterization of microalgae with potential for nutrient removal from municipal wastewater and simultaneous lipid production. Journal of Bioscience and Bioengineering, 2020, 129, 565-572.	2.2	71
20	The Effects of Solvents and Solid-to-Solvent Ratios on Ultrasound-Assisted Extraction of Carotenoids from Chlorella vulgaris. International Journal of Technology, 2020, 11, 941.	0.8	6
21	Proteomics analysis of lipid droplets indicates involvement of membrane trafficking proteins in lipid droplet breakdown in the oleaginous diatom Fistulifera solaris. Algal Research, 2019, 44, 101660.	4.6	23
22	Rapid discrimination of fungal species by the colony fingerprinting. Biosensors and Bioelectronics, 2019, 146, 111747.	10.1	7
23	Gel-based cell manipulation method for isolation and genotyping of single-adherent cells. Analyst, The, 2019, 144, 990-996.	3.5	9
24	Taming chlorophylls by early eukaryotes underpinned algal interactions and the diversification of the eukaryotes on the oxygenated Earth. ISME Journal, 2019, 13, 1899-1910.	9.8	10
25	Comprehensive analysis of triacylglycerol lipases in the oleaginous diatom Fistulifera solaris JPCC DA0580 with transcriptomics under lipid degradation. Journal of Bioscience and Bioengineering, 2018, 126, 258-265.	2.2	20
26	Biosynthesis of Thermoresponsive Magnetic Nanoparticles by Magnetosome Display System. Bioconjugate Chemistry, 2018, 29, 1756-1762.	3.6	9
27	Marine microalgae for production of biofuels and chemicals. Current Opinion in Biotechnology, 2018, 50, 111-120.	6.6	131
28	Development of Titania-Integrated Silica Cell Walls of the Titanium-Resistant Diatom, Fistulifera solaris. ACS Applied Bio Materials, 2018, 1, 2021-2029.	4.6	7
29	Colony Fingerprint-Based Discrimination of Staphylococcus species with Machine Learning Approaches. Sensors, 2018, 18, 2789.	3.8	11
30	Bioengineering and Biotechnological Applications of Bacterial Magnetic Particles. , 2018, , 77-93.		0
31	High-Throughput Manipulation of Circulating Tumor Cells Using a Multiple Single-Cell Encapsulation System with a Digital Micromirror Device. Analytical Chemistry, 2018, 90, 9734-9741.	6.5	15
32	Homoeolog expression bias in allopolyploid oleaginous marine diatom Fistulifera solaris. BMC Genomics, 2018, 19, 330.	2.8	41
33	Evaluation of cancer cell deformability by microcavity array. Analytical Biochemistry, 2017, 520, 16-21.	2.4	9
34	Enhanced NADPH production in the pentose phosphate pathway accelerates lipid accumulation in the oleaginous diatom Fistulifera solaris. Algal Research, 2017, 23, 126-134.	4.6	49
35	Rapid imaging and detection of circulating tumor cells using a wide-field fluorescence imaging system. Analytica Chimica Acta, 2017, 969, 1-7.	5.4	16
36	Production of eicosapentaenoic acid by high cell density cultivation of the marine oleaginous diatom Fistulifera solaris. Bioresource Technology, 2017, 245, 567-572.	9.6	29

#	Article	IF	Citations
37	Structure and properties of oil bodies in diatoms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160408.	4.0	47
38	Production of Ï‰3 fatty acids in marine cyanobacterium Synechococcus sp. strain NKBG 15041c via genetic engineering. Applied Microbiology and Biotechnology, 2017, 101, 6899-6905.	3.6	19
39	Potential of water surface-floating microalgae for biodiesel production: Floating-biomass and lipid productivities. Journal of Bioscience and Bioengineering, 2017, 123, 314-318.	2.2	13
40	Outdoor Cultivation of Marine Diatoms for Year-Round Production of Biofuels. Marine Drugs, 2017, 15, 94.	4.6	49
41	Enhancement of Biomass and Lipid Productivities of Water Surface-Floating Microalgae by Chemical Mutagenesis. Marine Drugs, 2017, 15, 151.	4.6	17
42	Colony fingerprint for discrimination of microbial species based on lensless imaging of microcolonies. PLoS ONE, 2017, 12, e0174723.	2.5	14
43	Lipid droplet-associated proteins in diverse microalgae revealed by proteomic analysis. Perspectives in Phycology, 2017, 4, 25-32.	1.9	2
44	Peptide-mediated microalgae harvesting method for efficient biofuel production. Biotechnology for Biofuels, 2016, 9, 10.	6.2	22
45	Towards single-cell genome analysis of circulating tumor cells based on microcavity array. , 2016, , .		0
46	Manipulation of a Single Circulating Tumor Cell Using Visualization of Hydrogel Encapsulation toward Single-Cell Whole-Genome Amplification. Analytical Chemistry, 2016, 88, 7230-7237.	6.5	26
47	DNA recovery from a single bacterial cell using charge-reversible magnetic nanoparticles. Colloids and Surfaces B: Biointerfaces, 2016, 139, 117-122.	5.0	11
48	Simple and rapid CD4 testing based on large-field imaging system composed of microcavity array and two-dimensional photosensor. Biosensors and Bioelectronics, 2015, 67, 350-355.	10.1	6
49	Development of the automated circulating tumor cell recovery system with microcavity array. Biosensors and Bioelectronics, 2015, 67, 438-442.	10.1	22
50	Alkane production by the marine cyanobacterium Synechococcus sp. NKBG15041c possessing the Î±-olefin biosynthesis pathway. Applied Microbiology and Biotechnology, 2015, 99, 1521-1529.	3.6	45
51	Oil Accumulation by the Oleaginous Diatom Fistulifera solaris as Revealed by the Genome and Transcriptome. Plant Cell, 2015, 27, 162-176.	6.6	149
52	Functional Expression of Full-Length TrkA in the Prokaryotic Host Magnetospirillum magneticum AMB-1 by Using a Magnetosome Display System. Applied and Environmental Microbiology, 2015, 81, 1472-1476.	3.1	11
53	Novel designs of single-chain MHC I/peptide complex for the magnetosome display system. Protein Engineering, Design and Selection, 2015, 28, 53-58.	2.1	8
54	Enhancement of glycerol metabolism in the oleaginous marine diatom Fistulifera solaris JPCC DA0580 to improve triacylglycerol productivity. Biotechnology for Biofuels, 2015, 8, 4.	6.2	56

#	Article	IF	Citations
55	Dynamic oil body generation in the marine oleaginous diatom Fistulifera solaris in response to nutrient limitation as revealed by morphological and lipidomic analysis. Algal Research, 2015, 12, 359-367.	4.6	25
56	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
57	Chloroplast-targeting protein expression in the oleaginous diatom Fistulifera solaris JPCC DA0580 toward metabolic engineering. Journal of Bioscience and Bioengineering, 2015, 119, 28-34.	2.2	21
58	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
59	Oleosome-Associated Protein of the Oleaginous Diatom Fistulifera solaris Contains an Endoplasmic Reticulum-Targeting Signal Sequence. Marine Drugs, 2014, 12, 3892-3903.	4.6	25
60	Inducible expression system for the marine cyanobacterium Synechococcus sp. strain NKBG 15041c. International Journal of Hydrogen Energy, 2014, 39, 19382-19388.	7.1	4
61	Draft Genome Sequence of Marine Cyanobacterium Synechococcus sp. Strain NKBG042902, Which Harbors a Homogeneous Plasmid Available for Metabolic Engineering. Genome Announcements, 2014, 2, .	0.8	1
62	Profiling of Polar Lipids in Marine Oleaginous Diatom Fistulifera solaris JPCC DA0580: Prediction of the Potential Mechanism for Eicosapentaenoic Acid-Incorporation into Triacylglycerol. Marine Drugs, 2014, 12, 3218-3230.	4.6	31
63	Identification of a frustule-associated protein of the marine pennate diatom Fistulifera sp. strain JPCC DA0580. Marine Genomics, 2014, 16, 39-44.	1.1	13
64	Profiling of fatty acid methyl esters from the oleaginous diatom Fistulifera sp. strain JPCC DA0580 under nutrition-sufficient and -deficient conditions. Journal of Applied Phycology, 2014, 26, 2295-2302.	2.8	30
65	Seasonal variation of biomass and oil production of the oleaginous diatom Fistulifera sp. in outdoor vertical bubble column and raceway-type bioreactors. Journal of Bioscience and Bioengineering, 2014, 117, 720-724.	2.2	41
66	Monitoring of cellular behaviors by microcavity array-based single-cell patterning. Analyst, The, 2014, 139, 425-430.	3.5	17
67	Morphological and molecular phylogenetic analysis of the high triglycerideâ€producing marine diatom, <scp>F</scp>istulifera solaris sp. nov. (<scp>B</scp>acillariophyceae). Phycological Research, 2014, 62, 257-268.	1.6	37
68	In Vivo Live Cell Imaging for the Quantitative Monitoring of Lipids by Using Raman Microspectroscopy. Analytical Chemistry, 2014, 86, 8224-8230.	6.5	43
69	Functional expression of an scFv on bacterial magnetic particles by in vitro docking. Biochemical and Biophysical Research Communications, 2014, 445, 1-5.	2.1	11
70	Tracking Difference in Gene Expression in a Time-Course Experiment Using Gene Set Enrichment Analysis. PLoS ONE, 2014, 9, e107629.	2.5	4
71	Enhanced heterologous protein display on bacterial magnetic particles using a lon protease gene deletion mutant in Magnetospirillum magneticum AMB-1. Journal of Bioscience and Bioengineering, 2013, 116, 65-70.	2.2	10
72	Proteomics Analysis of Oil Body-Associated Proteins in the Oleaginous Diatom. Journal of Proteome Research, 2013, 12, 5293-5301.	3.7	56

#	Article	IF	Citations
73	Establishment of a Genetic Transformation System for the Marine Pennate Diatom Fistulifera sp. Strain JPCC DA0580â€"A High Triglyceride Producer. Marine Biotechnology, 2013, 15, 48-55.	2.4	71
74	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, Fistulifera sp. JPCC DA0580. Bioresource Technology, 2013, 137, 132-138.	9.6	42
75	Microcavity Array System for Size-Based Enrichment of Circulating Tumor Cells from the Blood of Patients with Small-Cell Lung Cancer. Analytical Chemistry, 2013, 85, 5692-5698.	6.5	89
76	Monitoring of benzene-induced hematotoxicity in mice by serial leukocyte counting using a microcavity array. Biosensors and Bioelectronics, 2013, 40, 110-114.	10.1	8
77	Draft Genome Sequence of Marine Cyanobacterium Synechococcus sp. Strain NKBG15041c. Genome Announcements, 2013, 1, .	0.8	11
78	Size-Based Isolation of Circulating Tumor Cells in Lung Cancer Patients Using a Microcavity Array System. PLoS ONE, 2013, 8, e67466.	2.5	151
79	Identification and Functional Analysis of Delta-9 Desaturase, a Key Enzyme in PUFA Synthesis, Isolated from the Oleaginous Diatom Fistulifera. PLoS ONE, 2013, 8, e73507.	2.5	20
80	Functional Expression of Thyroid-Stimulating Hormone Receptor on Nano-Sized Bacterial Magnetic Particles in Magnetospirillum magneticum AMB-1. International Journal of Molecular Sciences, 2013, 14, 14426-14438.	4.1	17
81	Biosynthesis of Polyunsaturated Fatty Acids in the Oleaginous Marine Diatom Fistulifera sp. Strain JPCC DA0580. Marine Drugs, 2013, 11, 5008-5023.	4.6	27
82	Surface modification of bacterial magnetic nanoparticles using artificial polypeptides consisting of a repeated asparagine-serine dipeptide and a transmembrane peptide. Materials Research Society Symposia Proceedings, 2012, 1464, 1.	0.1	0
83	Effective expression of human proteins on bacterial magnetic particles in an anchor gene deletion mutant of Magnetospirillum magneticum AMB-1. Biochemical and Biophysical Research Communications, 2012, 426, 7-11.	2.1	23
84	Leukocyte counting from a small amount of whole blood using a sizeâ€controlled microcavity array. Biotechnology and Bioengineering, 2012, 109, 2017-2024.	3.3	34
85	Comprehensive evaluation of leukocyte lineage derived from human hematopoietic cells in humanized mice. Journal of Bioscience and Bioengineering, 2012, 113, 529-535.	2.2	7
86	Assessment of Benzene-Induced Hematotoxicity Using a Human-Like Hematopoietic Lineage in NOD/Shi-scid/IL-2RÎ³null Mice. PLoS ONE, 2012, 7, e50448.	2.5	6
87	Sensitivity of microcavity array system for circulating tumor cells in lung cancer patients.. Journal of Clinical Oncology, 2012, 30, e21007-e21007.	1.6	0
88	Microfluidic Device with Chemical Gradient for Single-Cell Cytotoxicity Assays. Analytical Chemistry, 2011, 83, 3648-3654.	6.5	48
89	High-throughput pyrosequencing of the chloroplast genome of a highly neutral-lipid-producing marine pennate diatom, Fistulifera sp. strain JPCC DA0580. Photosynthesis Research, 2011, 109, 223-229.	2.9	36
90	Surface modification of magnetic nanoparticles using asparagines-serine polypeptide designed to control interactions with cell surfaces. Biomaterials, 2010, 31, 4952-4957.	11.4	40

#	Article	IF	Citations
91	In Vivo Biotinylation of Bacterial Magnetic Particles by a Truncated Form of Escherichia coli Biotin Ligase and Biotin Acceptor Peptide. Applied and Environmental Microbiology, 2010, 76, 5785-5790.	3.1	19
92	Inducible Expression of Transmembrane Proteins on Bacterial Magnetic Particles in Magnetospirillum magneticum AMB-1. Applied and Environmental Microbiology, 2010, 76, 1152-1157.	3.1	29
93	Bioengineering of Bacterial Magnetic Particles and their Applications in Biotechnology. Recent Patents on Biotechnology, 2010, 4, 214-225.	0.8	18
94	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. Analytical Chemistry, 2010, 82, 6629-6635.	6.5	309
95	Magnetic Separation of Human Podocalyxin-like Protein 1 (hPCLP1)-Positive Cells from Peripheral Blood and Umbilical Cord Blood Using Anti-hPCLP1 Monoclonal Antibody and Protein A Expressed on Bacterial Magnetic Particles. Cell Structure and Function, 2009, 34, 23-30.	1.1	8
96	Nanoâ€sized bacterial magnetic particles displaying pyruvate phosphate dikinase for pyrosequencing. Biotechnology and Bioengineering, 2009, 103, 130-137.	3.3	15
97	Direct magnetic separation of immune cells from whole blood using bacterial magnetic particles displaying protein G. Biotechnology Progress, 2009, 25, 219-226.	2.6	33
98	Magnetic Separation of Melanoma-Specific Cytotoxic T Lymphocytes from a Vaccinated Melanoma Patientâ€™s Blood Using MHC/Peptide Complex-Conjugated Bacterial Magnetic Particles. Bioconjugate Chemistry, 2009, 20, 304-309.	3.6	19
99	A stable human progesterone receptor expressing HeLa reporter cell line as a tool in chemical evaluation at the different cell-cycle phases. Toxicology Letters, 2009, 186, 123-129.	0.8	5
100	Novel nanocomposites consisting of in vivo-biotinylated bacterial magnetic particles and quantum dots for magnetic separation and fluorescent labeling of cancer cells. Journal of Materials Chemistry, 2009, 19, 6361.	6.7	33
101	Reporter gene assay against lipophilic chemicals based on siteâ€specific genomic recombination of a nuclear receptor gene, its response element, and a luciferase reporter gene within a stable HeLa cell line. Biotechnology and Bioengineering, 2008, 99, 1453-1461.	3.3	4
102	Magnetic cell separation using nanoâ€sized bacterial magnetic particles with reconstructed magnetosome membrane. Biotechnology and Bioengineering, 2008, 101, 470-477.	3.3	79
103	Novel method for evaluation of chemicals based on ligand-dependent recruitment of GFP labeled coactivator to estrogen receptor displayed on bacterial magnetic particles. Analytica Chimica Acta, 2008, 626, 71-77.	5.4	15
104	Noncovalent Immobilization of Streptavidin on In Vitro- and In Vivo-Biotinylated Bacterial Magnetic Particles. Applied and Environmental Microbiology, 2008, 74, 5139-5145.	3.1	32
105	Bioengineering of bacterial magnetic particles and its application to estrogen receptor-ligand binding assay. Materials Research Society Symposia Proceedings, 2008, 1094, 1.	0.1	2
106	One-step separation of CD20+cells from whole blood using bacterial magnetic particles displaying protein G. Materials Research Society Symposia Proceedings, 2008, 1094, 1.	0.1	0
107	Site-selective immobilization of streptavidin on enzymatically biotinylated bacterial magnetic particles. Materials Research Society Symposia Proceedings, 2008, 1094, 1.	0.1	0
108	ãƒ¤ã‚ªãƒŠãƒŽçŁæ°—ãƒ“ãƒ¼ãƒ ã®åŒ»ç™‚¿œç”¨. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2008, 59, 377-381	0.2	0

#	Article	IF	Citations
109	Fully automated immunoassay for detection of prostate-specific antigen using nano-magnetic beads and micro-polystyrene bead composites, â€˜Beads on Beadsâ€™. Analytica Chimica Acta, 2007, 597, 331-339.	5.4	46
110	Efficient and Stable Display of Functional Proteins on Bacterial Magnetic Particles Using Mms13 as a Novel Anchor Molecule. Applied and Environmental Microbiology, 2006, 72, 465-471.	3.1	98
111	Automated DNA extraction from genetically modified maize using aminosilane-modified bacterial magnetic particles. Journal of Biotechnology, 2006, 125, 361-368.	3.8	22
112	Magnetic separation of CD14+ cells using antibody binding with protein A expressed on bacterial magnetic particles for generating dendritic cells. Biochemical and Biophysical Research Communications, 2006, 350, 1019-1025.	2.1	47
113	Development of a novel method for screening of estrogenic compounds using nano-sized bacterial magnetic particles displaying estrogen receptor. Analytica Chimica Acta, 2005, 532, 105-111.	5.4	47
114	Development of efficient expression system for protein display on bacterial magnetic particles. Biochemical and Biophysical Research Communications, 2005, 338, 1678-1681.	2.1	41
115	Assembly of G Protein-Coupled Receptors onto Nanosized Bacterial Magnetic Particles Using Mms16 as an Anchor Molecule. Applied and Environmental Microbiology, 2004, 70, 2880-2885.	3.1	58
116	Single nucleotide polymorphism genotyping of aldehyde dehydrogenase 2 gene using a single bacterial magnetic particle. Biosensors and Bioelectronics, 2003, 18, 661-666.	10.1	29
117	Single Nucleotide Polymorphism Analysis Using a Bacterial Magnetic Particle Microarray. Electrochemistry, 2001, 69, 1008-1012.	1.4	7