

Tomoko Yoshino

List of Publications by Year in descending order

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117
papers

3,146
citations

136950

32
h-index

182427

51
g-index

121
all docs

121
docs citations

121
times ranked

3570
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	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
3	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
4	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 50, 111-120.	6.6	131
5	Efficient and Stable Display of Functional Proteins on Bacterial Magnetic Particles Using Mms13 as a Novel Anchor Molecule. <i>Applied and Environmental Microbiology</i> , 2006, 72, 465-471.	3.1	98
6	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
7	Magnetic cell separation using nano-sized bacterial magnetic particles with reconstructed magnetosome membrane. <i>Biotechnology and Bioengineering</i> , 2008, 101, 470-477.	3.3	79
8	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
9	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
10	Assembly of G Protein-Coupled Receptors onto Nanosized Bacterial Magnetic Particles Using Mms16 as an Anchor Molecule. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2880-2885.	3.1	58
11	Proteomics Analysis of Oil Body-Associated Proteins in the Oleaginous Diatom. <i>Journal of Proteome Research</i> , 2013, 12, 5293-5301.	3.7	56
12	Enhancement of glycerol metabolism in the oleaginous marine diatom <i>Fistulifera solaris</i> JPCC DA0580 to improve triacylglycerol productivity. <i>Biotechnology for Biofuels</i> , 2015, 8, 4.	6.2	56
13	Stoichiometrically Controlled Immobilization of Multiple Enzymes on Magnetic Nanoparticles by the Magnetosome Display System for Efficient Cellulose Hydrolysis. <i>Biomacromolecules</i> , 2015, 16, 3863-3868.	5.4	49
14	Enhanced NADPH production in the pentose phosphate pathway accelerates lipid accumulation in the oleaginous diatom <i>Fistulifera solaris</i> . <i>Algal Research</i> , 2017, 23, 126-134.	4.6	49
15	Outdoor Cultivation of Marine Diatoms for Year-Round Production of Biofuels. <i>Marine Drugs</i> , 2017, 15, 94.	4.6	49
16	Microfluidic Device with Chemical Gradient for Single-Cell Cytotoxicity Assays. <i>Analytical Chemistry</i> , 2011, 83, 3648-3654.	6.5	48
17	Development of a novel method for screening of estrogenic compounds using nano-sized bacterial magnetic particles displaying estrogen receptor. <i>Analytica Chimica Acta</i> , 2005, 532, 105-111.	5.4	47
18	Magnetic separation of CD14+ cells using antibody binding with protein A expressed on bacterial magnetic particles for generating dendritic cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 1019-1025.	2.1	47

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19	Structure and properties of oil bodies in diatoms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160408.	4.0	47
20	Fully automated immunoassay for detection of prostate-specific antigen using nano-magnetic beads and micro-polystyrene bead composites, "Beads on Beads"™. <i>Analytica Chimica Acta</i> , 2007, 597, 331-339.	5.4	46
21	Alkane production by the marine cyanobacterium <i>Synechococcus</i> sp. NKBG15041c possessing the $\hat{\iota}$ -olefin biosynthesis pathway. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1521-1529.	3.6	45
22	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
23	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
24	Development of efficient expression system for protein display on bacterial magnetic particles. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1678-1681.	2.1	41
25	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
26	Homoeolog expression bias in allopolyploid oleaginous marine diatom <i>Fistulifera solaris</i> . <i>BMC Genomics</i> , 2018, 19, 330.	2.8	41
27	Surface modification of magnetic nanoparticles using asparagines-serine polypeptide designed to control interactions with cell surfaces. <i>Biomaterials</i> , 2010, 31, 4952-4957.	11.4	40
28	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
29	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
30	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
31	Direct magnetic separation of immune cells from whole blood using bacterial magnetic particles displaying protein G. <i>Biotechnology Progress</i> , 2009, 25, 219-226.	2.6	33
32	Novel nanocomposites consisting of in vivo-biotinylated bacterial magnetic particles and quantum dots for magnetic separation and fluorescent labeling of cancer cells. <i>Journal of Materials Chemistry</i> , 2009, 19, 6361.	6.7	33
33	Noncovalent Immobilization of Streptavidin on In Vitro- and In Vivo-Biotinylated Bacterial Magnetic Particles. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5139-5145.	3.1	32
34	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
35	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
36	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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37	Inducible Expression of Transmembrane Proteins on Bacterial Magnetic Particles in <i>Magnetospirillum magneticum</i> AMB-1. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1152-1157.	3.1	29
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Development of the automated circulating tumor cell recovery system with microcavity array. <i>Biosensors and Bioelectronics</i> , 2015, 67, 438-442.	10.1	22
47	Peptide-mediated microalgae harvesting method for efficient biofuel production. <i>Biotechnology for Biofuels</i> , 2016, 9, 10.	6.2	22
48	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
49	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
50	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
51	Transcriptomic profiling of single circulating tumor cells provides insight into human metastatic gastric cancer. <i>Communications Biology</i> , 2022, 5, 20.	4.4	20
52	Magnetic Separation of Melanoma-Specific Cytotoxic T Lymphocytes from a Vaccinated Melanoma Patient's Blood Using MHC/Peptide Complex-Conjugated Bacterial Magnetic Particles. <i>Bioconjugate Chemistry</i> , 2009, 20, 304-309.	3.6	19
53	In Vivo Biotinylation of Bacterial Magnetic Particles by a Truncated Form of <i>Escherichia coli</i> Biotin Ligase and Biotin Acceptor Peptide. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5785-5790.	3.1	19
54	Production of ω 3 fatty acids in marine cyanobacterium <i>Synechococcus</i> sp. strain NKBC 15041c via genetic engineering. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6899-6905.	3.6	19

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55	Bioengineering of Bacterial Magnetic Particles and their Applications in Biotechnology. Recent Patents on Biotechnology, 2010, 4, 214-225.	0.8	18
56	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
57	Monitoring of cellular behaviors by microcavity array-based single-cell patterning. Analyst, The, 2014, 139, 425-430.	3.5	17
58	Enhancement of Biomass and Lipid Productivities of Water Surface-Floating Microalgae by Chemical Mutagenesis. Marine Drugs, 2017, 15, 151.	4.6	17
59	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
60	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
61	Nano-sized bacterial magnetic particles displaying pyruvate phosphate dikinase for pyrosequencing. Biotechnology and Bioengineering, 2009, 103, 130-137.	3.3	15
62	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
63	Colony fingerprint for discrimination of microbial species based on lensless imaging of microcolonies. PLoS ONE, 2017, 12, e0174723.	2.5	14
64	Radular stylus of <i>Cryptochiton stelleri</i> : A multifunctional lightweight and flexible fiber-reinforced composite. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103991.	3.1	14
65	Identification of a frustule-associated protein of the marine pennate diatom <i>Fistulifera</i> sp. strain JPCC DA0580. Marine Genomics, 2014, 16, 39-44.	1.1	13
66	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
67	Draft Genome Sequence of Marine Cyanobacterium <i>Synechococcus</i> sp. Strain NKBG15041c. Genome Announcements, 2013, 1, .	0.8	11
68	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
69	Functional Expression of Full-Length TrkA in the Prokaryotic Host <i>Magnetospirillum magneticum</i> AMB-1 by Using a Magnetosome Display System. Applied and Environmental Microbiology, 2015, 81, 1472-1476.	3.1	11
70	DNA recovery from a single bacterial cell using charge-reversible magnetic nanoparticles. Colloids and Surfaces B: Biointerfaces, 2016, 139, 117-122.	5.0	11
71	Colony Fingerprint-Based Discrimination of <i>Staphylococcus</i> species with Machine Learning Approaches. Sensors, 2018, 18, 2789.	3.8	11
72	Enhanced heterologous protein display on bacterial magnetic particles using a lon protease gene deletion mutant in <i>Magnetospirillum magneticum</i> AMB-1. Journal of Bioscience and Bioengineering, 2013, 116, 65-70.	2.2	10

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73	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
74	Evaluation of cancer cell deformability by microcavity array. <i>Analytical Biochemistry</i> , 2017, 520, 16-21.	2.4	9
75	Biosynthesis of Thermoresponsive Magnetic Nanoparticles by Magnetosome Display System. <i>Bioconjugate Chemistry</i> , 2018, 29, 1756-1762.	3.6	9
76	Gel-based cell manipulation method for isolation and genotyping of single-adherent cells. <i>Analyst</i> , 2019, 144, 990-996.	3.5	9
77	Amplification-free detection of bacterial genes using a signaling probe-based DNA microarray. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113659.	10.1	9
78	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. <i>Cell Structure and Function</i> , 2009, 34, 23-30.	1.1	8
79	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
80	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
81	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
82	Comprehensive evaluation of leukocyte lineage derived from human hematopoietic cells in humanized mice. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 529-535.	2.2	7
83	Development of <i>Titanium-Integrated Silica Cell Walls of the Titanium-Resistant Diatom, <i>Fistulifera solaris</i></i> . <i>ACS Applied Bio Materials</i> , 2018, 1, 2021-2029.	4.6	7
84	Rapid discrimination of fungal species by the colony fingerprinting. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111747.	10.1	7
85	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
86	Engineered chlorophyll catabolism conferring predator resistance for microalgal biomass production. <i>Metabolic Engineering</i> , 2021, 66, 79-86.	7.0	7
87	Single Nucleotide Polymorphism Analysis Using a Bacterial Magnetic Particle Microarray. <i>Electrochemistry</i> , 2001, 69, 1008-1012.	1.4	7
88	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
89	Assessment of Benzene-Induced Hematotoxicity Using a Human-Like Hematopoietic Lineage in NOD/Shi-scid/IL-2R β null Mice. <i>PLoS ONE</i> , 2012, 7, e50448.	2.5	6
90	Recent advances in research on biointerfaces: From cell surfaces to artificial interfaces. <i>Journal of Bioscience and Bioengineering</i> , 2022, , .	2.2	6

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91	The Effects of Solvents and Solid-to-Solvent Ratios on Ultrasound-Assisted Extraction of Carotenoids from <i>Chlorella vulgaris</i> . <i>International Journal of Technology</i> , 2020, 11, 941.	0.8	6
92	A stable human progesterone receptor expressing HeLa reporter cell line as a tool in chemical evaluation at the different cell-cycle phases. <i>Toxicology Letters</i> , 2009, 186, 123-129.	0.8	5
93	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
94	Reporter gene assay against lipophilic chemicals based on site-specific genomic recombination of a nuclear receptor gene, its response element, and a luciferase reporter gene within a stable HeLa cell line. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1453-1461.	3.3	4
95	Inducible expression system for the marine cyanobacterium <i>Synechococcus</i> sp. strain NKBG 15041c. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19382-19388.	7.1	4
96	Prostaglandin production by the microalga with heterologous expression of cyclooxygenase. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2734-2743.	3.3	4
97	Magnetosome membrane engineering to improve G protein-coupled receptor activities in the magnetosome display system. <i>Metabolic Engineering</i> , 2021, 67, 125-132.	7.0	4
98	Tracking Difference in Gene Expression in a Time-Course Experiment Using Gene Set Enrichment Analysis. <i>PLoS ONE</i> , 2014, 9, e107629.	2.5	4
99	Effects of fatty acid synthase-inhibitors on polyunsaturated fatty acid production in marine diatom <i>Fistulifera solaris</i> JPCC DA0580. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 340-346.	2.2	4
100	Assessment on the oil accumulation by knockdown of triacylglycerol lipase in the oleaginous diatom <i>Fistulifera solaris</i> . <i>Scientific Reports</i> , 2021, 11, 20905.	3.3	3
101	Bioengineering of bacterial magnetic particles and its application to estrogen receptor-ligand binding assay. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1094, 1.	0.1	2
102	Performance evaluation of a high-throughput separation system for circulating tumor cells based on microcavity array. <i>Engineering in Life Sciences</i> , 2020, 20, 485-493.	3.6	2
103	Analysis of UV irradiation-induced cell settling of an oleaginous diatom, <i>Fistulifera solaris</i> , for efficient biomass recovery. <i>Algal Research</i> , 2020, 47, 101834.	4.6	2
104	Lipid droplet-associated proteins in diverse microalgae revealed by proteomic analysis. <i>Perspectives in Phycology</i> , 2017, 4, 25-32.	1.9	2
105	Application of Cold-tolerant Marine diatom, <i>Mayamaea</i> sp. JPCC CTDA0820 to Low-Energy Cultivation Process for Stable Biodiesel Production. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2015, 94, 1087-1091.	0.2	2
106	Signaling probe design for amplification-free detection of bacterial genes using DNA microarray. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 133-139.	2.2	2
107	Draft Genome Sequence of Marine Cyanobacterium <i>Synechococcus</i> sp. Strain NKBG042902, Which Harbors a Homogeneous Plasmid Available for Metabolic Engineering. <i>Genome Announcements</i> , 2014, 2, .	0.8	1
108	Lensless imaging-based discrimination between tumour cells and blood cells towards circulating tumour cell cultivation. <i>Analyst, The</i> , 2021, 146, 7327-7335.	3.5	1

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109	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
110	Site-selective immobilization of streptavidin on enzymatically biotinylated bacterial magnetic particles. Materials Research Society Symposia Proceedings, 2008, 1094, 1.	0.1	0
111	“ <i>afã,ã,ãfŠãfŽçæ°—ãf“ãf¼ã,ãã®ãE»ç™,ã;œç”</i> ”. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2008, 50, 377-381.		
112	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
113	Towards single-cell genome analysis of circulating tumor cells based on microcavity array. , 2016, , .		0
114	Bioengineering and Biotechnological Applications of Bacterial Magnetic Particles. , 2018, , 77-93.		0
115	Outside Back Cover Image, Volume 118, Number 7, July 2021. Biotechnology and Bioengineering, 2021, 118, iii.	3.3	0
116	Sensitivity of microcavity array system for circulating tumor cells in lung cancer patients.. Journal of Clinical Oncology, 2012, 30, e21007-e21007.	1.6	0
117	Single-cell genotyping of phytoplankton from ocean water by gel-based cell manipulation. Biotechnology Journal, 2022, , 2100633.	3.5	0