

Tsuyoshi Tanaka

List of Publications by Year in descending order

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Version: 2024-02-01

164
papers

5,260
citations

76196

40
h-index

102304

66
g-index

167
all docs

167
docs citations

167
times ranked

5751
citing authors

#	ARTICLE	IF	CITATIONS
1	Signaling probe design for amplification-free detection of bacterial genes using DNA microarray. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 133-139.	1.1	2
2	Transcriptomic profiling of single circulating tumor cells provides insight into human metastatic gastric cancer. <i>Communications Biology</i> , 2022, 5, 20.	2.0	20
3	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.	1.1	4
4	Single-cell genotyping of phytoplankton from ocean water by gel-based cell manipulation. <i>Biotechnology Journal</i> , 2022, , 2100633.	1.8	0
5	Molecular Insights into Lipoxygenases in Diatoms Based on Structure Prediction: a Pioneering Study on Lipoxygenases Found in <i>Pseudo-nitzschia arenysensis</i> and <i>Fragilariopsis cylindrus</i> . <i>Marine Biotechnology</i> , 2022, 24, 468-479.	1.1	1
6	Prostaglandin production by the microalga with heterologous expression of cyclooxygenase. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2734-2743.	1.7	4
7	Outside Back Cover Image, Volume 118, Number 7, July 2021. <i>Biotechnology and Bioengineering</i> , 2021, 118, iii.	1.7	0
8	Intron-mediated enhancement of transgene expression in the oleaginous diatom <i>Fistulifera solaris</i> towards bisabolene production. <i>Algal Research</i> , 2021, 57, 102345.	2.4	7
9	Engineered chlorophyll catabolism conferring predator resistance for microalgal biomass production. <i>Metabolic Engineering</i> , 2021, 66, 79-86.	3.6	7
10	Magnetosome membrane engineering to improve G protein-coupled receptor activities in the magnetosome display system. <i>Metabolic Engineering</i> , 2021, 67, 125-132.	3.6	4
11	Algal biomass production by phosphorus recovery and recycling from wastewater using amorphous calcium silicate hydrates. <i>Bioresource Technology</i> , 2021, 340, 125678.	4.8	5
12	Amplification-free detection of bacterial genes using a signaling probe-based DNA microarray. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113659.	5.3	9
13	Lensless imaging-based discrimination between tumour cells and blood cells towards circulating tumour cell cultivation. <i>Analyst, The</i> , 2021, 146, 7327-7335.	1.7	1
14	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.	1.6	3
15	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.	2.0	2
16	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.	2.4	2
17	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.	1.1	8
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.	1.1	71

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19	Metabolic Innovations Underpinning the Origin and Diversification of the Diatom Chloroplast. <i>Biomolecules</i> , 2019, 9, 322.	1.8	39
20	Genome analysis and genetic transformation of a water surface-floating microalga <i>Chlorococcum</i> sp. FFG039. <i>Scientific Reports</i> , 2019, 9, 11200.	1.6	7
21	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.	2.4	23
22	Rapid discrimination of fungal species by the colony fingerprinting. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111747.	5.3	7
23	Gel-based cell manipulation method for isolation and genotyping of single-adherent cells. <i>Analyst</i> , 2019, 144, 990-996.	1.7	9
24	Colony Fingerprinting – A Novel Method for Discrimination of Food-Contaminating Microorganisms Based on Bioimage Informatics. , 2019, , .		2
25	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.	4.4	10
26	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.	1.1	15
27	Comprehensive analysis of triacylglycerol lipases in the oleaginous diatom <i>Fistulifera solaris</i> JPC DA0580 with transcriptomics under lipid degradation. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 258-265.	1.1	20
28	Biosynthesis of Thermoresponsive Magnetic Nanoparticles by Magnetosome Display System. <i>Bioconjugate Chemistry</i> , 2018, 29, 1756-1762.	1.8	9
29	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 50, 111-120.	3.3	131
30	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.	2.3	7
31	Colony Fingerprint-Based Discrimination of <i>Staphylococcus</i> species with Machine Learning Approaches. <i>Sensors</i> , 2018, 18, 2789.	2.1	11
32	Bioengineering and Biotechnological Applications of Bacterial Magnetic Particles. , 2018, , 77-93.		0
33	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.	3.2	15
34	Homoeolog expression bias in allopolyploid oleaginous marine diatom <i>Fistulifera solaris</i> . <i>BMC Genomics</i> , 2018, 19, 330.	1.2	41
35	Evaluation of cancer cell deformability by microcavity array. <i>Analytical Biochemistry</i> , 2017, 520, 16-21.	1.1	9
36	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.	2.4	49

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37	UV-C irradiation accelerates neutral lipid synthesis in the marine oleaginous diatom <i>Fistulifera solaris</i> . <i>Bioresource Technology</i> , 2017, 245, 1520-1526.	4.8	13
38	Rapid imaging and detection of circulating tumor cells using a wide-field fluorescence imaging system. <i>Analytica Chimica Acta</i> , 2017, 969, 1-7.	2.6	16
39	Utilization of diatom frustules for thermal management applications. <i>Journal of Applied Phycology</i> , 2017, 29, 1907-1911.	1.5	6
40	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.	4.8	29
41	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.	4.4	15
42	Structure and properties of oil bodies in diatoms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160408.	1.8	47
43	Production of ω 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.	1.7	19
44	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.	1.1	13
45	Outdoor Cultivation of Marine Diatoms for Year-Round Production of Biofuels. <i>Marine Drugs</i> , 2017, 15, 94.	2.2	49
46	Enhancement of Biomass and Lipid Productivities of Water Surface-Floating Microalgae by Chemical Mutagenesis. <i>Marine Drugs</i> , 2017, 15, 151.	2.2	17
47	Colony fingerprint for discrimination of microbial species based on lensless imaging of microcolonies. <i>PLoS ONE</i> , 2017, 12, e0174723.	1.1	14
48	Lipid droplet-associated proteins in diverse microalgae revealed by proteomic analysis. <i>Perspectives in Phycology</i> , 2017, 4, 25-32.	1.9	2
49	Bacterial Inactivation by Applying an Alternating Electromagnetic Field Using PAMAM Dendron-modified Magnetic Nanoparticles. <i>Electrochemistry</i> , 2016, 84, 324-327.	0.6	5
50	High-Content Analysis of Single Cells Using a Wide-Field Imaging Sensor. <i>ECS Transactions</i> , 2016, 75, 139-146.	0.3	1
51	Peptide-mediated microalgae harvesting method for efficient biofuel production. <i>Biotechnology for Biofuels</i> , 2016, 9, 10.	6.2	22
52	Towards single-cell genome analysis of circulating tumor cells based on microcavity array. , 2016, , .		0
53	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.	3.2	26
54	DNA recovery from a single bacterial cell using charge-reversible magnetic nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 117-122.	2.5	11

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55	Enhancement of nutrient recovery from microalgae in hydrothermal liquefaction using activated carbon. <i>Fuel Processing Technology</i> , 2016, 148, 282-288.	3.7	11
56	Development of a Novel Cell Monitoring System Based on Lens-Less Imaging Toward Cultivation of Circulating Tumor Cells. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
57	Copy Number Variation Analysis of Circulating Tumor Cells at a Single Cell Level Based on Hydrogel Encapsulation. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
58	High-Content Analysis of Single Cells Using a Wide-Field Imaging Sensor. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
59	Lipidomic Analysis of Marine Microalgae. , 2016, , 573-588.		0
60	Evaluation of a Microbial Sensor as a Tool for Antimicrobial Activity Test of Cosmetic Preservatives. <i>Biocontrol Science</i> , 2015, 20, 247-253.	0.2	2
61	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.	5.3	6
62	Development of the automated circulating tumor cell recovery system with microcavity array. <i>Biosensors and Bioelectronics</i> , 2015, 67, 438-442.	5.3	22
63	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.	1.7	45
64	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.	3.1	149
65	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.	1.4	11
66	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.	1.0	8
67	Reprint of: DNA recovery from a single bacterial cell based on electrostatic interaction using amine dendron-modified magnetic nanoparticles. <i>Electrochimica Acta</i> , 2015, 183, 143-147.	2.6	0
68	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
69	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.	2.6	5
70	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.	2.4	25
71	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.	2.6	49
72	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.	1.1	21

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73	Capsid protein oxidation in feline calicivirus using an electrochemical inactivation treatment. <i>Journal of Hazardous Materials</i> , 2015, 283, 410-415.	6.5	14
74	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
75	Digital Cell Counting Device Integrated with a Single-Cell Array. <i>PLoS ONE</i> , 2014, 9, e89011.	1.1	15
76	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.	2.2	25
77	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.	3.8	4
78	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
79	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.	2.2	31
80	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.	0.4	13
81	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.	1.5	30
82	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.	1.1	41
83	Monitoring of cellular behaviors by microcavity array-based single-cell patterning. <i>Analyst</i> , 2014, 139, 425-430.	1.7	17
84	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.	0.8	37
85	In Vivo Live Cell Imaging for the Quantitative Monitoring of Lipids by Using Raman Microspectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 8224-8230.	3.2	43
86	Functional expression of an scFv on bacterial magnetic particles by in vitro docking. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 1-5.	1.0	11
87	Electrochemical synthesis of a novel diacylglycerol derivative. <i>Electrochemistry</i> , 2014, 82, 277-281.		
88	Tracking Difference in Gene Expression in a Time-Course Experiment Using Gene Set Enrichment Analysis. <i>PLoS ONE</i> , 2014, 9, e107629.	1.1	4
89	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.	1.1	10
90	Proteomics Analysis of Oil Body-Associated Proteins in the Oleaginous Diatom. <i>Journal of Proteome Research</i> , 2013, 12, 5293-5301.	1.8	56

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91	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.	1.1	71
92	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.	1.1	18
93	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.	4.8	42
94	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.	3.2	89
95	Monitoring of benzene-induced hematotoxicity in mice by serial leukocyte counting using a microcavity array. <i>Biosensors and Bioelectronics</i> , 2013, 40, 110-114.	5.3	8
96	Glycosylceramides from marine green microalga <i>Tetraselmis</i> sp.. <i>Phytochemistry</i> , 2013, 85, 107-114.	1.4	16
97	Draft Genome Sequence of Marine Cyanobacterium <i>Synechococcus</i> sp. Strain NKBG15041c. <i>Genome Announcements</i> , 2013, 1, .	0.8	11
98	Size-Based Isolation of Circulating Tumor Cells in Lung Cancer Patients Using a Microcavity Array System. <i>PLoS ONE</i> , 2013, 8, e67466.	1.1	151
99	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.	1.1	20
100	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.	1.8	17
101	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.	2.2	27
102	Surface modification of bacterial magnetic nanoparticles using artificial polypeptides consisting of a repeated asparagine-serine dipeptide and a transmembrane peptide. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1464, 1.	0.1	0
103	Efficient DNA release from PAMAM dendrimer-modified superparamagnetic nanoparticles for DNA recovery. <i>Polymer Journal</i> , 2012, 44, 672-677.	1.3	18
104	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.	1.0	23
105	Assessment of the anti-biofouling potentials of a copper iodide-doped nylon mesh. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 1043-1050.	1.7	8
106	Leukocyte counting from a small amount of whole blood using a size-controlled microcavity array. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2017-2024.	1.7	34
107	Prevention of marine biofouling on nylon mesh doped with silver iodide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 396, 41-45.	2.3	0
108	Investigation of the antiviral properties of copper iodide nanoparticles against feline calicivirus. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 580-586.	1.1	113

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109	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.	5.0	27
110	Abstract 2370: Development of microcavity array system for size- and deformability-based isolation of circulating tumor cells. , 2012, , .		0
111	Magnetic bacterial protein Mms6 controls morphology, crystallinity and magnetism of cobalt-doped magnetite nanoparticles in vitro. <i>Journal of Materials Chemistry</i> , 2011, 21, 15244.	6.7	63
112	<i>Altererythrobacter ishigakiensis</i> sp. nov., an astaxanthin-producing bacterium isolated from a marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 2956-2961.	0.8	63
113	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.	1.6	36
114	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.	5.3	19
115	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. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 483-490.	1.4	67
116	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.	5.0	124
117	High-content analysis of single cells directly assembled on CMOS sensor based on color imaging. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1460-1465.	5.3	30
118	Electrochemical and Magnetic Technologies for Bio Applications. <i>Nanostructure Science and Technology</i> , 2010, , 151-167.	0.1	0
119	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2010, 82, 6629-6635.	3.2	309
120	Single-cell detection using a thin film transistor photosensor with micro-partitions. <i>Lab on A Chip</i> , 2010, 10, 3348.	3.1	11
121	Gold Biorecovery from Plating Waste by Magnetotactic Bacterium, <i>Magnetospirillum magneticum</i> AMB-1. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1169, 312.	0.1	3
122	Performance of marine diatom <i>Navicula</i> sp. JPCC DA0580 as high lipids producer for biofuel production. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S42.	1.1	0
123	Characterization of marine microalga, <i>Scenedesmus</i> sp. strain JPCC GA0024 toward biofuel production. <i>Biotechnology Letters</i> , 2009, 31, 1367-1372.	1.1	65
124	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.	2.6	25
125	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.	3.1	43
126	Contributions of Phosphate to DNA Adsorption/Desorption Behaviors on Aminosilane-Modified Magnetic Nanoparticles. <i>Langmuir</i> , 2009, 25, 2956-2961.	1.6	103

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127	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. <i>Analytical Chemistry</i> , 2008, 80, 5139-5145.	3.2	57
128	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.	1.4	24
129	Fabrication of Genetic Diagnostic Chip using DNA-arrayed TFT Photosensor. <i>Electrochemistry</i> , 2008, 76, 573-575.	0.6	4
130	Electrochemical detection of HbA1c, a maker for diabetes, using a flow immunoassay system. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2051-2056.	5.3	36
131	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.	5.7	241
132	339 Development of Micro-Magnetic Actuator using Magnetotactic Bacteria : Motion control of Magnetotactic Bacteria by Dielectrophoresis. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2007, 2006.19, 334-335.	0.0	0
133	Automated DNA extraction from genetically modified maize using aminosilane-modified bacterial magnetic particles. <i>Journal of Biotechnology</i> , 2006, 125, 361-368.	1.9	22
134	Origin of magnetosome membrane: Proteomic analysis of magnetosome membrane and comparison with cytoplasmic membrane. <i>Proteomics</i> , 2006, 6, 5234-5247.	1.3	136
135	Discrimination of DNA mismatches by direct force measurement for identification of tuna species. <i>Analytica Chimica Acta</i> , 2006, 561, 150-155.	2.6	6
136	Capture and release of DNA using aminosilane-modified bacterial magnetic particles for automated detection system of single nucleotide polymorphisms. <i>Biotechnology and Bioengineering</i> , 2006, 94, 862-868.	1.7	53
137	Oligonucleotide-arrayed TFT photosensor applicable for DNA chip technology. <i>Biotechnology and Bioengineering</i> , 2006, 95, 22-28.	1.7	21
138	Electrochemical probe for on-chip type flow immunoassay: Immunoglobulin G labeled with ferrocenecarbaldehyde. <i>Biotechnology and Bioengineering</i> , 2005, 90, 14-19.	1.7	33
139	Fabrication of amino silane-coated microchip for DNA extraction from whole blood. <i>Journal of Biotechnology</i> , 2005, 116, 105-111.	1.9	125
140	Novel detection system for biomolecules using nano-sized bacterial magnetic particles and magnetic force microscopy. <i>Journal of Biotechnology</i> , 2005, 120, 308-314.	1.9	66
141	Single nucleotide polymorphism detection in aldehyde dehydrogenase 2 (ALDH2) gene using bacterial magnetic particles based on dissociation curve analysis. <i>Biotechnology and Bioengineering</i> , 2004, 87, 687-694.	1.7	46
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