

Tadashi Matsunaga

List of Publications by Year in descending order

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445
papers

17,707
citations

14655

66
h-index

24258

110
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457
all docs

457
docs citations

457
times ranked

12492
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.	2.2	2
2	Transcriptomic profiling of single circulating tumor cells provides insight into human metastatic gastric cancer. <i>Communications Biology</i> , 2022, 5, 20.	4.4	20
3	Adsorption of Biomaterialization Protein Mms6 on Magnetite (Fe ₃ O ₄) Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5554.	4.1	4
4	Amplification-free detection of bacterial genes using a signaling probe-based DNA microarray. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113659.	10.1	9
5	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
6	Restoration and Modification of Magnetosome Biosynthesis by Internal Gene Acquisition in a Magnetotactic Bacterium. <i>Biotechnology Journal</i> , 2020, 15, e2000278.	3.5	5
7	Rapid discrimination of fungal species by the colony fingerprinting. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111747.	10.1	7
8	Gel-based cell manipulation method for isolation and genotyping of single-adherent cells. <i>Analyst, The</i> , 2019, 144, 990-996.	3.5	9
9	Colony Fingerprinting – A Novel Method for Discrimination of Food-Contaminating Microorganisms Based on Bioimage Informatics. , 2019, , .		2
10	Biosynthesis of Thermoresponsive Magnetic Nanoparticles by Magnetosome Display System. <i>Bioconjugate Chemistry</i> , 2018, 29, 1756-1762.	3.6	9
11	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 50, 111-120.	6.6	131
12	Colony Fingerprint-Based Discrimination of Staphylococcus species with Machine Learning Approaches. <i>Sensors</i> , 2018, 18, 2789.	3.8	11
13	Bioengineering and Biotechnological Applications of Bacterial Magnetic Particles. , 2018, , 77-93.		0
14	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
15	Enhanced Tubulation of Liposome Containing Cardiolipin by MamY Protein from Magnetotactic Bacteria. <i>Biotechnology Journal</i> , 2018, 13, 1800087.	3.5	12
16	Molecular Mechanism of Magnetic Crystal Formation in Magnetotactic Bacteria. , 2018, , 23-51.		3
17	Evaluation of cancer cell deformability by microcavity array. <i>Analytical Biochemistry</i> , 2017, 520, 16-21.	2.4	9
18	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

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19	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
20	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
21	Enhancement of Biomass and Lipid Productivities of Water Surface-Floating Microalgae by Chemical Mutagenesis. <i>Marine Drugs</i> , 2017, 15, 151.	4.6	17
22	Colony fingerprint for discrimination of microbial species based on lensless imaging of microcolonies. <i>PLoS ONE</i> , 2017, 12, e0174723.	2.5	14
23	Quantitative and time-course analysis of microbial degradation of 1H,1H,2H,2H,8H,8H-perfluorododecanol in activated sludge. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 8259-8266.	3.6	2
24	Core Amino Acid Residues in the Morphology-Regulating Protein, Mms6, for Intracellular Magnetite Biomineralization. <i>Scientific Reports</i> , 2016, 6, 35670.	3.3	20
25	Bacterial Inactivation by Applying an Alternating Electromagnetic Field Using PAMAM Dendron-modified Magnetic Nanoparticles. <i>Electrochemistry</i> , 2016, 84, 324-327.	1.4	5
26	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3886-3891.	3.1	34
27	Towards single-cell genome analysis of circulating tumor cells based on microcavity array. , 2016, , .		0
28	Comparative Subcellular Localization Analysis of Magnetosome Proteins Reveals a Unique Localization Behavior of Mms6 Protein onto Magnetite Crystals. <i>Journal of Bacteriology</i> , 2016, 198, 2794-2802.	2.2	26
29	Control of magnetite nanocrystal morphology in magnetotactic bacteria by regulation of mms7 gene expression. <i>Scientific Reports</i> , 2016, 6, 29785.	3.3	28
30	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
31	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
32	ζ -potential of electrochromic polymer-coated magnetic nanoparticles. <i>Electrochemistry</i> , 2016, 84, 743-746.	1.4	1
33	Evaluation of a Microbial Sensor as a Tool for Antimicrobial Activity Test of Cosmetic Preservatives. <i>Biocontrol Science</i> , 2015, 20, 247-253.	0.8	2
34	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
35	Development of the automated circulating tumor cell recovery system with microcavity array. <i>Biosensors and Bioelectronics</i> , 2015, 67, 438-442.	10.1	22
36	Marine Microalgae. , 2015, , 51-63.		2

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37	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
38	Crystal Growth of Aspirin Using a Temperature-Controlled Microfluidic Device. <i>Crystal Growth and Design</i> , 2015, 15, 4549-4555.	3.0	5
39	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.	5.2	0
40	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
41	Capsid protein oxidation in feline calicivirus using an electrochemical inactivation treatment. <i>Journal of Hazardous Materials</i> , 2015, 283, 410-415.	12.4	14
42	Digital Cell Counting Device Integrated with a Single-Cell Array. <i>PLoS ONE</i> , 2014, 9, e89011.	2.5	15
43	Coordinated functions of Mms proteins define the surface structure of cubo-octahedral magnetite crystals in magnetotactic bacteria. <i>Molecular Microbiology</i> , 2014, 93, 554-567.	2.5	58
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	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
46	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
47	Establishment of a Genetic Transformation System for the Marine Pennate Diatom <i>Fistulifera</i> sp. Strain JPC DA0580: A High Triglyceride Producer. <i>Marine Biotechnology</i> , 2013, 15, 48-55.	2.4	71
48	Effect of transient occlusal loading on the threshold of tooth tactile sensation perception for tapping like the impulsive stimulation. <i>Odontology / the Society of the Nippon Dental University</i> , 2013, 101, 199-203.	1.9	6
49	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
50	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, <i>Fistulifera</i> sp. JPC DA0580. <i>Bioresource Technology</i> , 2013, 137, 132-138.	9.6	42
51	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
52	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
53	Glycosylceramides from marine green microalga <i>Tetraselmis</i> sp.. <i>Phytochemistry</i> , 2013, 85, 107-114.	2.9	16
54	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

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55	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
56	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
57	Biologically synthesized or bioinspired process-derived iron oxides as catalysts for living cationic polymerization of a vinyl ether. <i>Chemical Communications</i> , 2012, 48, 10904.	4.1	20
58	Efficient DNA release from PAMAM dendrimer-modified superparamagnetic nanoparticles for DNA recovery. <i>Polymer Journal</i> , 2012, 44, 672-677.	2.7	18
59	Proteomic analysis from the mineralized radular teeth of the giant Pacific chiton, <i>Cryptochiton stelleri</i> (<i>Mollusca</i>). <i>Proteomics</i> , 2012, 12, 2890-2894.	2.2	42
60	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
61	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
62	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. <i>Journal of Materials Chemistry</i> , 2012, 22, 11919.	6.7	40
63	Fabrication of Lipid Tubules with Embedded Quantum Dots by Membrane Tubulation Protein. <i>Small</i> , 2012, 8, 1590-1595.	10.0	15
64	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
65	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.	4.7	0
66	Effect of magnetite nanoparticles on living rate of MCF-7 human breast cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 95, 254-257.	5.0	30
67	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
68	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
69	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
70	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
71	Sensitivity of microcavity array system for circulating tumor cells in lung cancer patients.. <i>Journal of Clinical Oncology</i> , 2012, 30, e21007-e21007.	1.6	0
72	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

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73	<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.	1.7	63
74	Microfluidic Device with Chemical Gradient for Single-Cell Cytotoxicity Assays. <i>Analytical Chemistry</i> , 2011, 83, 3648-3654.	6.5	48
75	High-throughput pyrosequencing of the chloroplast genome of a highly neutral-lipid-producing marine pennate diatom, <i>Fistulifera</i> sp. strain JPC DA0580. <i>Photosynthesis Research</i> , 2011, 109, 223-229.	2.9	36
76	Investigation on Natural Diets of Larval Marine Animals Using Peptide Nucleic Acid-Directed Polymerase Chain Reaction Clamping. <i>Marine Biotechnology</i> , 2011, 13, 305-313.	2.4	46
77	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
78	MMS6 Protein Regulates Crystal Morphology during Nano-sized Magnetite Biomineralization in Vivo. <i>Journal of Biological Chemistry</i> , 2011, 286, 6386-6392.	3.4	155
79	Structure and Function of Small Heat Shock Proteins from the Magnetotactic Bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>Kobunshi Ronbunshu</i> , 2010, 67, 698-704.	0.2	1
80	Microbial biodegradation of a novel fluorotelomer alcohol, 1H,1H,2H,2H,8H,8H-perfluorododecanol, yields short fluorinated acids. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 1193-1203.	3.6	18
81	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
82	Isolation and Characterization of a GDSL Esterase from the Metagenome of a Marine Sponge-associated Bacteria. <i>Marine Biotechnology</i> , 2010, 12, 395-402.	2.4	50
83	Marine Diatom, <i>Navicula</i> sp. Strain JPC 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.	2.9	67
84	Three-dimensional Directed Self-assembly of Peptide Nanowires into Micrometer-sized Crystalline Cubes with Nanoparticle Joints. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8375-8378.	13.8	27
85	TCR α repertoire analysis of antigen-specific single T cells using a high-density microcavity array. <i>Biotechnology and Bioengineering</i> , 2010, 106, 311-318.	3.3	9
86	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
87	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
88	Identification and functional characterization of liposome tubulation protein from magnetotactic bacteria. <i>Molecular Microbiology</i> , 2010, 76, 480-488.	2.5	49
89	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
90	Electrochemical and Magnetic Technologies for Bio Applications. <i>Nanostructure Science and Technology</i> , 2010, , 151-167.	0.1	0

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91	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
92	Preparation of Genomic DNA from a Single Species of Uncultured Magnetotactic Bacterium by Multiple-Displacement Amplification. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1480-1485.	3.1	28
93	Bioengineering of Bacterial Magnetic Particles and their Applications in Biotechnology. <i>Recent Patents on Biotechnology</i> , 2010, 4, 214-225.	0.8	18
94	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2010, 82, 6629-6635.	6.5	309
95	Simultaneously Discrete Biomineralization of Magnetite and Tellurium Nanocrystals in Magnetotactic Bacteria. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5526-5532.	3.1	42
96	Single-cell detection using a thin film transistor photosensor with micro-partitions. <i>Lab on A Chip</i> , 2010, 10, 3348.	6.0	11
97	Construction of an Electrochemical Antibiofouling System for Plate Heat Exchangers. <i>Journal of Chemical Engineering of Japan</i> , 2010, 43, 608-611.	0.6	2
98	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
99	Iron oxide crystal formation on a substrate modified with the Mms6 protein from magnetotactic bacteria. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1187, 46.	0.1	10
100	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
101	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.	2.2	0
102	Development of single template amplification and product immobilization with single bead trap array. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S150.	2.2	0
103	A single-cell based biosensing device directed for lipophilic chemical screening and evaluation. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S150-S151.	2.2	0
104	Microbial electrode BOD Sensors. <i>Biotechnology and Bioengineering</i> , 2009, 102, 659-672.	3.3	5
105	Nano-sized bacterial magnetic particles displaying pyruvate phosphate dikinase for pyrosequencing. <i>Biotechnology and Bioengineering</i> , 2009, 103, 130-137.	3.3	15
106	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
107	Characterization of marine microalga, <i>Scenedesmus</i> sp. strain JPCC GA0024 toward biofuel production. <i>Biotechnology Letters</i> , 2009, 31, 1367-1372.	2.2	65
108	Proteomic analysis of irregular, bullet-shaped magnetosomes in the sulphate-reducing magnetotactic bacterium <i>Desulfovibrio magneticus</i> . <i>Proteomics</i> , 2009, 9, 3341-3352.	2.2	32

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109	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
110	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
111	High-Density Microcavity Array for Cell Detection: Single-Cell Analysis of Hematopoietic Stem Cells in Peripheral Blood Mononuclear Cells. <i>Analytical Chemistry</i> , 2009, 81, 5308-5313.	6.5	74
112	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
113	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
114	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
115	Contributions of Phosphate to DNA Adsorption/Desorption Behaviors on Aminosilane-Modified Magnetic Nanoparticles. <i>Langmuir</i> , 2009, 25, 2956-2961.	3.5	103
116	Whole genome sequence of <i>Desulfovibrio magneticus</i> strain RS-1 revealed common gene clusters in magnetotactic bacteria. <i>Genome Research</i> , 2009, 19, 1801-1808.	5.5	103
117	3SP5-03 Development of functionalized magnetic nanobeads based on fundamental biomineralization studies(3SP5 Development of dynamic molecular systems sharing the characteristics with living) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
118	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
119	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
120	Novel method for evaluation of chemicals based on ligand-dependent recruitment of GFP labeled coactivator to estrogen receptor displayed on bacterial magnetic particles. <i>Analytica Chimica Acta</i> , 2008, 626, 71-77.	5.4	15
121	Formation of magnetite by bacteria and its application. <i>Journal of the Royal Society Interface</i> , 2008, 5, 977-999.	3.4	218
122	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
123	Development and application of a stable HeLa cell line capable of site-specific transgenesis using the Cre-lox system: Establishment and application of a stable TNFR1 knockdown cell line to cytotoxicity assay. <i>Toxicology in Vitro</i> , 2008, 22, 1077-1087.	2.4	5
124	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.	6.5	57
125	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
126	One-step separation of CD20+ cells from whole blood using bacterial magnetic particles displaying protein G. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1094, 1.	0.1	0

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127	Site-selective immobilization of streptavidin on enzymatically biotinylated bacterial magnetic particles. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1094, 1.	0.1	0
128	Development of a Cell Surface Display System in a Magnetotactic Bacterium, <i>Magnetospirillum magneticum</i> AMB-1. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3342-3348.	3.1	22
129	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
130	Fabrication of Genetic Diagnostic Chip using DNA-arrayed TFT Photosensor. <i>Electrochemistry</i> , 2008, 76, 573-575.	1.4	4
131	Cellular Responses to Electrochemical Killing Process by Applying a Constant Potential in Synchronously Cultured <i>Saccharomyces Cerevisiae</i> . <i>Electrochemistry</i> , 2008, 76, 603-605.	1.4	1
132	“ <i>Surface Finishing of Magnetically Modified Particles</i> ”. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2008, 50, 377-381.		
133	Quantitative Detection of Immunoreaction using Magnetite Nanoparticles and Raman Scattering Spectroscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008, 6, 142-146.	0.4	2
134	Detection of <i>Cryptosporidium parvum</i> oocysts using a microfluidic device equipped with the SUS micromesh and FITC-labeled antibody. <i>Biotechnology and Bioengineering</i> , 2007, 96, 272-280.	3.3	33
135	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
136	Detection of epidermal growth factor receptor (EGFR) mutations in non-small cell lung cancer (NSCLC) using a fully automated system with a nano-scale engineered biomagnetite. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2282-2288.	10.1	17
137	Determination of microsatellite repeats in the human thyroid peroxidase (TPOX) gene using an automated gene analysis system with nanoscale engineered biomagnetite. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2276-2281.	10.1	8
138	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
139	Cytoplasmic ATPase involved in ferrous ion uptake from magnetotactic bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>FEBS Letters</i> , 2007, 581, 3443-3448.	2.8	16
140	Molecular analysis of magnetotactic bacteria and development of functional bacterial magnetic particles for nano-biotechnology. <i>Trends in Biotechnology</i> , 2007, 25, 182-188.	9.3	115
141	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
142	High-throughput SNP detection using nano-scale engineered biomagnetite. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2315-2321.	10.1	29
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