Tadashi Matsunaga

List of Publications by Year
in descending order

445	17,707	14655 66	24258 110
papers	citations	h-index	g-index

457	457	457	12492
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoelectrochemical sterilization of microbial cells by semiconductor powders. FEMS Microbiology Letters, 1985, 29, 211-214.	1.8	1,280
2	Continuous-sterilization system that uses photosemiconductor powders. Applied and Environmental Microbiology, 1988, 54, 1330-1333.	3.1	350
3	A Novel Protein Tightly Bound to Bacterial Magnetic Particles in Magnetospirillum magneticum Strain AMB-1. Journal of Biological Chemistry, 2003, 278, 8745-8750.	3.4	342
4	Microbial electrode BOD sensors. Biotechnology and Bioengineering, 1977, 19, 1535-1547.	3.3	335
5	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. Analytical Chemistry, 2010, 82, 6629-6635.	6.5	309
6	Magnetite formation by a magnetic bacterium capable of growing aerobically. Applied Microbiology and Biotechnology, 1991, 35, 651.	3.6	276
7	Fully Automated Chemiluminescence Immunoassay of Insulin Using Antibodyâˆ'Protein Aâˆ'Bacterial Magnetic Particle Complexes. Analytical Chemistry, 2000, 72, 3518-3522.	6.5	246
8	Controlled formation of magnetite crystal by partial oxidation of ferrous hydroxide in the presence of recombinant magnetotactic bacterial protein Mms6. Biomaterials, 2007, 28, 5381-5389.	11.4	241
9	Magnetite formation by a sulphate-reducing bacterium. Nature, 1993, 365, 47-49.	27.8	236
10	Complete Genome Sequence of the Facultative Anaerobic Magnetotactic Bacterium Magnetospirillum sp. strain AMB-1. DNA Research, 2005, 12, 157-166.	3.4	225
11	Formation of magnetite by bacteria and its application. Journal of the Royal Society Interface, 2008, 5, 977-999.	3.4	218
12	Synthesis of magnetic nanoparticles and their application to bioassays. Analytical and Bioanalytical Chemistry, 2006, 384, 593-600.	3.7	166
13	Continous hydrogen production by immobilized whole cells of Clostridium butyricum. Biochimica Et Biophysica Acta - General Subjects, 1976, 444, 338-343.	2.4	164
14	Use of magnetic particles isolated from magnetotactic bacteria for enzyme immobilization. Applied Microbiology and Biotechnology, 1987, 26, 328.	3.6	163
15	MMS6 Protein Regulates Crystal Morphology during Nano-sized Magnetite Biomineralization in Vivo. Journal of Biological Chemistry, 2011, 286, 6386-6392.	3.4	155
16	Desulfovibrio magneticus sp. nov., a novel sulfate-reducing bacterium that produces intracellular single-domain-sized magnetite particles.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 215-221.	1.7	152
17	Size-Based Isolation of Circulating Tumor Cells in Lung Cancer Patients Using a Microcavity Array System. PLoS ONE, 2013, 8, e67466.	2.5	151
18	Magnetic Cell Separation Using Antibody Binding with Protein A Expressed on Bacterial Magnetic Particles. Analytical Chemistry, 2004, 76, 6207-6213.	6.5	147

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19	Effects of growth medium composition, iron sources and atmospheric oxygen concentrations on production of luciferase-bacterial magnetic particle complex by a recombinant Magnetospirillum magneticum AMB-1. Enzyme and Microbial Technology, 2001, 29, 13-19.	3.2	141
20	Immunoassay method for the determination of immunoglobulin G using bacterial magnetic particles. Analytical Chemistry, 1991, 63, 268-272.	6.5	136
21	Origin of magnetosome membrane: Proteomic analysis of magnetosome membrane and comparison with cytoplasmic membrane. Proteomics, 2006, 6, 5234-5247.	2.2	136
22	An Iron-regulated Gene, magA, Encoding an Iron Transport Protein of Magnetospirillum sp. Strain AMB-1. Journal of Biological Chemistry, 1995, 270, 28392-28396.	3.4	134
23	Marine microalgae for production of biofuels and chemicals. Current Opinion in Biotechnology, 2018, 50, 111-120.	6.6	131
24	TiO2-Mediated Photochemical Disinfection of Escherichia coli Using Optical Fibers. Environmental Science & Technology, 1995, 29, 501-505.	10.0	126
25	Fabrication of amino silane-coated microchip for DNA extraction from whole blood. Journal of Biotechnology, 2005, 116, 105-111.	3.8	125
26	Control of the morphology and size of magnetite particles with peptides mimicking the Mms6 protein from magnetotactic bacteria. Journal of Colloid and Interface Science, 2010, 343, 65-70.	9.4	124
27	DNA extraction using modified bacterial magnetic particles in the presence of amino silane compound. Journal of Biotechnology, 2002, 94, 217-224.	3.8	121
28	Biochemical fuel cell utilizing immobilized cells of clostridium butyricum. Biotechnology and Bioengineering, 1977, 19, 1727-1733.	3.3	119
29	Screening of marine microalgae for bioremediation of cadmium-polluted seawater. Journal of Biotechnology, 1999, 70, 33-38.	3.8	116
30	Chemiluminescence Enzyme Immunoassay Using Bacterial Magnetic Particles. Analytical Chemistry, 1996, 68, 3551-3554.	6.5	115
31	Molecular analysis of magnetotactic bacteria and development of functional bacterial magnetic particles for nano-biotechnology. Trends in Biotechnology, 2007, 25, 182-188.	9.3	115
32	Investigation of the antiviral properties of copper iodide nanoparticles against feline calicivirus. Journal of Bioscience and Bioengineering, 2012, 113, 580-586.	2.2	113
33	DNA extraction using bacterial magnetic particles modified with hyperbranched polyamidoamine dendrimer. Journal of Biotechnology, 2003, 101, 219-228.	3.8	108
34	Detection and removal of Escherichia coli using fluorescein isothiocyanate conjugated monoclonal antibody immobilized on bacterial magnetic particles. Analytical Chemistry, 1993, 65, 2036-2039.	6.5	103
35	Contributions of Phosphate to DNA Adsorption/Desorption Behaviors on Aminosilane-Modified Magnetic Nanoparticles. Langmuir, 2009, 25, 2956-2961.	3.5	103
36	Whole genome sequence of Desulfovibrio magneticus strain RS-1 revealed common gene clusters in magnetotactic bacteria. Genome Research, 2009, 19, 1801-1808.	5.5	103

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37	Production of antioxidant vitamins, Î²-carotene, vitamin C, and vitamin E, by two-step culture ofEuglena gracilis Z. , 1997, 53, 185-190.		99
38	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
39	Disinfection of drinking water by using a novel electrochemical reactor employing carbon-cloth electrodes. Applied and Environmental Microbiology, 1992, 58, 686-689.	3.1	98
40	Detection of microbial cells by cyclic voltammetry. Analytical Chemistry, 1984, 56, 798-801.	6.5	97
41	Glutamate production from CO2 by Marine CyanobacteriumSynechococcus sp.. Applied Biochemistry and Biotechnology, 1991, 28-29, 157-167.	2.9	95
42	Gene transfer in magnetic bacteria: transposon mutagenesis and cloning of genomic DNA fragments required for magnetosome synthesis. Journal of Bacteriology, 1992, 174, 2748-2753.	2.2	93
43	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
44	Iron-Regulated Expression and Membrane Localization of the MagA Protein in Magnetospirillum sp. Strain AMB-11. Journal of Biochemistry, 1995, 118, 23-27.	1.7	87
45	Dynamic analysis of a genomic island inMagnetospirillumsp. strain AMB-1 reveals how magnetosome synthesis developed. FEBS Letters, 2006, 580, 801-812.	2.8	87
46	Expression of the eicosapentaenoic acid synthesis gene cluster from Shewanella sp. in a transgenic marine cyanobacterium, Synechococcus sp.. Microbiology (United Kingdom), 1997, 143, 2725-2731.	1.8	86
47	Saccharification of Marine Microalgae Using Marine Bacteria for Ethanol Production. Applied Biochemistry and Biotechnology, 2003, 105, 247-254.	2.9	86
48	Use of silk fibroin for enzyme membrane. Journal of Biotechnology, 1987, 5, 199-207.	3.8	85
49	751â€"Electrochemical sterilization of microbial cells. Bioelectrochemistry, 1984, 13, 393-400.	1.0	83
50	Highly sensitive detection of allergen using bacterial magnetic particles. Analytica Chimica Acta, 1993, 281, 585-589.	5.4	82
51	Wholeâ€metagenome amplification of a microbial community associated with scleractinian coral by multiple displacement amplification using Ï•29 polymerase. Environmental Microbiology, 2006, 8, 1155-1163.	3.8	82
52	Chemiluminescence enzyme immunoassay using ProteinA-bacterial magnetite complex. Journal of Magnetism and Magnetic Materials, 1999, 194, 126-131.	2.3	80
53	Magnetic cell separation using nanoâ€sized bacterial magnetic particles with reconstructed magnetosome membrane. Biotechnology and Bioengineering, 2008, 101, 470-477.	3.3	79
54	Chlorophyll aâ€²/P-700 and pheophytin a/P-680 stoichiometries in higher plants and cyanobacteria determined by HPLC analysis. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 936, 81-89.	1.0	78

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55	Fully automated DNA extraction from blood using magnetic particles modified with a hyperbranched polyamidoamine dendrimer. Journal of Bioscience and Bioengineering, 2003, 95, 21-26.	2.2	78
56	Rapid and sensitive detection of 17Î²-estradiol in environmental water using automated immunoassay system with bacterial magnetic particles. Journal of Biotechnology, 2004, 108, 153-159.	3.8	78
57	An ultraviolet (UV-A) absorbing biopterin glucoside from the marine planktonic cyanobacterium Oscillatoria sp.. Applied Microbiology and Biotechnology, 1993, 39, 250.	3.6	77
58	Evolutionary relationships among Magnetospirillum strains inferred from phylogenetic analysis of 16S rDNA sequences. Journal of Bacteriology, 1993, 175, 6689-6694.	2.2	76
59	Rapid determination of nicotinic acid by immobilized lactobacillus arabinosus. Analytica Chimica Acta, 1978, 99, 233-239.	5.4	74
60	High-Density Microcavity Array for Cell Detection: Single-Cell Analysis of Hematopoietic Stem Cells in Peripheral Blood Mononuclear Cells. Analytical Chemistry, 2009, 81, 5308-5313.	6.5	74
61	Global Gene Expression Analysis of Iron-Inducible Genes in Magnetospirillum magneticum AMB-1. Journal of Bacteriology, 2006, 188, 2275-2279.	2.2	72
62	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
63	Applications of bacterial magnets. Trends in Biotechnology, 1991, 9, 91-95.	9.3	70
64	Production of eicosapentaenoic acid by a recombinant marine cyanobacterium, Synechococcus sp.. Lipids, 2000, 35, 1061-1064.	1.7	70
65	Biotechnological application of nano-scale engineered bacterial magnetic particles. Journal of Materials Chemistry, 2004, 14, 2099.	6.7	70
66	Microfabricated On-Chip-Type Electrochemical Flow Immunoassay System for the Detection of Histamine Released in Whole Blood Samples. Analytical Chemistry, 2003, 75, 3316-3321.	6.5	69
67	CO2 removal by high-density culture of a marine cyanobacterium synechococcus sp. using an improved photobioreactor employing light-diffusing optical fibers. Applied Biochemistry and Biotechnology, 1992, 34-35, 449-458.	2.9	68
68	Use of a Titanium Nitride for Electrochemical Inactivation of Marine Bacteria. Environmental Science & Technology, 1998, 32, 798-801.	10.0	68
69	Electrode System for the Determination of Microbial Populations. Applied and Environmental Microbiology, 1979, 37, 117-121.	3.1	68
70	Marine Diatom, Navicula sp. Strain JPCC DA0580 and Marine Green Alga, Chlorella sp. Strain NKG400014 as Potential Sources for Biodiesel Production. Applied Biochemistry and Biotechnology, 2010, 161, 483-490.	2.9	67
71	Novel detection system for biomolecules using nano-sized bacterial magnetic particles and magnetic force microscopy. Journal of Biotechnology, 2005, 120, 308-314.	3.8	66
72	Sulfated exopolysaccharide production by the halophilic cyanobacterium Aphanocapsa halophytia. Current Microbiology, 1995, 30, 219-222.	2.2	65

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73	Fully automated immunoassay system of endocrine disrupting chemicals using monoclonal antibodies chemically conjugated to bacterial magnetic particles. Analytica Chimica Acta, 2003, 475, 75-83.	5.4	65
74	Characterization of marine microalga, Scenedesmus sp. strain JPCC GA0024 toward biofuel production. Biotechnology Letters, 2009, 31, 1367-1372.	2.2	65
75	Microbioassay of nystatin with a yeast electrode. Analytica Chimica Acta, 1979, 109, 39-44.	5.4	64
76	Preliminary screening of mutagens with a microbial sensor. Analytical Chemistry, 1981, 53, 1024-1026.	6.5	63
77	Mass culture of magnetic bacteria and their application to flow type immunoassays. IEEE Transactions on Magnetics, 1990, 26, 1557-1559.	2.1	63
78	Magnetic bacterial protein Mms6 controls morphology, crystallinity and magnetism of cobalt-doped magnetite nanoparticles in vitro. Journal of Materials Chemistry, 2011, 21, 15244.	6.7	63
79	Altererythrobacter ishigakiensis sp. nov., an astaxanthin-producing bacterium isolated from a marine sediment. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2956-2961.	1.7	63
80	Electrochemical Prevention of Marine Biofouling with a Carbon-Chloroprene Sheet. Applied and Environmental Microbiology, 1993, 59, 3757-3762.	3.1	63
81	Prevention of marine biofouling using a conductive paint electrode. , 1998, 59, 374-378.		62
82	Siderophore production by the magnetic bacteriumMagnetospirillum magneticumAMB-1. FEMS Microbiology Letters, 2003, 218, 371-375.	1.8	62
83	An optical fibre photobioreactor for enhanced production of the marine unicellular alga Isochrysis aff. galbana T-Iso (UTEX LB 2307) rich in docosahexaenoic acid. Applied Microbiology and Biotechnology, 1993, 39, 456-459.	3.6	61
84	Electrochemical disinfection of bacteria in drinking water using activated carbon fibers. Biotechnology and Bioengineering, 1994, 43, 429-433.	3.3	60
85	Development of a novel method for operating magnetic particles, Magtration Technology, and its use for automating nucleic acid purification. Journal of Bioscience and Bioengineering, 2001, 91, 500-503.	2.2	60
86	Single-nucleotide polymorphism analysis using fluorescence resonance energy transfer between DNA-labeling fluorophore, fluorescein isothiocyanate, and DNA intercalator, POPO-3, on bacterial magnetic particles. Biotechnology and Bioengineering, 2003, 84, 96-102.	3.3	60
87	Genes and proteins involved in bacterial magnetic particle formation. Trends in Microbiology, 2003, 11, 536-541.	7.7	60
88	Magnetic Nanotube Fabrication by Using Bacterial Magnetic Nanocrystals. Advanced Materials, 2005, 17, 1128-1131.	21.0	60
89	Salmonella electrode for screening mutagens. Analytical Chemistry, 1982, 54, 1725-1727.	6.5	58
90	A Magnetosome-specific GTPase from the Magnetic BacteriumMagnetospirillum magneticum AMB-1. Journal of Biological Chemistry, 2001, 276, 48183-48188.	3.4	58

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91	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
92	Coâ€ordinated functions of <scp>Mms</scp> proteins define the surface structure of cuboâ€octahedral magnetite crystals in magnetotactic bacteria. Molecular Microbiology, 2014, 93, 554-567.	2.5	58
93	Design and Application of a New Cryptic-Plasmid-Based Shuttle Vector for Magnetospirillum magneticum. Applied and Environmental Microbiology, 2003, 69, 4274-4277.	3.1	57
94	High-Efficiency Single-Cell Entrapment and Fluorescence in Situ Hybridization Analysis Using a Poly(dimethylsiloxane) Microfluidic Device Integrated with a Black Poly(ethylene terephthalate) Micromesh. Analytical Chemistry, 2008, 80, 5139-5145.	6.5	57
95	Conjugative gene transfer in marine cyanobacteria: Synechococcus sp., Synechocystis sp. and Pseudanabaena sp.. Applied Microbiology and Biotechnology, 1992, 37, 369-373.	3.6	56
96	A morphological classification of bacteria containing bullet-shaped magnetic particles. FEMS Microbiology Letters, 1994, 115, 169-176.	1.8	55
97	Hydrogen production from glucose by immobilized growing cells ofClostridium butyricum. European Journal of Applied Microbiology and Biotechnology, 1982, 16, 5-9.	1.3	54
98	Effects of intensity and quality of light on phycocyanin production by a marine cyanobacterium Synechococcus sp. NKBG 042902. Applied Microbiology and Biotechnology, 1995, 43, 1014-1018.	3.6	54
99	Construction of electrochemical flow immunoassay system using capillary columns and ferrocene conjugated immunoglobulin G for detection of human chorionic gonadotrophin. Biosensors and Bioelectronics, 2001, 16, 1063-1069.	10.1	54
100	Phylogenetic analysis of a novel sulfate-reducing magnetic bacterium, RS-1, demonstrates its membership of the ÃŽÂ´-Proteobacteria. FEMS Microbiology Letters, 1995, 126, 277-282.	1.8	53
101	Capture and release of DNA using aminosilane-modified bacterial magnetic particles for automated detection system of single nucleotide polymorphisms. Biotechnology and Bioengineering, 2006, 94, 862-868.	3.3	53
102	Molecular mechanism of magnet formation in bacteria. Journal of Bioscience and Bioengineering, 2000, 90, 1-13.	2.2	52
103	Cloning and Characterization of a Gene, mpsA, Encoding a Protein Associated with Intracellular Magnetic Particles from Magnetospirillum sp. Strain AMB-1. Biochemical and Biophysical Research Communications, 2000, 268, 932-937.	2.1	52
104	Phylogenetic relationships among Thunnus species inferred from rDNA ITS1 sequence. Journal of Fish Biology, 2006, 68, 24-35.	1.6	52
105	Application of bacterial magnetic particles for highly selective mRNA recovery system. Biotechnology Letters, 1993, 7, 688-694.	0.5	50
106	Isolation and Characterization of a GDSL Esterase from the Metagenome of a Marine Sponge-associated Bacteria. Marine Biotechnology, 2010, 12, 395-402.	2.4	50
107	Biochemical energy conversion using immobilized whole cells of Clostridium butyricum. Biochimie, 1980, 62, 353-358.	2.6	49
108	Biomagnetic nanoparticle formation and application. Supramolecular Science, 1998, 5, 391-394.	0.7	49

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109	Development of an electrochemical antifouling system for seawater cooling pipelines of power plants using titanium. Biotechnology and Bioengineering, 2006, 95, 468-473.	3.3	49
110	Identification and functional characterization of liposome tubulation protein from magnetotactic bacteria. Molecular Microbiology, 2010, 76, 480-488.	2.5	49
111	Fluorescent detection of cyanobacterial DNA using bacterial magnetic particles on a MAG-microarray. Biotechnology and Bioengineering, 2001, 73, 400-405.	3.3	48
112	Microfluidic Device with Chemical Gradient for Single-Cell Cytotoxicity Assays. Analytical Chemistry, 2011, 83, 3648-3654.	6.5	48
113	Dye-coupled electrode system for the rapid determination of cell populations in polluted water. Applied and Environmental Microbiology, 1982, 43, 814-818.	3.1	48
114	Amino-silane modified superparamagnetic particles with surface-immobilized enzyme. Journal of Colloid and Interface Science, 1991, 141, 505-511.	9.4	47
115	Detection of biomolecular interaction between biotin and streptavidin on a self-assembled monolayer using magnetic nanoparticles. Biotechnology and Bioengineering, 2004, 88, 543-546.	3.3	47
116	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
117	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
118	Single nucleotide polymorphism detection in aldehyde dehydrogenase 2 (ALDH2) gene using bacterial magnetic particles based on dissociation curve analysis. Biotechnology and Bioengineering, 2004, 87, 687-694.	3.3	46
119	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
120	Investigation on Natural Diets of Larval Marine Animals Using Peptide Nucleic Acid-Directed Polymerase Chain Reaction Clamping. Marine Biotechnology, 2011, 13, 305-313.	2.4	46
121	Electrochemical microbioassay of vitamin b1. Analytica Chimica Acta, 1978, 98, 25-30.	5.4	45
122	A specific microbial sensor for formic acid. European Journal of Applied Microbiology and Biotechnology, 1980, 10, 235-243.	1.3	43
123	TiN electrode reactor for disinfection of drinking water. Water Research, 2000, 34, 3117-3122.	11.3	43
124	Microfluidic device using chemiluminescence and a DNA-arrayed thin film transistor photosensor for single nucleotide polymorphism genotyping of PCR amplicons from whole blood. Lab on A Chip, 2009, 9, 1052.	6.0	43
125	Electrochemical determination of cell populations. European Journal of Applied Microbiology and Biotechnology, 1980, 10, 125-132.	1.3	42
126	Microbioassay of phenylalanine in blood sera with a lactate electrode. Analytica Chimica Acta, 1980, 119, 271-276.	5.4	42

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127	Extracts of Marine cyanobacteria stimulated somatic embryogenesis of Daucus carota L.. Plant Cell Reports, 1991, 9, 655-658.	5.6	42
128	Simultaneously Discrete Biomineralization of Magnetite and Tellurium Nanocrystals in Magnetotactic Bacteria. Applied and Environmental Microbiology, 2010, 76, 5526-5532.	3.1	42
129	Proteomic analysis from the mineralized radular teeth of the giant <scp>P</scp>acific chiton, <scp>C</scp>ryptochiton stelleri (<scp>M</scp>ollusca). Proteomics, 2012, 12, 2890-2894.	2.2	42
130	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
131	Phylogenetic analysis of a novel sulfate-reducing magnetic bacterium, RS-1, demonstrates its membership of the Î´-Proteobacteria. FEMS Microbiology Letters, 1995, 126, 277-282.	1.8	41
132	Extracellular reduction of selenite by a novel marine photosynthetic bacterium. Applied Microbiology and Biotechnology, 1997, 48, 367-372.	3.6	41
133	Development of efficient expression system for protein display on bacterial magnetic particles. Biochemical and Biophysical Research Communications, 2005, 338, 1678-1681.	2.1	41
134	Effect of ultraviolet-A (UV-A) light on growth, photosynthetic activity and production of biopterin glucoside by the marine UV-A resistant cyanobacterium Oscillatoria sp.. Biochimica Et Biophysica Acta - General Subjects, 1995, 1244, 165-168.	2.4	40
135	Two-Dimensional Analysis of Proteins Specific to the Bacterial Magnetic Particle Membrane from Magnetospirillum sp. AMB-1. Applied Biochemistry and Biotechnology, 2000, 84-86, 441-446.	2.9	40
136	Surface modification of magnetic nanoparticles using asparagines-serine polypeptide designed to control interactions with cell surfaces. Biomaterials, 2010, 31, 4952-4957.	11.4	40
137	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. Journal of Materials Chemistry, 2012, 22, 11919.	6.7	40
138	Enhancement of magnetic particle production by nitrate and succinate fed-batch culture of Magnetospirillum sp. AMB-1. Biotechnology Letters, 1996, 10, 495.	0.5	39
139	Microaerobic hydrogen production by photosynthetic bacteria in a double-phase photobioreactor. , 2000, 68, 647-651.		39
140	Methane production from wastewaters by immobilized methanogenic bacteria. Biotechnology and Bioengineering, 1980, 22, 847-857.	3.3	38
141	Some observations on immobilized hydrogen-producing bacteria: Behavior of hydrogen in gel membranes. Biotechnology and Bioengineering, 1980, 22, 2607-2615.	3.3	38
142	Direct Count of Bacteria Using Fluorescent Dyes: Application to Assessment of Electrochemical Disinfection. Analytical Chemistry, 1995, 67, 4487-4490.	6.5	38
143	Detection of HbA1c by boronate affinity immunoassay using bacterial magnetic particles. Biosensors and Bioelectronics, 2001, 16, 1089-1094.	10.1	38
144	Molecular Mechanism of Magnet Formation in Bacteria.. Journal of Bioscience and Bioengineering, 2000, 90, 1-13.	2.2	38

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145	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
146	Sulfated extracellular polysaccharide production by the halophilic cyanobacterium Aphanocapsa halophytia immobilized on light-diffusing optical fibers. Applied Microbiology and Biotechnology, 1996, 45, 24-27.	3.6	36
147	Cadmium Recovery by a Sulfate-Reducing Magnetotactic Bacterium, Desulfovibrio magneticus RS-1, Using Magnetic Separation. Applied Biochemistry and Biotechnology, 2002, 98-100, 833-840.	2.9	36
148	Electrochemical detection of HbA1c, a maker for diabetes, using a flow immunoassay system. Biosensors and Bioelectronics, 2007, 22, 2051-2056.	10.1	36
149	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
150	Promotion of plantlet formation from somatic embryos of carrot treated with a high molecular weight extract from a marine cyanobacterium. Plant Cell Reports, 1992, 11, 62-5.	5.6	35
151	SNP detection in transforming growth factor-Î²1 gene using bacterial magnetic particles. Biosensors and Bioelectronics, 2003, 18, 683-687.	10.1	35
152	PCR for direct detection of indigenous uncultured magnetic cocci in sediment and phylogenetic analysis of amplified 16S ribosomal DNA. Applied and Environmental Microbiology, 1995, 61, 495-500.	3.1	35
153	Phagocytosis of bacterial magnetite by leucocytes. Applied Microbiology and Biotechnology, 1989, 31, 401.	3.6	34
154	Enhanced germination of artificial seeds by marine cynobacterial extract. Applied Microbiology and Biotechnology, 1992, 36, 684.	3.6	34
155	Electrochemical sterilization of bacteria adsorbed on granular activated carbon. FEMS Microbiology Letters, 1992, 93, 255-259.	1.8	34
156	Application of bacterial magnetic particles as novel DNA carriers for ballistic transformation of a marine cyanobacterium. Biotechnology Letters, 1995, 9, 355-360.	0.5	34
157	Development and evaluation of an automated workstation for single nucleotide polymorphism discrimination using bacterial magnetic particles. Biosensors and Bioelectronics, 2003, 19, 325-330.	10.1	34
158	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
159	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. Applied and Environmental Microbiology, 2016, 82, 3886-3891.	3.1	34
160	A photochemical fuel cell system using Anabaena N-7363. European Journal of Applied Microbiology and Biotechnology, 1981, 12, 1-5.	1.3	33
161	Characterization of cryptic plasmids from marine cyanobacteria and construction of a hybrid plasmid potentially capable of transformation of marine cyanobacterium,Synechococcus sp., and its transformation. Applied Biochemistry and Biotechnology, 1990, 24-25, 151-160.	2.9	33
162	Phylogeny and 16s rRNA sequence of Magnetospirillum sp. AMB-1, an aerobic magnetic bacterium. Nucleic Acids Research, 1992, 20, 1140-1140.	14.5	33

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163	Electrochemical probe for on-chip type flow immunoassay: Immunoglobulin G labeled with ferrocenecarboaldehyde. Biotechnology and Bioengineering, 2005, 90, 14-19.	3.3	33
164	Detection ofCryptosporidium parvum oocysts using a microfluidic device equipped with the SUS micromesh and FITC-labeled antibody. Biotechnology and Bioengineering, 2007, 96, 272-280.	3.3	33
165	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
166	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
167	Electrochemical disinfection of drinking water using an activated-carbon-fiber reactor capable of monitoring its microbial fouling. Applied Microbiology and Biotechnology, 1997, 47, 18-22.	3.6	32
168	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
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