

Tadashi Matsunaga

List of Publications by Year in descending order

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444
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17,707
citations

14644

66
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24232

110
g-index

457
all docs

457
docs citations

457
times ranked

12492
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoelectrochemical sterilization of microbial cells by semiconductor powders. <i>FEMS Microbiology Letters</i> , 1985, 29, 211-214.	0.7	1,280
2	Continuous-sterilization system that uses photosemiconductor powders. <i>Applied and Environmental Microbiology</i> , 1988, 54, 1330-1333.	1.4	350
3	A Novel Protein Tightly Bound to Bacterial Magnetic Particles in <i>Magnetospirillum magneticum</i> Strain AMB-1. <i>Journal of Biological Chemistry</i> , 2003, 278, 8745-8750.	1.6	342
4	Microbial electrode BOD sensors. <i>Biotechnology and Bioengineering</i> , 1977, 19, 1535-1547.	1.7	335
5	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2010, 82, 6629-6635.	3.2	309
6	Magnetite formation by a magnetic bacterium capable of growing aerobically. <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 651.	1.7	276
7	Fully Automated Chemiluminescence Immunoassay of Insulin Using Antibody-Protein A-Bacterial Magnetic Particle Complexes. <i>Analytical Chemistry</i> , 2000, 72, 3518-3522.	3.2	246
8	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
9	Magnetite formation by a sulphate-reducing bacterium. <i>Nature</i> , 1993, 365, 47-49.	13.7	236
10	Complete Genome Sequence of the Facultative Anaerobic Magnetotactic Bacterium <i>Magnetospirillum</i> sp. strain AMB-1. <i>DNA Research</i> , 2005, 12, 157-166.	1.5	225
11	Formation of magnetite by bacteria and its application. <i>Journal of the Royal Society Interface</i> , 2008, 5, 977-999.	1.5	218
12	Synthesis of magnetic nanoparticles and their application to bioassays. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 593-600.	1.9	166
13	Continuous hydrogen production by immobilized whole cells of <i>Clostridium butyricum</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1976, 444, 338-343.	1.1	164
14	Use of magnetic particles isolated from magnetotactic bacteria for enzyme immobilization. <i>Applied Microbiology and Biotechnology</i> , 1987, 26, 328.	1.7	163
15	MMS6 Protein Regulates Crystal Morphology during Nano-sized Magnetite Biomineralization in Vivo. <i>Journal of Biological Chemistry</i> , 2011, 286, 6386-6392.	1.6	155
16	<i>Desulfovibrio magneticus</i> sp. nov., a novel sulfate-reducing bacterium that produces intracellular single-domain-sized magnetite particles. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 215-221.	0.8	152
17	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
18	Magnetic Cell Separation Using Antibody Binding with Protein A Expressed on Bacterial Magnetic Particles. <i>Analytical Chemistry</i> , 2004, 76, 6207-6213.	3.2	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 <i>Magnetospirillum magneticum</i> AMB-1. <i>Enzyme and Microbial Technology</i> , 2001, 29, 13-19.	1.6	141
20	Immunoassay method for the determination of immunoglobulin G using bacterial magnetic particles. <i>Analytical Chemistry</i> , 1991, 63, 268-272.	3.2	136
21	Origin of magnetosome membrane: Proteomic analysis of magnetosome membrane and comparison with cytoplasmic membrane. <i>Proteomics</i> , 2006, 6, 5234-5247.	1.3	136
22	An Iron-regulated Gene, <i>magA</i> , Encoding an Iron Transport Protein of <i>Magnetospirillum</i> sp. Strain AMB-1. <i>Journal of Biological Chemistry</i> , 1995, 270, 28392-28396.	1.6	134
23	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 50, 111-120.	3.3	131
24	TiO ₂ -Mediated Photochemical Disinfection of <i>Escherichia coli</i> Using Optical Fibers. <i>Environmental Science & Technology</i> , 1995, 29, 501-505.	4.6	126
25	Fabrication of amino silane-coated microchip for DNA extraction from whole blood. <i>Journal of Biotechnology</i> , 2005, 116, 105-111.	1.9	125
26	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
27	DNA extraction using modified bacterial magnetic particles in the presence of amino silane compound. <i>Journal of Biotechnology</i> , 2002, 94, 217-224.	1.9	121
28	Biochemical fuel cell utilizing immobilized cells of <i>Clostridium butyricum</i> . <i>Biotechnology and Bioengineering</i> , 1977, 19, 1727-1733.	1.7	119
29	Screening of marine microalgae for bioremediation of cadmium-polluted seawater. <i>Journal of Biotechnology</i> , 1999, 70, 33-38.	1.9	116
30	Chemiluminescence Enzyme Immunoassay Using Bacterial Magnetic Particles. <i>Analytical Chemistry</i> , 1996, 68, 3551-3554.	3.2	115
31	Molecular analysis of magnetotactic bacteria and development of functional bacterial magnetic particles for nano-biotechnology. <i>Trends in Biotechnology</i> , 2007, 25, 182-188.	4.9	115
32	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
33	DNA extraction using bacterial magnetic particles modified with hyperbranched polyamidoamine dendrimer. <i>Journal of Biotechnology</i> , 2003, 101, 219-228.	1.9	108
34	Detection and removal of <i>Escherichia coli</i> using fluorescein isothiocyanate conjugated monoclonal antibody immobilized on bacterial magnetic particles. <i>Analytical Chemistry</i> , 1993, 65, 2036-2039.	3.2	103
35	Contributions of Phosphate to DNA Adsorption/Desorption Behaviors on Aminosilane-Modified Magnetic Nanoparticles. <i>Langmuir</i> , 2009, 25, 2956-2961.	1.6	103
36	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.	2.4	103

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37	Production of antioxidant vitamins, β -carotene, vitamin C, and vitamin E, by two-step culture of <i>Euglena gracilis</i> 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. <i>Applied and Environmental Microbiology</i> , 2006, 72, 465-471.	1.4	98
39	Disinfection of drinking water by using a novel electrochemical reactor employing carbon-cloth electrodes. <i>Applied and Environmental Microbiology</i> , 1992, 58, 686-689.	1.4	98
40	Detection of microbial cells by cyclic voltammetry. <i>Analytical Chemistry</i> , 1984, 56, 798-801.	3.2	97
41	Glutamate production from CO ₂ by Marine Cyanobacterium <i>Synechococcus</i> sp.. <i>Applied Biochemistry and Biotechnology</i> , 1991, 28-29, 157-167.	1.4	95
42	Gene transfer in magnetic bacteria: transposon mutagenesis and cloning of genomic DNA fragments required for magnetosome synthesis. <i>Journal of Bacteriology</i> , 1992, 174, 2748-2753.	1.0	93
43	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
44	Iron-Regulated Expression and Membrane Localization of the MagA Protein in <i>Magnetospirillum</i> sp. Strain AMB-11. <i>Journal of Biochemistry</i> , 1995, 118, 23-27.	0.9	87
45	Dynamic analysis of a genomic island in <i>Magnetospirillum</i> sp. strain AMB-1 reveals how magnetosome synthesis developed. <i>FEBS Letters</i> , 2006, 580, 801-812.	1.3	87
46	Expression of the eicosapentaenoic acid synthesis gene cluster from <i>Shewanella</i> sp. in a transgenic marine cyanobacterium, <i>Synechococcus</i> sp.. <i>Microbiology (United Kingdom)</i> , 1997, 143, 2725-2731.	0.7	86
47	Saccharification of Marine Microalgae Using Marine Bacteria for Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2003, 105, 247-254.	1.4	86
48	Use of silk fibroin for enzyme membrane. <i>Journal of Biotechnology</i> , 1987, 5, 199-207.	1.9	85
49	Electrochemical sterilization of microbial cells. <i>Bioelectrochemistry</i> , 1984, 13, 393-400.	1.0	83
50	Highly sensitive detection of allergen using bacterial magnetic particles. <i>Analytica Chimica Acta</i> , 1993, 281, 585-589.	2.6	82
51	Whole-metagenome amplification of a microbial community associated with scleractinian coral by multiple displacement amplification using phi29 polymerase. <i>Environmental Microbiology</i> , 2006, 8, 1155-1163.	1.8	82
52	Chemiluminescence enzyme immunoassay using ProteinA-bacterial magnetite complex. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 194, 126-131.	1.0	80
53	Magnetic cell separation using nano-sized bacterial magnetic particles with reconstructed magnetosome membrane. <i>Biotechnology and Bioengineering</i> , 2008, 101, 470-477.	1.7	79
54	Chlorophyll <i>a</i> /P-700 and pheophytin <i>a</i> /P-680 stoichiometries in higher plants and cyanobacteria determined by HPLC analysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 936, 81-89.	0.5	78

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55	Fully automated DNA extraction from blood using magnetic particles modified with a hyperbranched polyamidoamine dendrimer. <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 21-26.	1.1	78
56	Rapid and sensitive detection of 17 β -estradiol in environmental water using automated immunoassay system with bacterial magnetic particles. <i>Journal of Biotechnology</i> , 2004, 108, 153-159.	1.9	78
57	An ultraviolet (UV-A) absorbing biopterin glucoside from the marine planktonic cyanobacterium <i>Oscillatoria</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 1993, 39, 250.	1.7	77
58	Evolutionary relationships among <i>Magnetospirillum</i> strains inferred from phylogenetic analysis of 16S rDNA sequences. <i>Journal of Bacteriology</i> , 1993, 175, 6689-6694.	1.0	76
59	Rapid determination of nicotinic acid by immobilized <i>Lactobacillus arabinosus</i> . <i>Analytica Chimica Acta</i> , 1978, 99, 233-239.	2.6	74
60	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.	3.2	74
61	Global Gene Expression Analysis of Iron-Inducible Genes in <i>Magnetospirillum magneticum</i> AMB-1. <i>Journal of Bacteriology</i> , 2006, 188, 2275-2279.	1.0	72
62	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
63	Applications of bacterial magnets. <i>Trends in Biotechnology</i> , 1991, 9, 91-95.	4.9	70
64	Production of eicosapentaenoic acid by a recombinant marine cyanobacterium, <i>Synechococcus</i> sp.. <i>Lipids</i> , 2000, 35, 1061-1064.	0.7	70
65	Biotechnological application of nano-scale engineered bacterial magnetic particles. <i>Journal of Materials Chemistry</i> , 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. <i>Analytical Chemistry</i> , 2003, 75, 3316-3321.	3.2	69
67	CO ₂ removal by high-density culture of a marine cyanobacterium <i>synechococcus</i> sp. using an improved photobioreactor employing light-diffusing optical fibers. <i>Applied Biochemistry and Biotechnology</i> , 1992, 34-35, 449-458.	1.4	68
68	Use of a Titanium Nitride for Electrochemical Inactivation of Marine Bacteria. <i>Environmental Science & Technology</i> , 1998, 32, 798-801.	4.6	68
69	Electrode System for the Determination of Microbial Populations. <i>Applied and Environmental Microbiology</i> , 1979, 37, 117-121.	1.4	68
70	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
71	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
72	Sulfated exopolysaccharide production by the halophilic cyanobacterium <i>Aphanocapsa halophytia</i> . <i>Current Microbiology</i> , 1995, 30, 219-222.	1.0	65

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73	Fully automated immunoassay system of endocrine disrupting chemicals using monoclonal antibodies chemically conjugated to bacterial magnetic particles. <i>Analytica Chimica Acta</i> , 2003, 475, 75-83.	2.6	65
74	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
75	Microbioassay of nystatin with a yeast electrode. <i>Analytica Chimica Acta</i> , 1979, 109, 39-44.	2.6	64
76	Preliminary screening of mutagens with a microbial sensor. <i>Analytical Chemistry</i> , 1981, 53, 1024-1026.	3.2	63
77	Mass culture of magnetic bacteria and their application to flow type immunoassays. <i>IEEE Transactions on Magnetics</i> , 1990, 26, 1557-1559.	1.2	63
78	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
79	<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
80	Electrochemical Prevention of Marine Biofouling with a Carbon-Chloroprene Sheet. <i>Applied and Environmental Microbiology</i> , 1993, 59, 3757-3762.	1.4	63
81	Prevention of marine biofouling using a conductive paint electrode. , 1998, 59, 374-378.		62
82	Siderophore production by the magnetic bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>FEMS Microbiology Letters</i> , 2003, 218, 371-375.	0.7	62
83	An optical fibre photobioreactor for enhanced production of the marine unicellular alga <i>Isochrysis aff. galbana</i> T-Iso (UTEX LB 2307) rich in docosahexaenoic acid. <i>Applied Microbiology and Biotechnology</i> , 1993, 39, 456-459.	1.7	61
84	Electrochemical disinfection of bacteria in drinking water using activated carbon fibers. <i>Biotechnology and Bioengineering</i> , 1994, 43, 429-433.	1.7	60
85	Development of a novel method for operating magnetic particles, Magtration Technology, and its use for automating nucleic acid purification. <i>Journal of Bioscience and Bioengineering</i> , 2001, 91, 500-503.	1.1	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. <i>Biotechnology and Bioengineering</i> , 2003, 84, 96-102.	1.7	60
87	Genes and proteins involved in bacterial magnetic particle formation. <i>Trends in Microbiology</i> , 2003, 11, 536-541.	3.5	60
88	Magnetic Nanotube Fabrication by Using Bacterial Magnetic Nanocrystals. <i>Advanced Materials</i> , 2005, 17, 1128-1131.	11.1	60
89	Salmonella electrode for screening mutagens. <i>Analytical Chemistry</i> , 1982, 54, 1725-1727.	3.2	58
90	A Magnetosome-specific GTPase from the Magnetic Bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 48183-48188.	1.6	58

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91	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.	1.4	58
92	Coordinated functions of <i>scp</i> Mms proteins define the surface structure of cubo-octahedral magnetite crystals in magnetotactic bacteria. <i>Molecular Microbiology</i> , 2014, 93, 554-567.	1.2	58
93	Design and Application of a New Cryptic-Plasmid-Based Shuttle Vector for <i>Magnetospirillum magneticum</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 4274-4277.	1.4	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. <i>Analytical Chemistry</i> , 2008, 80, 5139-5145.	3.2	57
95	Conjugative gene transfer in marine cyanobacteria: <i>Synechococcus</i> sp., <i>Synechocystis</i> sp. and <i>Pseudanabaena</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 1992, 37, 369-373.	1.7	56
96	A morphological classification of bacteria containing bullet-shaped magnetic particles. <i>FEMS Microbiology Letters</i> , 1994, 115, 169-176.	0.7	55
97	Hydrogen production from glucose by immobilized growing cells of <i>Clostridium butyricum</i> . <i>European Journal of Applied Microbiology and Biotechnology</i> , 1982, 16, 5-9.	1.3	54
98	Effects of intensity and quality of light on phycocyanin production by a marine cyanobacterium <i>Synechococcus</i> sp. NKBG 042902. <i>Applied Microbiology and Biotechnology</i> , 1995, 43, 1014-1018.	1.7	54
99	Construction of electrochemical flow immunoassay system using capillary columns and ferrocene conjugated immunoglobulin G for detection of human chorionic gonadotrophin. <i>Biosensors and Bioelectronics</i> , 2001, 16, 1063-1069.	5.3	54
100	Phylogenetic analysis of a novel sulfate-reducing magnetic bacterium, RS-1, demonstrates its membership of the γ -Proteobacteria. <i>FEMS Microbiology Letters</i> , 1995, 126, 277-282.	0.7	53
101	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
102	Molecular mechanism of magnet formation in bacteria. <i>Journal of Bioscience and Bioengineering</i> , 2000, 90, 1-13.	1.1	52
103	Cloning and Characterization of a Gene, <i>mgsA</i> , Encoding a Protein Associated with Intracellular Magnetic Particles from <i>Magnetospirillum</i> sp. Strain AMB-1. <i>Biochemical and Biophysical Research Communications</i> , 2000, 268, 932-937.	1.0	52
104	Phylogenetic relationships among <i>Thunnus</i> species inferred from rDNA ITS1 sequence. <i>Journal of Fish Biology</i> , 2006, 68, 24-35.	0.7	52
105	Application of bacterial magnetic particles for highly selective mRNA recovery system. <i>Biotechnology Letters</i> , 1993, 7, 688-694.	0.5	50
106	Isolation and Characterization of a GDSL Esterase from the Metagenome of a Marine Sponge-associated Bacteria. <i>Marine Biotechnology</i> , 2010, 12, 395-402.	1.1	50
107	Biochemical energy conversion using immobilized whole cells of <i>Clostridium butyricum</i> . <i>Biochimie</i> , 1980, 62, 353-358.	1.3	49
108	Biomagnetic nanoparticle formation and application. <i>Supramolecular Science</i> , 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. <i>Biotechnology and Bioengineering</i> , 2006, 95, 468-473.	1.7	49
110	Identification and functional characterization of liposome tubulation protein from magnetotactic bacteria. <i>Molecular Microbiology</i> , 2010, 76, 480-488.	1.2	49
111	Fluorescent detection of cyanobacterial DNA using bacterial magnetic particles on a MAG-microarray. <i>Biotechnology and Bioengineering</i> , 2001, 73, 400-405.	1.7	48
112	Microfluidic Device with Chemical Gradient for Single-Cell Cytotoxicity Assays. <i>Analytical Chemistry</i> , 2011, 83, 3648-3654.	3.2	48
113	Dye-coupled electrode system for the rapid determination of cell populations in polluted water. <i>Applied and Environmental Microbiology</i> , 1982, 43, 814-818.	1.4	48
114	Amino-silane modified superparamagnetic particles with surface-immobilized enzyme. <i>Journal of Colloid and Interface Science</i> , 1991, 141, 505-511.	5.0	47
115	Detection of biomolecular interaction between biotin and streptavidin on a self-assembled monolayer using magnetic nanoparticles. <i>Biotechnology and Bioengineering</i> , 2004, 88, 543-546.	1.7	47
116	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.	2.6	47
117	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.	1.0	47
118	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
119	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.	2.6	46
120	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.	1.1	46
121	Electrochemical microbioassay of vitamin b1. <i>Analytica Chimica Acta</i> , 1978, 98, 25-30.	2.6	45
122	A specific microbial sensor for formic acid. <i>European Journal of Applied Microbiology and Biotechnology</i> , 1980, 10, 235-243.	1.3	43
123	TiN electrode reactor for disinfection of drinking water. <i>Water Research</i> , 2000, 34, 3117-3122.	5.3	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. <i>Lab on A Chip</i> , 2009, 9, 1052.	3.1	43
125	Electrochemical determination of cell populations. <i>European Journal of Applied Microbiology and Biotechnology</i> , 1980, 10, 125-132.	1.3	42
126	Microbioassay of phenylalanine in blood sera with a lactate electrode. <i>Analytica Chimica Acta</i> , 1980, 119, 271-276.	2.6	42

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127	Extracts of Marine cyanobacteria stimulated somatic embryogenesis of <i>Daucus carota</i> L.. <i>Plant Cell Reports</i> , 1991, 9, 655-658.	2.8	42
128	Simultaneously Discrete Biomineralization of Magnetite and Tellurium Nanocrystals in Magnetotactic Bacteria. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5526-5532.	1.4	42
129	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.	1.3	42
130	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, <i>Fistulifera</i> sp. <i>JPCC DA0580. Bioresource Technology</i> , 2013, 137, 132-138.	4.8	42
131	Phylogenetic analysis of a novel sulfate-reducing magnetic bacterium, RS-1, demonstrates its membership of the ϵ -Proteobacteria. <i>FEMS Microbiology Letters</i> , 1995, 126, 277-282.	0.7	41
132	Extracellular reduction of selenite by a novel marine photosynthetic bacterium. <i>Applied Microbiology and Biotechnology</i> , 1997, 48, 367-372.	1.7	41
133	Development of efficient expression system for protein display on bacterial magnetic particles. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1678-1681.	1.0	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 <i>Oscillatoria</i> sp.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1995, 1244, 165-168.	1.1	40
135	Two-Dimensional Analysis of Proteins Specific to the Bacterial Magnetic Particle Membrane from <i>Magnetospirillum</i> sp. AMB-1. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 441-446.	1.4	40
136	Surface modification of magnetic nanoparticles using asparagines-serine polypeptide designed to control interactions with cell surfaces. <i>Biomaterials</i> , 2010, 31, 4952-4957.	5.7	40
137	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
138	Enhancement of magnetic particle production by nitrate and succinate fed-batch culture of <i>Magnetospirillum</i> sp. AMB-1. <i>Biotechnology Letters</i> , 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. <i>Biotechnology and Bioengineering</i> , 1980, 22, 847-857.	1.7	38
141	Some observations on immobilized hydrogen-producing bacteria: Behavior of hydrogen in gel membranes. <i>Biotechnology and Bioengineering</i> , 1980, 22, 2607-2615.	1.7	38
142	Direct Count of Bacteria Using Fluorescent Dyes: Application to Assessment of Electrochemical Disinfection. <i>Analytical Chemistry</i> , 1995, 67, 4487-4490.	3.2	38
143	Detection of HbA1c by boronate affinity immunoassay using bacterial magnetic particles. <i>Biosensors and Bioelectronics</i> , 2001, 16, 1089-1094.	5.3	38
144	Molecular Mechanism of Magnet Formation in Bacteria.. <i>Journal of Bioscience and Bioengineering</i> , 2000, 90, 1-13.	1.1	38

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145	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
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