

# Tadashi Matsunaga

## List of Publications by Citations

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435  
papers

15,309  
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62  
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102  
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456  
ext. papers

16,285  
ext. citations

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6.21  
L-index

#	Paper	IF	Citations
435	Photoelectrochemical sterilization of microbial cells by semiconductor powders. <i>FEMS Microbiology Letters</i> , <b>1985</b> , 29, 211-214	2.9	1113
434	Continuous-sterilization system that uses photosemiconductor powders. <i>Applied and Environmental Microbiology</i> , <b>1988</b> , 54, 1330-3	4.8	302
433	A novel protein tightly bound to bacterial magnetic particles in <i>Magnetospirillum magneticum</i> strain AMB-1. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 8745-50	5.4	294
432	Microbial electrode BOD sensors. <i>Biotechnology and Bioengineering</i> , <b>1977</b> , 19, 1535-47	4.9	289
431	Size-selective microcavity array for rapid and efficient detection of circulating tumor cells. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6629-35	7.8	272
430	Magnetite formation by a magnetic bacterium capable of growing aerobically. <i>Applied Microbiology and Biotechnology</i> , <b>1991</b> , 35, 651	5.7	241
429	Fully automated chemiluminescence immunoassay of insulin using antibody-protein A-bacterial magnetic particle complexes. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 3518-22	7.8	227
428	Controlled formation of magnetite crystal by partial oxidation of ferrous hydroxide in the presence of recombinant magnetotactic bacterial protein Mms6. <i>Biomaterials</i> , <b>2007</b> , 28, 5381-9	15.6	223
427	Magnetite formation by a sulphate-reducing bacterium. <i>Nature</i> , <b>1993</b> , 365, 47-49	50.4	213
426	Formation of magnetite by bacteria and its application. <i>Journal of the Royal Society Interface</i> , <b>2008</b> , 5, 977-99	4.1	188
425	Complete genome sequence of the facultative anaerobic magnetotactic bacterium <i>Magnetospirillum</i> sp. strain AMB-1. <i>DNA Research</i> , <b>2005</b> , 12, 157-66	4.5	186
424	Synthesis of magnetic nanoparticles and their application to bioassays. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 384, 593-600	4.4	148
423	Continuous hydrogen production by immobilized whole cells of <i>Clostridium butyricum</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1976</b> , 444, 338-43	4	144
422	Use of magnetic particles isolated from magnetotactic bacteria for enzyme immobilization. <i>Applied Microbiology and Biotechnology</i> , <b>1987</b> , 26, 328	5.7	139
421	Magnetic cell separation using antibody binding with protein a expressed on bacterial magnetic particles. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 6207-13	7.8	136
420	<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> , <b>2002</b> , 52, 215-221	2.2	134
419	Size-based isolation of circulating tumor cells in lung cancer patients using a microcavity array system. <i>PLoS ONE</i> , <b>2013</b> , 8, e67466	3.7	131

4 <sup>18</sup>	MMS6 protein regulates crystal morphology during nano-sized magnetite biomineralization in vivo. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 6386-92	5.4	129
4 <sup>17</sup>	Origin of magnetosome membrane: proteomic analysis of magnetosome membrane and comparison with cytoplasmic membrane. <i>Proteomics</i> , <b>2006</b> , 6, 5234-47	4.8	120
4 <sup>16</sup>	Immunoassay method for the determination of immunoglobulin G using bacterial magnetic particles. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 268-72	7.8	120
4 <sup>15</sup>	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> , <b>2001</b> , 29, 13-19	3.8	118
4 <sup>14</sup>	An iron-regulated gene, magA, encoding an iron transport protein of <i>Magnetospirillum</i> sp. strain AMB-1. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 28392-6	5.4	118
4 <sup>13</sup>	TiO <sub>2</sub> -Mediated Photochemical Disinfection of <i>Escherichia coli</i> Using Optical Fibers. <i>Environmental Science &amp; Technology</i> , <b>1995</b> , 29, 501-5	10.3	113
4 <sup>12</sup>	Fabrication of amino silane-coated microchip for DNA extraction from whole blood. <i>Journal of Biotechnology</i> , <b>2005</b> , 116, 105-11	3.7	112
4 <sup>11</sup>	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> , <b>2010</b> , 343, 65-70	9.3	111
4 <sup>10</sup>	DNA extraction using modified bacterial magnetic particles in the presence of amino silane compound. <i>Journal of Biotechnology</i> , <b>2002</b> , 94, 217-24	3.7	110
4 <sup>09</sup>	Chemiluminescence enzyme immunoassay using bacterial magnetic particles. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 3551-4	7.8	103
4 <sup>08</sup>	Molecular analysis of magnetotactic bacteria and development of functional bacterial magnetic particles for nano-biotechnology. <i>Trends in Biotechnology</i> , <b>2007</b> , 25, 182-8	15.1	101
4 <sup>07</sup>	Screening of marine microalgae for bioremediation of cadmium-polluted seawater. <i>Journal of Biotechnology</i> , <b>1999</b> , 70, 33-8	3.7	101
4 <sup>06</sup>	Biochemical fuel cell utilizing immobilized cells of <i>Clostridium butyricum</i> . <i>Biotechnology and Bioengineering</i> , <b>1977</b> , 19, 1727-1733	4.9	101
4 <sup>05</sup>	DNA extraction using bacterial magnetic particles modified with hyperbranched polyamidoamine dendrimer. <i>Journal of Biotechnology</i> , <b>2003</b> , 101, 219-28	3.7	100
4 <sup>04</sup>	Whole genome sequence of <i>Desulfovibrio magneticus</i> strain RS-1 revealed common gene clusters in magnetotactic bacteria. <i>Genome Research</i> , <b>2009</b> , 19, 1801-8	9.7	98
4 <sup>03</sup>	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 50, 111-120	11.4	97
4 <sup>02</sup>	Detection and removal of <i>Escherichia coli</i> using fluorescein isothiocyanate conjugated monoclonal antibody immobilized on bacterial magnetic particles. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 2036-9	7.8	96
4 <sup>01</sup>	Efficient and stable display of functional proteins on bacterial magnetic particles using mms13 as a novel anchor molecule. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 465-71	4.8	91

390	Gene transfer in magnetic bacteria: transposon mutagenesis and cloning of genomic DNA fragments required for magnetosome synthesis. <i>Journal of Bacteriology</i> , <b>1992</b> , 174, 2748-53	3.5	86
399	Investigation of the antiviral properties of copper iodide nanoparticles against feline calicivirus. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 580-6	3.3	84
398	Contributions of phosphate to DNA adsorption/desorption behaviors on aminosilane-modified magnetic nanoparticles. <i>Langmuir</i> , <b>2009</b> , 25, 2956-61	4	84
397	Iron-regulated expression and membrane localization of the magA protein in <i>Magnetospirillum</i> sp. strain AMB-1. <i>Journal of Biochemistry</i> , <b>1995</b> , 118, 23-7	3.1	81
396	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> , <b>2013</b> , 85, 5692-8	7.8	80
395	Disinfection of drinking water by using a novel electrochemical reactor employing carbon-cloth electrodes. <i>Applied and Environmental Microbiology</i> , <b>1992</b> , 58, 686-9	4.8	80
394	Whole-metagenome amplification of a microbial community associated with scleractinian coral by multiple displacement amplification using phi29 polymerase. <i>Environmental Microbiology</i> , <b>2006</b> , 8, 1155-63	5.2	79
393	Dynamic analysis of a genomic island in <i>Magnetospirillum</i> sp. strain AMB-1 reveals how magnetosome synthesis developed. <i>FEBS Letters</i> , <b>2006</b> , 580, 801-12	3.8	78
392	Highly sensitive detection of allergen using bacterial magnetic particles. <i>Analytica Chimica Acta</i> , <b>1993</b> , 281, 585-589	6.6	78
391	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> , <b>1997</b> , 143 ( Pt 8), 2725-2731	2.9	76
390	Production of antioxidant vitamins, beta-carotene, vitamin C, and vitamin E, by two-step culture of <i>Euglena gracilis</i> Z. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 53, 185-90	4.9	74
389	Glutamate production from CO <sub>2</sub> by Marine Cyanobacterium <i>Synechococcus</i> sp.. <i>Applied Biochemistry and Biotechnology</i> , <b>1991</b> , 28-29, 157-167	3.2	73
388	Detection of microbial cells by cyclic voltammetry. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 798-801	7.8	73
387	Rapid and sensitive detection of 17beta-estradiol in environmental water using automated immunoassay system with bacterial magnetic particles. <i>Journal of Biotechnology</i> , <b>2004</b> , 108, 153-9	3.7	72
386	Chemiluminescence enzyme immunoassay using ProteinA-bacterial magnetite complex. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 194, 126-131	2.8	72
385	Fully automated DNA extraction from blood using magnetic particles modified with a hyperbranched polyamidoamine dendrimer. <i>Journal of Bioscience and Bioengineering</i> , <b>2003</b> , 95, 21-6	3.3	71
384	Chlorophyll a/P-700 and pheophytin a/P-680 stoichiometries in higher plants and cyanobacteria determined by HPLC analysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1988</b> , 936, 81-89	4.6	71
383	751 Electrochemical sterilization of microbial cells. <i>Bioelectrochemistry</i> , <b>1984</b> , 13, 393-400		71

382	High-density microcavity array for cell detection: single-cell analysis of hematopoietic stem cells in peripheral blood mononuclear cells. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5308-13	7.8	69
381	Magnetic cell separation using nano-sized bacterial magnetic particles with reconstructed magnetosome membrane. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 101, 470-7	4.9	69
380	Saccharification of marine microalgae using marine bacteria for ethanol production. <i>Applied Biochemistry and Biotechnology</i> , <b>2003</b> , 105 -108, 247-54	3.2	69
379	Use of silk fibroin for enzyme membrane. <i>Journal of Biotechnology</i> , <b>1987</b> , 5, 199-207	3.7	69
378	Biotechnological application of nano-scale engineered bacterial magnetic particles. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2099		66
377	Evolutionary relationships among Magnetospirillum strains inferred from phylogenetic analysis of 16S rDNA sequences. <i>Journal of Bacteriology</i> , <b>1993</b> , 175, 6689-94	3.5	65
376	Global gene expression analysis of iron-inducible genes in Magnetospirillum magneticum AMB-1. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 2275-9	3.5	64
375	Production of eicosapentaenoic acid by a recombinant marine cyanobacterium, Synechococcus sp. <i>Lipids</i> , <b>2000</b> , 35, 1061-4	1.6	64
374	Applications of bacterial magnets. <i>Trends in Biotechnology</i> , <b>1991</b> , 9, 91-5	15.1	64
373	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> , <b>2013</b> , 15, 48-55	3.4	62
372	Fully automated immunoassay system of endocrine disrupting chemicals using monoclonal antibodies chemically conjugated to bacterial magnetic particles. <i>Analytica Chimica Acta</i> , <b>2003</b> , 475, 75-83	6.6	62
371	Microfabricated on-chip-type electrochemical flow immunoassay system for the detection of histamine released in whole blood samples. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3316-21	7.8	62
370	CO2 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> , <b>1992</b> , 34-35, 449-458	3.2	62
369	An ultraviolet (UV-A) absorbing biopterin glucoside from the marine planktonic cyanobacterium <i>Oscillatoria</i> sp.. <i>Applied Microbiology and Biotechnology</i> , <b>1993</b> , 39, 250	5.7	62
368	Novel detection system for biomolecules using nano-sized bacterial magnetic particles and magnetic force microscopy. <i>Journal of Biotechnology</i> , <b>2005</b> , 120, 308-14	3.7	61
367	Use of a Titanium Nitride for Electrochemical Inactivation of Marine Bacteria. <i>Environmental Science &amp; Technology</i> , <b>1998</b> , 32, 798-801	10.3	61
366	Rapid determination of nicotinic acid by immobilized lactobacillus arabinosus. <i>Analytica Chimica Acta</i> , <b>1978</b> , 99, 233-239	6.6	61
365	Magnetic bacterial protein Mms6 controls morphology, crystallinity and magnetism of cobalt-doped magnetite nanoparticles in vitro. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15244		59

364	Magnetic Nanotube Fabrication by Using Bacterial Magnetic Nanocrystals. <i>Advanced Materials</i> , <b>2005</b> , 17, 1128-1131	24	59
363	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> , <b>2010</b> , 161, 483-90	3.2	58
362	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> , <b>2003</b> , 84, 96-102	4.9	56
361	Siderophore production by the magnetic bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>FEMS Microbiology Letters</i> , <b>2003</b> , 218, 371-5	2.9	56
360	. <i>IEEE Transactions on Magnetics</i> , <b>1990</b> , 26, 1557-1559	2	56
359	Characterization of marine microalga, <i>Scenedesmus</i> sp. strain JPCC GA0024 toward biofuel production. <i>Biotechnology Letters</i> , <b>2009</b> , 31, 1367-72	3	55
358	Assembly of G protein-coupled receptors onto nanosized bacterial magnetic particles using Mms16 as an anchor molecule. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 2880-5	4.8	54
357	Genes and proteins involved in bacterial magnetic particle formation. <i>Trends in Microbiology</i> , <b>2003</b> , 11, 536-41	12.4	53
356	Design and application of a new cryptic-plasmid-based shuttle vector for <i>Magnetospirillum magneticum</i> . <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 4274-7	4.8	53
355	Sulfated exopolysaccharide production by the halophilic cyanobacterium <i>Aphanocapsa halophytia</i> . <i>Current Microbiology</i> , <b>1995</b> , 30, 219-222	2.4	53
354	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> , <b>1993</b> , 39, 456-459	5.7	53
353	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> , <b>2001</b> , 16, 1063-9	11.8	52
352	A morphological classification of bacteria containing bullet-shaped magnetic particles. <i>FEMS Microbiology Letters</i> , <b>1994</b> , 115, 169-176	2.9	52
351	Electrode system for the determination of microbial populations. <i>Applied and Environmental Microbiology</i> , <b>1979</b> , 37, 117-21	4.8	52
350	<i>Altererythrobacter ishigakiensis</i> sp. nov., an astaxanthin-producing bacterium isolated from a marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2011</b> , 61, 2956-2961	2.2	51
349	Electrochemical prevention of marine biofouling with a carbon-chloroprene sheet. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 3757-62	4.8	51
348	Electrochemical disinfection of bacteria in drinking water using activated carbon fibers. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 43, 429-33	4.9	50
347	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> , <b>2008</b> , 80, 5139-45	7.8	49

346	Capture and release of DNA using aminosilane-modified bacterial magnetic particles for automated detection system of single nucleotide polymorphisms. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 862-869	4.9	49
345	A magnetosome-specific GTPase from the magnetic bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 48183-8	5.4	49
344	Cloning and characterization of a gene, <i>mpsA</i> , encoding a protein associated with intracellular magnetic particles from <i>Magnetospirillum</i> sp. strain AMB-1. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 268, 932-7	3.4	49
343	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> , <b>1992</b> , 37, 369-73	5.7	49
342	Application of bacterial magnetic particles for highly selective mRNA recovery system. <i>Biotechnology Letters</i> , <b>1993</b> , 7, 688-694		48
341	Hydrogen production from glucose by immobilized growing cells of <i>Clostridium butyricum</i> . <i>European Journal of Applied Microbiology and Biotechnology</i> , <b>1982</b> , 16, 5-9		48
340	Co-ordinated functions of Mms proteins define the surface structure of cubo-octahedral magnetite crystals in magnetotactic bacteria. <i>Molecular Microbiology</i> , <b>2014</b> , 93, 554-67	4.1	47
339	Prevention of marine biofouling using a conductive paint electrode. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 59, 374-8	4.9	47
338	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> , <b>2001</b> , 91, 500-503	3.3	47
337	Molecular mechanism of magnet formation in bacteria. <i>Journal of Bioscience and Bioengineering</i> , <b>2000</b> , 90, 1-13	3.3	47
336	Phylogenetic analysis of a novel sulfate-reducing magnetic bacterium, RS-1, demonstrates its membership of the delta-Proteobacteria. <i>FEMS Microbiology Letters</i> , <b>1995</b> , 126, 277-82	2.9	47
335	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> , <b>1995</b> , 43, 1014-1018	5.7	47
334	Identification and functional characterization of liposome tubulation protein from magnetotactic bacteria. <i>Molecular Microbiology</i> , <b>2010</b> , 76, 480-8	4.1	46
333	Biomagnetic nanoparticle formation and application. <i>Supramolecular Science</i> , <b>1998</b> , 5, 391-394		46
332	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> , <b>2006</b> , 350, 1019-25	3.4	46
331	Microbioassay of nystatin with a yeast electrode. <i>Analytica Chimica Acta</i> , <b>1979</b> , 109, 39-44	6.6	46
330	Amino-silane modified superparamagnetic particles with surface-immobilized enzyme. <i>Journal of Colloid and Interface Science</i> , <b>1991</b> , 141, 505-511	9.3	45
329	Single nucleotide polymorphism detection in aldehyde dehydrogenase 2 (ALDH2) gene using bacterial magnetic particles based on dissociation curve analysis. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 87, 687-94	4.9	43

328	Detection of biomolecular interaction between biotin and streptavidin on a self-assembled monolayer using magnetic nanoparticles. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 88, 543-6	4.9	43
327	Development of a novel method for screening of estrogenic compounds using nano-sized bacterial magnetic particles displaying estrogen receptor. <i>Analytica Chimica Acta</i> , <b>2005</b> , 532, 105-111	6.6	43
326	Biochemical energy conversion using immobilized whole cells of <i>Clostridium butyricum</i> . <i>Biochimie</i> , <b>1980</b> , 62, 353-8	4.6	43
325	Phylogenetic relationships among <i>Thunnus</i> species inferred from rDNA ITS1 sequence. <i>Journal of Fish Biology</i> , <b>2006</b> , 68, 24-35	1.9	42
324	Fluorescent detection of cyanobacterial DNA using bacterial magnetic particles on a MAG-microarray. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 73, 400-5	4.9	42
323	Salmonella electrode for screening mutagens. <i>Analytical Chemistry</i> , <b>1982</b> , 54, 1725-7	7.8	42
322	Microfluidic device with chemical gradient for single-cell cytotoxicity assays. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3648-54	7.8	41
321	Investigation on natural diets of larval marine animals using peptide nucleic acid-directed polymerase chain reaction clamping. <i>Marine Biotechnology</i> , <b>2011</b> , 13, 305-13	3.4	41
320	Fully automated immunoassay for detection of prostate-specific antigen using nano-magnetic beads and micro-polystyrene bead composites, Beads on BeadsQ. <i>Analytica Chimica Acta</i> , <b>2007</b> , 597, 331-9	6.6	41
319	Isolation and characterization of a GDSL esterase from the metagenome of a marine sponge-associated bacteria. <i>Marine Biotechnology</i> , <b>2010</b> , 12, 395-402	3.4	40
318	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, <i>Fistulifera</i> sp. JPCDA0580. <i>Bioresource Technology</i> , <b>2013</b> , 137, 132-8	11	39
317	Preliminary screening of mutagens with a microbial sensor. <i>Analytical Chemistry</i> , <b>1981</b> , 53, 1024-6	7.8	39
316	Development of efficient expression system for protein display on bacterial magnetic particles. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 338, 1678-81	3.4	38
315	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> , <b>2000</b> , 84-86, 441-6	3.2	38
314	Simultaneously discrete biomineralization of magnetite and tellurium nanocrystals in magnetotactic bacteria. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 5526-32	4.8	37
313	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> , <b>2009</b> , 9, 1052-8	7.2	37
312	Extracellular reduction of selenite by a novel marine photosynthetic bacterium. <i>Applied Microbiology and Biotechnology</i> , <b>1997</b> , 48, 367-72	5.7	37
311	Development of an electrochemical antifouling system for seawater cooling pipelines of power plants using titanium. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 95, 468-73	4.9	37



310	TiN electrode reactor for disinfection of drinking water. <i>Water Research</i> , <b>2000</b> , 34, 3117-3122	12.5	37
309	Enhancement of magnetic particle production by nitrate and succinate fed-batch culture of <i>Magnetospirillum</i> sp. AMB-1. <i>Biotechnology Letters</i> , <b>1996</b> , 10, 495		37
308	Extracts of Marine cyanobacteria stimulated somatic embryogenesis of <i>Daucus carota</i> L. <i>Plant Cell Reports</i> , <b>1991</b> , 9, 655-8	5.1	37
307	Dye-coupled electrode system for the rapid determination of cell populations in polluted water. <i>Applied and Environmental Microbiology</i> , <b>1982</b> , 43, 814-8	4.8	37
306	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> , <b>1995</b> , 1244, 165-8	4	36
305	Some observations on immobilized hydrogen-producing bacteria: Behavior of hydrogen in gel membranes. <i>Biotechnology and Bioengineering</i> , <b>1980</b> , 22, 2607-2615	4.9	36
304	Detection of HbA(1c) by boronate affinity immunoassay using bacterial magnetic particles. <i>Biosensors and Bioelectronics</i> , <b>2001</b> , 16, 1089-94	11.8	35
303	Electrochemical microbioassay of vitamin b1. <i>Analytica Chimica Acta</i> , <b>1978</b> , 98, 25-30	6.6	35
302	Molecular Mechanism of Magnet Formation in Bacteria.. <i>Journal of Bioscience and Bioengineering</i> , <b>2000</b> , 90, 1-13	3.3	35
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