

Tadashi Matsunaga

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

435
papers

15,309
citations

62
h-index

102
g-index

456
ext. papers

16,285
ext. citations

5.2
avg, IF

6.21
L-index

#	Paper	IF	Citations
435	Transcriptomic profiling of single circulating tumor cells provides insight into human metastatic gastric cancer.. <i>Communications Biology</i> , 2022 , 5, 20	6.7	1
434	Adsorption of Biomimetic Protein Mms6 on Magnetite (Fe ₃ O ₄) Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5554	6.3	0
433	Lensless imaging-based discrimination between tumour cells and blood cells towards circulating tumour cell cultivation. <i>Analyst, The</i> , 2021 , 146, 7327-7335	5	
432	Amplification-free detection of bacterial genes using a signaling probe-based DNA microarray. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113659	11.8	2
431	Restoration and Modification of Magnetosome Biosynthesis by Internal Gene Acquisition in a Magnetotactic Bacterium. <i>Biotechnology Journal</i> , 2020 , 15, e2000278	5.6	2
430	Rapid discrimination of fungal species by the colony fingerprinting. <i>Biosensors and Bioelectronics</i> , 2019 , 146, 111747	11.8	3
429	Gel-based cell manipulation method for isolation and genotyping of single-adherent cells. <i>Analyst, The</i> , 2019 , 144, 990-996	5	8
428	Biosynthesis of Thermoresponsive Magnetic Nanoparticles by Magnetosome Display System. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1756-1762	6.3	7
427	Bioengineering and Biotechnological Applications of Bacterial Magnetic Particles 2018 , 77-93		
426	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	7.8	10
425	Enhanced Tubulation of Liposome Containing Cardiolipin by MamY Protein from Magnetotactic Bacteria. <i>Biotechnology Journal</i> , 2018 , 13, e1800087	5.6	10
424	Molecular Mechanism of Magnetic Crystal Formation in Magnetotactic Bacteria 2018 , 23-51		1
423	Marine microalgae for production of biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 111-120	11.4	97
422	Colony Fingerprint-Based Discrimination of species with Machine Learning Approaches. <i>Sensors</i> , 2018 , 18,	3.8	5
421	Evaluation of cancer cell deformability by microcavity array. <i>Analytical Biochemistry</i> , 2017 , 520, 16-21	3.1	7
420	Rapid imaging and detection of circulating tumor cells using a wide-field fluorescence imaging system. <i>Analytica Chimica Acta</i> , 2017 , 969, 1-7	6.6	10
419	Colony fingerprint for discrimination of microbial species based on lensless imaging of microcolonies. <i>PLoS ONE</i> , 2017 , 12, e0174723	3.7	11

4 ¹⁸	Production of β fatty acids in marine cyanobacterium <i>Synechococcus</i> sp. strain NKBG 15041c via genetic engineering. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6899-6905	5.7	14
4 ¹⁷	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	3.3	13
4 ¹⁶	Enhancement of Biomass and Lipid Productivities of Water Surface-Floating Microalgae by Chemical Mutagenesis. <i>Marine Drugs</i> , 2017 , 15,	6	10
4 ¹⁵	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	5.7	1
4 ¹⁴	Control of magnetite nanocrystal morphology in magnetotactic bacteria by regulation of mms7 gene expression. <i>Scientific Reports</i> , 2016 , 6, 29785	4.9	22
4 ¹³	Manipulation of a Single Circulating Tumor Cell Using Visualization of Hydrogel Encapsulation toward Single-Cell Whole-Genome Amplification. <i>Analytical Chemistry</i> , 2016 , 88, 7230-7	7.8	21
4 ¹²	DNA recovery from a single bacterial cell using charge-reversible magnetic nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 139, 117-22	6	9
4 ¹¹	??????. <i>Electrochemistry</i> , 2016 , 84, 743-746	1.2	1
4 ¹⁰	Core Amino Acid Residues in the Morphology-Regulating Protein, Mms6, for Intracellular Magnetite Biomineralization. <i>Scientific Reports</i> , 2016 , 6, 35670	4.9	15
4 ⁰⁹	Bacterial Inactivation by Applying an Alternating Electromagnetic Field Using PAMAM Dendron-modified Magnetic Nanoparticles. <i>Electrochemistry</i> , 2016 , 84, 324-327	1.2	4
4 ⁰⁸	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 3886-3891	4.8	27
4 ⁰⁷	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	4.5	13
4 ⁰⁶	Novel designs of single-chain MHC I/peptide complex for the magnetosome display system. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 53-8	1.9	7
4 ⁰⁵	Crystal Growth of Aspirin Using a Temperature-Controlled Microfluidic Device. <i>Crystal Growth and Design</i> , 2015 , 15, 4549-4555	3.5	5
4 ⁰⁴	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	6.7	
4 ⁰³	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	6.7	5
4 ⁰²	Capsid protein oxidation in feline calicivirus using an electrochemical inactivation treatment. <i>Journal of Hazardous Materials</i> , 2015 , 283, 410-5	12.8	12
4 ⁰¹	Evaluation of a Microbial Sensor as a Tool for Antimicrobial Activity Test of Cosmetic Preservatives. <i>Biocontrol Science</i> , 2015 , 20, 247-53	1.5	2

400	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, 350-5	11.8	5
399	Development of the automated circulating tumor cell recovery system with microcavity array. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 438-42	11.8	20
398	Marine Microalgae 2015 , 51-63		1
397	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	1.3	34
396	Functional expression of an scFv on bacterial magnetic particles by in vitro docking. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 1-5	3.4	10
395	Digital cell counting device integrated with a single-cell array. <i>PLoS ONE</i> , 2014 , 9, e89011	3.7	14
394	Co-ordinated functions of Mms proteins define the surface structure of cubo-octahedral magnetite crystals in magnetotactic bacteria. <i>Molecular Microbiology</i> , 2014 , 93, 554-67	4.1	47
393	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	3.3	10
392	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	3.4	62
391	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	3.6	5
390	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, 480-483	3.3	14
389	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, <i>Fistulifera</i> sp. JPCC DA0580. <i>Bioresource Technology</i> , 2013 , 137, 132-8	11	39
388	Molecular Bioengineering of Magnetosomes for Biotechnological Applications 2013 , 241-271		
387	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, 5692-8	7.8	80
386	Monitoring of benzene-induced hematotoxicity in mice by serial leukocyte counting using a microcavity array. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 110-4	11.8	7
385	Glycosylceramides from marine green microalga <i>Tetraselmis</i> sp. <i>Phytochemistry</i> , 2013 , 85, 107-14	4	14
384	Size-based isolation of circulating tumor cells in lung cancer patients using a microcavity array system. <i>PLoS ONE</i> , 2013 , 8, e67466	3.7	131
383	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, 14426-38	6.3	17

382	Comprehensive evaluation of leukocyte lineage derived from human hematopoietic cells in humanized mice. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 529-35	3.3	5
381	Investigation of the antiviral properties of copper iodide nanoparticles against feline calicivirus. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 580-6	3.3	84
380	Characterization of magnetic nanoparticles modified with thiol functionalized PAMAM dendron for DNA recovery. <i>Journal of Colloid and Interface Science</i> , 2012 , 377, 469-75	9.3	24
379	Biologically synthesized or bioinspired process-derived iron oxides as catalysts for living cationic polymerization of a vinyl ether. <i>Chemical Communications</i> , 2012 , 48, 10904-6	5.8	18
378	Efficient DNA release from PAMAM dendrimer-modified superparamagnetic nanoparticles for DNA recovery. <i>Polymer Journal</i> , 2012 , 44, 672-677	2.7	15
377	Proteomic analysis from the mineralized radular teeth of the giant Pacific chiton, <i>Cryptochiton stelleri</i> (Mollusca). <i>Proteomics</i> , 2012 , 12, 2890-4	4.8	31
376	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	3.4	23
375	Assessment of the anti-biofouling potentials of a copper iodide-doped nylon mesh. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 1043-50	5.7	8
374	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11919		32
373	Fabrication of lipid tubules with embedded quantum dots by membrane tubulation protein. <i>Small</i> , 2012 , 8, 1590-5	11	12
372	Leukocyte counting from a small amount of whole blood using a size-controlled microcavity array. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2017-24	4.9	30
371	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	5.1	
370	Effect of magnetite nanoparticles on living rate of MCF-7 human breast cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 95, 254-7	6	28
369	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		
368	Assessment of benzene-induced hematotoxicity using a human-like hematopoietic lineage in NOD/Shi-scid/IL-2R β mice. <i>PLoS ONE</i> , 2012 , 7, e50448	3.7	5
367	Sensitivity of microcavity array system for circulating tumor cells in lung cancer patients.. <i>Journal of Clinical Oncology</i> , 2012 , 30, e21007-e21007	2.2	
366	<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	2.2	51
365	Microfluidic device with chemical gradient for single-cell cytotoxicity assays. <i>Analytical Chemistry</i> , 2011 , 83, 3648-54	7.8	41

364	High-throughput pyrosequencing of the chloroplast genome of a highly neutral-lipid-producing marine pennate diatom, <i>Fistulifera</i> sp. strain JPCC DA0580. <i>Photosynthesis Research</i> , 2011 , 109, 223-9	3.7	32
363	Investigation on natural diets of larval marine animals using peptide nucleic acid-directed polymerase chain reaction clamping. <i>Marine Biotechnology</i> , 2011 , 13, 305-13	3.4	41
362	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, 1942-6	11.8	14
361	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		59
360	MMS6 protein regulates crystal morphology during nano-sized magnetite biomineralization in vivo. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6386-92	5.4	129
359	Identification and functional characterization of liposome tubulation protein from magnetotactic bacteria. <i>Molecular Microbiology</i> , 2010 , 76, 480-8	4.1	46
358	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, 5785-90	4.8	17
357	Electrochemical and Magnetic Technologies for Bio Applications. <i>Nanostructure Science and Technology</i> , 2010 , 151-167	0.9	
356	Inducible expression of transmembrane proteins on bacterial magnetic particles in <i>Magnetospirillum magneticum</i> AMB-1. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1152-7	4.8	23
355	Preparation of genomic DNA from a single species of uncultured magnetotactic bacterium by multiple-displacement amplification. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1480-5	4.8	26
354	Bioengineering of bacterial magnetic particles and their applications in biotechnology. <i>Recent Patents on Biotechnology</i> , 2010 , 4, 214-25	2.2	15
353	Size-selective microcavity array for rapid and efficient detection of circulating tumor cells. <i>Analytical Chemistry</i> , 2010 , 82, 6629-35	7.8	272
352	Simultaneously discrete biomineralization of magnetite and tellurium nanocrystals in magnetotactic bacteria. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5526-32	4.8	37
351	Single-cell detection using a thin film transistor photosensor with micro-partitions. <i>Lab on A Chip</i> , 2010 , 10, 3348-54	7.2	11
350	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	1
349	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, 1193-203	5.7	15
348	Surface modification of magnetic nanoparticles using asparagines-serine polypeptide designed to control interactions with cell surfaces. <i>Biomaterials</i> , 2010 , 31, 4952-7	15.6	34
347	Isolation and characterization of a GDSL esterase from the metagenome of a marine sponge-associated bacteria. <i>Marine Biotechnology</i> , 2010 , 12, 395-402	3.4	40

346	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, 483-90	3.2	58
345	Three-Dimensional Directed Self-Assembly of Peptide Nanowires into Micrometer-Sized Crystalline Cubes with Nanoparticle Joints. <i>Angewandte Chemie</i> , 2010 , 122, 8553-8556	3.6	2
344	Three-dimensional directed self-assembly of Peptide nanowires into micrometer-sized crystalline cubes with nanoparticle joints. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8375-8	16.4	27
343	TCR-beta repertoire analysis of antigen-specific single T cells using a high-density microcavity array. <i>Biotechnology and Bioengineering</i> , 2010 , 106, 311-8	4.9	9
342	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	9.3	111
341	High-content analysis of single cells directly assembled on CMOS sensor based on color imaging. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1460-5	11.8	23
340	Construction of an Electrochemical Antibiofouling System for Plate Heat Exchangers. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 608-611	0.8	2
339	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	2.2	8
338	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		10
337	Gold Biorecovery from Plating Waste by Magnetotactic Bacterium, <i>Magnetospirillum magneticum</i> AMB-1. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1169, 312		3
336	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	3.3	
335	A single-cell based biosensing device directed for lipophilic chemical screening and evaluation. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, S150-S151	3.3	
334	Microbial electrode BOD sensors. <i>Biotechnol Bioeng</i> . Vol. XIX, Pgs. 1535-47 (1977). <i>Biotechnology and Bioengineering</i> , 2009 , 102, 660-72	4.9	5
333	Nano-sized bacterial magnetic particles displaying pyruvate phosphate dikinase for pyrosequencing. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 130-7	4.9	12
332	Direct magnetic separation of immune cells from whole blood using bacterial magnetic particles displaying protein G. <i>Biotechnology Progress</i> , 2009 , 25, 219-26	2.8	27
331	Characterization of marine microalga, <i>Scenedesmus</i> sp. strain JPCC GA0024 toward biofuel production. <i>Biotechnology Letters</i> , 2009 , 31, 1367-72	3	55
330	Proteomic analysis of irregular, bullet-shaped magnetosomes in the sulphate-reducing magnetotactic bacterium <i>Desulfovibrio magneticus</i> RS-1. <i>Proteomics</i> , 2009 , 9, 3341-52	4.8	28
329	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, 186-90	6.6	22

328	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, 304-9	6.3	18
327	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, 5308-13	7.8	69
326	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, 123-9	4.4	5
325	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		30
324	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, 1052-8	7.2	37
323	Contributions of phosphate to DNA adsorption/desorption behaviors on aminosilane-modified magnetic nanoparticles. <i>Langmuir</i> , 2009 , 25, 2956-61	4	84
322	Whole genome sequence of <i>Desulfovibrio magneticus</i> strain RS-1 revealed common gene clusters in magnetotactic bacteria. <i>Genome Research</i> , 2009 , 19, 1801-8	9.7	98
321	3SP5-03 Development of functionalized magnetic nanobeads based on fundamental biomineralization studies(3SP5 Development of dynamic molecular systems sharing the characteristics with living systems : from supra-molecular devices to bio-reorganizing machines,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Datsuzi</i> , 2009 , 49, 320-321	0	
320	Noncovalent immobilization of streptavidin on in vitro- and in vivo-biotinylated bacterial magnetic particles. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5139-45	4.8	28
319	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, 1077-87	3.6	5
318	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, 5139-45	7.8	49
317	Bioengineering of bacterial magnetic particles and its application to estrogen receptor-ligand binding assay. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1094, 1		2
316	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		
315	Site-selective immobilization of streptavidin on enzymatically biotinylated bacterial magnetic particles. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1094, 1		
314	Development of a cell surface display system in a magnetotactic bacterium, "Magnetospirillum magneticum" AMB-1. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 3342-8	4.8	21
313	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, 7600-6	4.8	20
312	Fabrication of Genetic Diagnostic Chip using DNA-arrayed TFT Photosensor. <i>Electrochemistry</i> , 2008 , 76, 573-575	1.2	4
311	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	1.2	0

310	?????????????????. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2008 , 59, 377-381	0.1	
309	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, 1453-61	4.9	4
308	Magnetic cell separation using nano-sized bacterial magnetic particles with reconstructed magnetosome membrane. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 470-7	4.9	69
307	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, 71-7	6.6	12
306	Formation of magnetite by bacteria and its application. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 977-99	4.1	188
305	Quantitative Detection of Immunoreaction using Magnetite Nanoparticles and Raman Scattering Spectroscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008 , 6, 142-146	0.7	2
304	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, 272-80	4.9	32
303	Electrochemical detection of HbA1c, a marker [correction of maker] for diabetes, using a flow immunoassay system. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2051-6	11.8	34
302	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, 2282-8	11.8	16
301	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, 2276-81	11.8	7
300	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, 331-9	6.6	41
299	Cytoplasmic ATPase involved in ferrous ion uptake from magnetotactic bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>FEBS Letters</i> , 2007 , 581, 3443-8	3.8	15
298	Molecular analysis of magnetotactic bacteria and development of functional bacterial magnetic particles for nano-biotechnology. <i>Trends in Biotechnology</i> , 2007 , 25, 182-8	15.1	101
297	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, 5381-9	15.6	223
296	High-throughput SNP detection using nano-scale engineered biomagnetite. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2315-21	11.8	26
295	339 Development of Micro-Magnetic Actuator using Magnetotactic Bacteria : Motion control of Magnetotactic Bacteria by Dielectrophoresis. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2007 , 2006.19, 334-335	0	
294	Molecular Bioengineering of Bacterial Magnetic Particles for Biotechnological Applications 2006 , 227-254		16
293	Synthesis of magnetic nanoparticles and their application to bioassays. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 593-600	4.4	148

292	Simultaneous detection of multiple mutations conferring streptomycin resistance in <i>Mycobacterium tuberculosis</i> using nanoscale engineered biomagnetites. <i>Nanobiotechnology</i> , 2006 , 2, 71-78		1
291	Catechol siderophore excretion by magnetotactic bacterium <i>Magnetospirillum magneticum</i> AMB-1. <i>Journal of Bioscience and Bioengineering</i> , 2006 , 101, 445-7	3.3	24
290	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, 862-8	4.9	49
289	Oligonucleotide-arrayed TFT photosensor applicable for DNA chip technology. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 22-8	4.9	15
288	Development of an electrochemical antifouling system for seawater cooling pipelines of power plants using titanium. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 468-73	4.9	37
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