

Hisao Ohtake

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.

159
papers

4,516
citations

37
h-index

60
g-index

166
ext. papers

4,974
ext. citations

4.2
avg. IF

4.91
L-index

#	Paper	IF	Citations
159	Heatphos Process for Recovering Phosphorus from Bio-P Sludge Before Anaerobic Digestion 2019 , 515-526		5
158	Online measurement of the respiratory activity in shake flasks enables the identification of cultivation phases and patterns indicating recombinant protein production in various <i>Escherichia coli</i> host strains. <i>Biotechnology Progress</i> , 2018 , 34, 315-327	2.8	7
157	Simple technology for recycling phosphate from wastewater to farmland in rural areas. <i>Ambio</i> , 2018 , 47, 83-92	6.5	3
156	Handling the phosphorus paradox in agriculture and natural ecosystems: Scarcity, necessity, and burden of P. <i>Ambio</i> , 2018 , 47, 3-19	6.5	46
155	Sustainable Use of Phosphorus Through Bio-Based Recycling 2017 , 597-612		
154	In vitro bioconversion of chitin to pyruvate with thermophilic enzymes. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 296-301	3.3	23
153	A simple technology for phosphorus recovery using acid-treated concrete sludge. <i>Separation and Purification Technology</i> , 2016 , 165, 173-178	8.3	15
152	A mobile pilot-scale plant for in situ demonstration of phosphorus recovery from wastewater using amorphous calcium silicate hydrates. <i>Separation and Purification Technology</i> , 2016 , 170, 116-121	8.3	13
151	In vitro metabolic engineering for the salvage synthesis of NAD(.). <i>Metabolic Engineering</i> , 2016 , 35, 114-120		32
150	Redirection of the Reaction Specificity of a Thermophilic Acetolactate Synthase toward Acetaldehyde Formation. <i>PLoS ONE</i> , 2016 , 11, e0146146	3.7	
149	Greening the global phosphorus cycle: how green chemistry can help achieve planetary P sustainability. <i>Green Chemistry</i> , 2015 , 17, 2087-2099	10	122
148	Amorphous calcium silicate hydrates and their possible mechanism for recovering phosphate from wastewater. <i>Separation and Purification Technology</i> , 2015 , 144, 63-69	8.3	40
147	High-level production of (5S)-hydroxyhexane-2-one by two thermostable oxidoreductases in a whole-cell catalytic approach. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 121, 37-44		5
146	Assembly and multiple gene expression of thermophilic enzymes in <i>Escherichia coli</i> for in vitro metabolic engineering. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 189-96	4.9	45
145	Glycosylation analysis of an aggregated antibody produced by Chinese hamster ovary cells in bioreactor culture. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 639-44	3.3	21
144	Directed evolution of thermotolerant malic enzyme for improved malate production. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 147-152	3.3	18
143	Isolation and characterization of a thermotolerant ene reductase from <i>Geobacillus</i> sp. 30 and its heterologous expression in <i>Rhodococcus opacus</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5925-35	5.7	10

142	Phenotyping the quality of complex medium components by simple online-monitored shake flask experiments. <i>Microbial Cell Factories</i> , 2014 , 13, 149	6.4	24
141	In vitro conversion of glycerol to lactate with thermophilic enzymes. <i>Bioresources and Bioprocessing</i> , 2014 , 1,	5.2	14
140	A comparison between the human sense of smell and neural activity in the olfactory bulb of rats. <i>Chemical Senses</i> , 2014 , 39, 91-105	4.8	10
139	Generation of high-producing cell lines by overexpression of cell division cycle 25 homolog A in Chinese hamster ovary cells. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 116, 754-60	3.3	15
138	Use of hydrophobic bacterium <i>Rhodococcus rhodochrous</i> NBRC15564 expressed thermophilic alcohol dehydrogenases as whole-cell catalyst in solvent-free organic media. <i>Process Biochemistry</i> , 2013 , 48, 838-843	4.8	18
137	In vitro production of n-butanol from glucose. <i>Metabolic Engineering</i> , 2013 , 20, 84-91	9.7	77
136	Construction of an in vitro bypassed pyruvate decarboxylation pathway using thermostable enzyme modules and its application to N-acetylglutamate production. <i>Microbial Cell Factories</i> , 2013 , 12, 91	6.4	7
135	Rapid construction of transgene-amplified CHO cell lines by cell cycle checkpoint engineering. <i>BMC Proceedings</i> , 2013 , 7, O7	2.3	2
134	Direct conversion of glucose to malate by synthetic metabolic engineering. <i>Journal of Biotechnology</i> , 2013 , 164, 34-40	3.7	46
133	Novel technique for phosphorus recovery from aqueous solutions using amorphous calcium silicate hydrates (A-CSHs). <i>Water Research</i> , 2013 , 47, 2251-9	12.5	85
132	Rapid construction of transgene-amplified CHO cell lines by cell cycle checkpoint engineering. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 5731-41	5.7	14
131	Improved antibody production in Chinese hamster ovary cells by ATF4 overexpression. <i>Cytotechnology</i> , 2013 , 65, 993-1002	2.2	23
130	Overexpression of mutant cell division cycle 25 homolog B (CDC25B) enhances the efficiency of selection in Chinese hamster ovary cells. <i>Cytotechnology</i> , 2013 , 65, 1017-26	2.2	4
129	Development of a continuous bioconversion system using a thermophilic whole-cell biocatalyst. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1996-2001	4.8	21
128	Construction of membrane-anchoring fusion protein of <i>Thermococcus kodakaraensis</i> glycerol kinase and its application to repetitive batchwise reactions. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 521-5	3.3	2
127	Bioproduction of vanillin using an organic solvent-tolerant <i>Brevibacillus agri</i> 13. <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 555-63	5.7	24
126	Identification of the replication region of a 111-kb circular plasmid from <i>Rhodococcus opacus</i> B-4 by λ Red recombination-based deletion analysis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012 , 76, 1758-64	2.1	2
125	Fluorescence in situ hybridization using bacterial artificial chromosome (BAC) clones for the analysis of chromosome rearrangement in Chinese hamster ovary cells. <i>Methods</i> , 2012 , 56, 418-23	4.6	11

124	Synthetic metabolic engineering-a novel, simple technology for designing a chimeric metabolic pathway. <i>Microbial Cell Factories</i> , 2012 , 11, 120	6.4	69
123	Construction of BAC-based physical map and analysis of chromosome rearrangement in Chinese hamster ovary cell lines. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1357-67	4.9	53
122	Enhancement of sialylation on humanized IgG-like bispecific antibody by overexpression of α 2,6-sialyltransferase derived from Chinese hamster ovary cells. <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 69-80	5.7	36
121	Development of a whole-cell biocatalyst co-expressing P450 monooxygenase and glucose dehydrogenase for synthesis of epoxyhexane. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 357-67	5.7	27
120	Overproduction of YjbB reduces the level of polyphosphate in Escherichia coli: a hypothetical role of YjbB in phosphate export and polyphosphate accumulation. <i>FEMS Microbiology Letters</i> , 2011 , 320, 25-32	2.9	24
119	Feasibility of thermophilic adenosine triphosphate-regeneration system using Thermus thermophilus polyphosphate kinase. <i>Process Biochemistry</i> , 2011 , 46, 1747-1752	4.8	24
118	Thermal analysis for differentiating between oleaginous and non-oleaginous microorganisms. <i>Biochemical Engineering Journal</i> , 2011 , 57, 23-29	4.2	8
117	ATF4 over-expression increased IgG1 productivity in Chinese hamster ovary cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, O11	2.3	1
116	Chromosome identification and its application in Chinese hamster ovary cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, O8	2.3	2
115	Simultaneous thermogravimetry and differential thermal analysis for comparing burning characteristics between oleaginous and non-oleaginous microorganisms. <i>Thermochimica Acta</i> , 2011 , 517, 115-120	2.9	4
114	An artificial neural network approach for glomerular activity pattern prediction using the graph kernel method and the gaussian mixture functions. <i>Chemical Senses</i> , 2011 , 36, 413-24	4.8	7
113	Biomimetic control based on a model of chemotaxis in Escherichia coli. <i>Artificial Life</i> , 2010 , 16, 155-77	1.4	5
112	Electron microscopic analysis of heat-induced leakage of polyphosphate from a phoU mutant of Escherichia coli. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 865-8	2.1	6
111	?????????????. <i>Kagaku To Seibutsu</i> , 2010 , 48, 28-34	0	
110	Glycosylation pattern of humanized IgG-like bispecific antibody produced by recombinant CHO cells. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 535-42	5.7	23
109	Systematic screening of Escherichia coli single-gene knockout mutants for improving recombinant whole-cell biocatalysts. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 647-55	5.7	8
108	Bacterial phosphate metabolism and its application to phosphorus recovery and industrial bioprocesses. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 423-32	3.3	88
107	Identification and analysis of specific chromosomal region adjacent to exogenous Dhfr-amplified region in Chinese hamster ovary cell genome. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 504-13	3.3	13

106	Enhancement of recombinant enzyme activity in cpxA-deficient mutant of Escherichia coli. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 110, 403-7	3.3	2
105	Effects of palindrome structure on Dhfr amplification in Chinese hamster ovary cells. <i>Process Biochemistry</i> , 2010 , 45, 1845-1851	4.8	7
104	Production of 2-deoxyribose 5-phosphate from fructose to demonstrate a potential of artificial bio-synthetic pathway using thermophilic enzymes. <i>Journal of Biotechnology</i> , 2010 , 148, 204-7	3.7	23
103	Effect of cell-surface hydrophobicity on bacterial conversion of water-immiscible chemicals in two-liquid-phase culture systems. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, 116-20	3.3	14
102	Bacterial artificial chromosome library for genome-wide analysis of Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 986-94	4.9	29
101	Neuro-based olfactory model for artificial organoleptic tests. <i>Artificial Life and Robotics</i> , 2009 , 14, 474-476		
100	Characterization of an organic-solvent-tolerant <i>Brevibacillus agri</i> strain 13 able to stabilize solvent/water emulsion. <i>FEMS Microbiology Letters</i> , 2009 , 297, 225-33	2.9	22
99	A comparison of various methods to predict bacterial predilection for organic solvents used as reaction media. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 106, 357-62	3.3	29
98	<i>Pseudomonas aeruginosa</i> as a model microorganism for investigation of chemotactic behaviors in ecosystem. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 106, 1-7	3.3	75
97	Decrease in antithrombin III fucosylation by expressing GDP-fucose transporter siRNA in Chinese hamster ovary cells. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 106, 168-73	3.3	21
96	Expression of <i>Rhodococcus opacus</i> alkB genes in anhydrous organic solvents. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 106, 199-203	3.3	28
95	Overexpression of GADD34 enhances production of recombinant human antithrombin III in Chinese hamster ovary cells. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 106, 568-73	3.3	49
94	Stabilization of water-in-oil emulsion by <i>Rhodococcus opacus</i> B-4 and its application to biotransformation. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 767-73	5.7	22
93	A neural network model of the olfactory system of mice: computer simulation of the attention behavior of mice for some components in an odor. <i>Artificial Life and Robotics</i> , 2008 , 12, 75-80	0.6	2
92	A neural network model of the olfactory system of mice: simulated the tendency of attention behavior. <i>Artificial Life and Robotics</i> , 2008 , 13, 280-285	0.6	2
91	Improved production of recombinant human antithrombin III in Chinese hamster ovary cells by ATF4 overexpression. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 317-24	4.9	82
90	RECOVERY OF ARTIFICIAL PHOSPHORUS RESOURCE FROM WASTES. <i>Sociotechnica</i> , 2008 , 5, 106-113		4
89	Effect of mineral elements on phosphorus release from heated sewage sludge. <i>Bioresource Technology</i> , 2007 , 98, 2533-7	11	12

88	Utilization of hydrophobic bacterium <i>Rhodococcus opacus</i> B-4 as whole-cell catalyst in anhydrous organic solvents. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 761-7	5.7	34
87	Integrated biooxidation and acid dehydration process for monohydroxylation of aromatics. <i>Process Biochemistry</i> , 2007 , 42, 46-51	4.8	5
86	Inhibition of quorum sensing in <i>Pseudomonas aeruginosa</i> by N-acyl cyclopentylamides. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3183-8	4.8	144
85	Use of an <i>Escherichia coli</i> recombinant producing thermostable polyphosphate kinase as an ATP regenerator to produce fructose 1,6-diphosphate. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5676-8	4.8	45
84	An electrophysiological model of chemotactic response in <i>Paramecium</i> 2006 ,		2
83	Transcriptional analysis of the multicopy <i>hao</i> gene coding for hydroxylamine oxidoreductase in <i>Nitrosomonas</i> sp. strain ENI-11. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006 , 70, 1875-81	2.1	8
82	Identification and characterization of the chemotactic transducer in <i>Pseudomonas aeruginosa</i> PAO1 for positive chemotaxis to trichloroethylene. <i>Journal of Bacteriology</i> , 2006 , 188, 6700-2	3.5	33
81	Simulation for Chemotactic Response of <i>Paramecium</i> Using Virtual <i>Paramecium</i> . <i>Transactions of the Society of Instrument and Control Engineers</i> , 2006 , 42, 1252-1259	0.1	1
80	Isolation and characterization of benzene-tolerant <i>Rhodococcus opacus</i> strains. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 99, 378-82	3.3	98
79	Identification of chemosensory proteins for trichloroethylene in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bioscience and Bioengineering</i> , 2005 , 99, 396-402	3.3	41
78	A model of motor control of the nematode <i>C. elegans</i> with neuronal circuits. <i>Artificial Intelligence in Medicine</i> , 2005 , 35, 75-86	7.4	32
77	Development of a genetic transformation system for benzene-tolerant <i>Rhodococcus opacus</i> strains. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 99, 408-14	3.3	23
76	Isolation and characterization of solvent-tolerant <i>Pseudomonas putida</i> strain T-57, and its application to biotransformation of toluene to cresol in a two-phase (organic-aqueous) system. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005 , 32, 542-7	4.2	31
75	Expression of <i>Pseudomonas aeruginosa</i> <i>aer-2</i> , one of two aerotaxis transducer genes, is controlled by <i>RpoS</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 1533-5	3.5	10
74	A Dynamic Body Model of the Nematode <i>C. elegans</i> with Neural Oscillators. <i>Journal of Robotics and Mechatronics</i> , 2005 , 17, 318-326	0.7	9
73	Modeling of the Membrane Potential Change of <i>Paramecium</i> for Mechanical Stimuli. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2005 , 41, 351-357	0.1	4
72	Module-Based Analysis of Robustness Tradeoffs in the Heat Shock Response System. <i>PLoS Computational Biology</i> , 2005 , preprint, e59	5	
71	Effects of inorganic polyphosphate on the proteolytic and DNA-binding activities of Lon in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2004 , 279, 34406-10	5.4	53

70	ATP amplification for ultrasensitive bioluminescence assay: detection of a single bacterial cell. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004 , 68, 1216-20	2.1	30
69	The aerotaxis transducer gene aer, but not aer-2, is transcriptionally regulated by the anaerobic regulator ANR in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bioscience and Bioengineering</i> , 2004 , 97, 184-90	3.3	20
68	A laboratory-scale test of anaerobic digestion and methane production after phosphorus recovery from waste activated sludge. <i>Journal of Bioscience and Bioengineering</i> , 2004 , 97, 365-8	3.3	30
67	Chemotaxis proteins and transducers for aerotaxis in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2004 , 231, 247-52	2.9	63
66	Characterization of pEC01, a Novel Plasmid Required for Phosphate Taxis in <i>Enterobacter cloacae</i> IFO 3320. <i>Microbes and Environments</i> , 2004 , 19, 45-52	2.6	
65	Strictly polyphosphate-dependent glucokinase in a polyphosphate-accumulating bacterium, <i>Microlunatus phosphovorius</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 5654-6	3.5	38
64	Pilot Plant Tests on the Novel Process for Phosphorus Recovery from Municipal Wastewater. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 1143-1146	0.8	15
63	A method for screening remove polyphosphate-accumulating mutants which remove phosphate efficiently from synthetic wastewater. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 637-640	3.3	23
62	Mutants of the nematode <i>Caenorhabditis elegans</i> that are defective specifically in their attraction to cycloheximide. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 96, 149-53	3.3	2
61	Evaluation of bacterial aerotaxis for its potential use in detecting the toxicity of chemicals to microorganisms. <i>Journal of Biotechnology</i> , 2003 , 101, 11-8	3.7	26
60	A Method for Screening Polyphosphate-Accumulating Mutants Which Remove Phosphate Efficiently from Synthetic Wastewater. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 637-640	3.3	
59	Behavioral responses of the ciliated protozoan <i>Paramecium caudatum</i> to 2,4-dichlorophenoxyacetic acid and its analogues. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 93, 416-420	3.3	10
58	A simple method to release polyphosphate from activated sludge for phosphorus reuse and recycling. <i>Biotechnology and Bioengineering</i> , 2002 , 78, 333-8	4.9	96
57	The Effects of Cyclodextrins on Autoinducer Activities of Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002 , 44, 381-382		13
56	Cloning and characterization of extracellular metal protease gene of the algicidal marine bacterium <i>Pseudoalteromonas</i> sp. strain A28. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002 , 66, 1366-9	2.1	39
55	Accumulation of inorganic polyphosphate in phoU mutants of <i>Escherichia coli</i> and <i>Synechocystis</i> sp. strain PCC6803. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4107-10	4.8	74
54	Isolation and characterization of cbbL and cbbS genes encoding form I ribulose-1,5-bisphosphate carboxylase/oxygenase large and small subunits in <i>Nitrosomonas</i> sp. strain ENI-11. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002 , 66, 632-5	2.1	4
53	Bio-mimetic Control of Mobile Robots Based on a Model of Bacterial Chemotaxis.. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2002 , 68, 2687-2694 ³		

52	Emerging Chemotaxis of Virtual Bacteria using Genetic Algorithm. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2002 , 122, 201-207	0.1	1
51	The Synthesis of Optically Pure Enantiomers of N-Acyl-homoserine Lactone Autoinducers and Their Analogues. <i>Chemistry Letters</i> , 2001 , 30, 314-315	1.7	32
50	Isolation and characterization of the <i>Enterobacter cloacae</i> cheR mutant defective in phosphate taxis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001 , 65, 456-8	2.1	3
49	Role of inorganic polyphosphate in promoting ribosomal protein degradation by the Lon protease in <i>E. coli</i> . <i>Science</i> , 2001 , 293, 705-8	33.3	297
48	Chemotaxis of the nematode <i>Caenorhabditis elegans</i> toward cycloheximide and quinine hydrochloride. <i>Journal of Bioscience and Bioengineering</i> , 2001 , 91, 322-4	3.3	10
47	Mutational analysis of the multicopy hao gene coding for hydroxylamine oxidoreductase in <i>Nitrosomonas</i> sp. strain ENI-11. <i>Bioscience, Biotechnology and Biochemistry</i> , 2000 , 64, 1754-7	2.1	5
46	Evaluation of phosphate removal from water by immobilized phosphate-binding protein PstS. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 90, 688-690	3.3	8
45	Identification and characterization of two chemotactic transducers for inorganic phosphate in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 3400-4	3.5	81
44	Involvement of an extracellular protease in algicidal activity of the marine bacterium <i>Pseudoalteromonas</i> sp. strain A28. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 4334-9	4.8	161
43	Physical map location of the multicopy genes coding for ammonia monooxygenase and hydroxylamine oxidoreductase in the ammonia-oxidizing bacterium <i>Nitrosomonas</i> sp. strain ENI-11. <i>Journal of Bacteriology</i> , 2000 , 182, 825-8	3.5	14
42	Evaluation of phosphate removal from water by immobilized phosphate-binding protein PstS. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 90, 688-90	3.3	1
41	Isolation and characterization of two cryptic plasmids in the ammonia-oxidizing bacterium <i>Nitrosomonas</i> sp. strain ENI-11. <i>Journal of Bacteriology</i> , 1999 , 181, 3375-81	3.5	23
40	Cloning and characterization of chemotaxis genes in <i>Pseudomonas aeruginosa</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1999 , 63, 155-61	2.1	62
39	Cloning and characterization of <i>Pseudomonas putida</i> genes encoding the phosphate-specific transport system. <i>Journal of Bioscience and Bioengineering</i> , 1999 , 87, 273-9	3.3	18
38	Molecular Breeding of Microbes and Environmental Biotechnology.. <i>Microbes and Environments</i> , 1998 , 13, 95-99	2.6	
37	Enhanced utilization of phosphonate and phosphite by <i>Klebsiella aerogenes</i> . <i>Applied and Environmental Microbiology</i> , 1998 , 64, 3754-8	4.8	27
36	Development of a genetic transformation system for an alga-lysing bacterium. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 2061-4	4.8	27
35	Genetic identification of chemotactic transducers for amino acids in <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 1997 , 143 (Pt 10), 3223-3229	2.9	108

34	Chemotactic Transducer-type Protein Family in <i>Pseudomonas aeruginosa</i> . <i>Nippon Nogeikagaku Kaishi</i> , 1997 , 71, 902-905		
33	Bacterial phosphonate degradation, phosphite oxidation and polyphosphate accumulation*. <i>Studies in Environmental Science</i> , 1997 , 611-620		
32	Molecular analysis of the phosphate-specific transport (pst) operon of <i>Pseudomonas aeruginosa</i> . <i>Molecular Genetics and Genomics</i> , 1996 , 250, 692-8		37
31	Bacterial phosphonate degradation, phosphite oxidation and polyphosphate accumulation. <i>Resources, Conservation and Recycling</i> , 1996 , 18, 125-134	11.9	38
30	Optimal operation of bioreactor system developed for the treatment of chromate wastewater using enterobacter cloacae HO-1. <i>Water Science and Technology</i> , 1996 , 34, 173-182	2.2	11
29	Cloning, sequence and characterization of the polyphosphate kinase-encoding gene (ppk) of <i>Klebsiella aerogenes</i> . <i>Gene</i> , 1993 , 137, 237-42	3.8	65
28	Kinetics and modeling of hexavalent chromium reduction in <i>Enterobacter cloacae</i> . <i>Biotechnology and Bioengineering</i> , 1993 , 41, 129-33	4.9	46
27	Bacterial motility as a potential tool for rapid toxicity assays. <i>Biotechnology Letters</i> , 1993 , 7, 457-462		8
26	Chemotaxis away from thiocyanic and isothiocyanic esters in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 1993 , 113, 63-6	2.9	23
25	Rapid method for analyzing bacterial behavioral responses to chemical stimuli. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 2250-4	4.8	51
24	Membrane-bound respiratory system of <i>Enterobacter cloacae</i> strain HO1 grown anaerobically with chromate. <i>FEMS Microbiology Letters</i> , 1991 , 78, 11-16	2.9	41
23	Membrane-bound respiratory system of <i>Enterobacter cloacae</i> strain HO1 grown anaerobically with chromate. <i>FEMS Microbiology Letters</i> , 1991 , 62, 11-5	2.9	7
22	Biooxidation of a synthetic waste by a microbial film grown on the liquid surface in a shallow flow reactor. <i>Applied Biochemistry and Biotechnology</i> , 1990 , 26, 139-49	3.2	
21	Chromate-resistance in a chromate-reducing strain of <i>Enterobacter cloacae</i> . <i>FEMS Microbiology Letters</i> , 1990 , 67, 85-88	2.9	23
20	Effects of oxygen stress on chromate reduction in <i>Enterobacter cloacae</i> strain HO1. <i>Journal of Bioscience and Bioengineering</i> , 1990 , 69, 67-69		12
19	Bacterial reduction of toxic hexavalent chromium using a fed-batch culture of <i>Enterobacter cloacae</i> strain HO1. <i>Journal of Bioscience and Bioengineering</i> , 1990 , 69, 365-367		31
18	A kinetic study of acetic acid production by liquid-surface cultures of <i>Acetobacter aceti</i> . <i>Applied Microbiology and Biotechnology</i> , 1990 , 33, 259-263	5.7	9
17	Bacterial Reduction of Hexavalent Chromium: Kinetic Aspects of Chromate Reduction by <i>Enterobacter cloacae</i> HO1. <i>Biocatalysis</i> , 1990 , 4, 227-235		22

16	Application of multi-stage continuous culture for estimating net rate of plasmid transfer.. <i>Journal of General and Applied Microbiology</i> , 1990 , 36, 279-282	1.5	3
15	Enhancement of acetic acid production in a high cell-density culture of <i>Acetobacter aceti</i> . <i>Journal of Bioscience and Bioengineering</i> , 1989 , 68, 315-319		21
14	Effects of dissolved oxygen and acetic acid concentrations on acetic acid production in continuous culture of <i>Acetobacter aceti</i> . <i>Journal of Bioscience and Bioengineering</i> , 1989 , 68, 96-101		37
13	Acetic acid production using a fermentor equipped with a hollow fiber filter module. <i>Biotechnology and Bioengineering</i> , 1989 , 33, 918-23	4.9	32
12	High-rate acetic acid production in a shallow flow bioreactor. <i>Applied Microbiology and Biotechnology</i> , 1989 , 30, 559	5.7	20
11	Factors affecting chromate reduction in <i>Enterobacter cloacae</i> strain HO1. <i>Applied Microbiology and Biotechnology</i> , 1989 , 31-31, 567-570	5.7	46
10	Effects of nutrient-poor and anaerobic conditions on maintenance of R100-1 and RSF2124 plasmids in model populations of <i>Escherichia coli</i> .. <i>Bulletin of Japanese Society of Microbial Ecology</i> , 1989 , 4, 67-75		1
9	A stochastic approach to the kinetics of conjugative transfer of bacterial plasmids.. <i>Journal of Chemical Engineering of Japan</i> , 1989 , 22, 606-611	0.8	1
8	Isolation and Characterization of an <i>Enterobacter cloacae</i> Strain That Reduces Hexavalent Chromium under Anaerobic Conditions. <i>Applied and Environmental Microbiology</i> , 1989 , 55, 1665-9	4.8	217
7	Anaerobic release of phosphate from activated sludge: Its response to physical and chemical stresses.. <i>Journal of General and Applied Microbiology</i> , 1989 , 35, 407-412	1.5	
6	Plasmid-determined resistance to chromate in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 1988 , 56, 173-176	2.9	38
5	Inhibitory effect of ethanol on ethanol fermentation.. <i>Journal of General and Applied Microbiology</i> , 1987 , 33, 421-428	1.5	6
4	Ethanol production in horizontal bioreactor. <i>Applied Microbiology and Biotechnology</i> , 1986 , 24, 97-101	5.7	13
3	Ethanol production in horizontal bioreactor. <i>Applied Microbiology and Biotechnology</i> , 1986 , 24, 97-101	5.7	1
2	Uptake and release of phosphate by a pure culture of <i>Acinetobacter calcoaceticus</i> . <i>Water Research</i> , 1985 , 19, 1587-1594	12.5	87
1	Phosphate permeability in cells of <i>Chlorella ellipsoidea</i> . <i>Biotechnology Letters</i> , 1979 , 1, 245-250	3	5