

Satoshi Tsuneda

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235
papers

7,483
citations

50
h-index

77
g-index

244
ext. papers

8,204
ext. citations

4.4
avg. IF

5.71
L-index

#	Paper	IF	Citations
235	Extracellular polymeric substances responsible for bacterial adhesion onto solid surface. <i>FEMS Microbiology Letters</i> , 2003 , 223, 287-92	2.9	388
234	High Resolution X-ray Photoelectron Spectroscopy Measurements of Octadecanethiol Self-Assembled Monolayers on Au(111). <i>Langmuir</i> , 1998 , 14, 2092-2096	4	225
233	Simultaneous nitrification and denitrification by controlling vertical and horizontal microenvironment in a membrane-aerated biofilm reactor. <i>Journal of Biotechnology</i> , 2003 , 100, 23-32	3.7	167
232	Nitrogen removal characteristics and biofilm analysis of a membrane-aerated biofilm reactor applicable to high-strength nitrogenous wastewater treatment. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 170-8	3.3	156
231	Anaerobic/oxic/anoxic granular sludge process as an effective nutrient removal process utilizing denitrifying polyphosphate-accumulating organisms. <i>Water Research</i> , 2006 , 40, 2303-10	12.5	152
230	Identification of acetate- or methanol-assimilating bacteria under nitrate-reducing conditions by stable-isotope probing. <i>Microbial Ecology</i> , 2006 , 52, 253-66	4.4	149
229	Characterization of nitrifying granules produced in an aerobic upflow fluidized bed reactor. <i>Water Research</i> , 2003 , 37, 4965-73	12.5	146
228	High nitrogen removal performance at moderately low temperature utilizing anaerobic ammonium oxidation reactions. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 103, 486-90	3.3	143
227	Simultaneous nitrogen and phosphorus removal using denitrifying phosphate-accumulating organisms in a sequencing batch reactor. <i>Biochemical Engineering Journal</i> , 2006 , 27, 191-196	4.2	136
226	Nitrogen removal performance using anaerobic ammonium oxidation at low temperatures. <i>FEMS Microbiology Letters</i> , 2008 , 282, 32-8	2.9	130
225	Characterization of denitrifying phosphate-accumulating organisms cultivated under different electron acceptor conditions using polymerase chain reaction-denaturing gradient gel electrophoresis assay. <i>Water Research</i> , 2002 , 36, 403-12	12.5	122
224	Behavior of polymeric substrates in an aerobic granular sludge system. <i>Water Research</i> , 2010 , 44, 5929-38	12.5	119
223	Low temperature decreases the phylogenetic diversity of ammonia-oxidizing archaea and bacteria in aquarium biofiltration systems. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 894-900	4.8	119
222	Bacterial adhesion to and viability on positively charged polymer surfaces. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 3575-3583	2.9	117
221	Growth characteristic of anaerobic ammonium-oxidizing bacteria in an anaerobic biological filtrated reactor. <i>Applied Microbiology and Biotechnology</i> , 2006 , 70, 47-52	5.7	116
220	Strengthening of the intestinal epithelial tight junction by <i>Bifidobacterium bifidum</i> . <i>Physiological Reports</i> , 2015 , 3, e12327	2.6	115
219	Effects of carbon source on denitrification efficiency and microbial community structure in a saline wastewater treatment process. <i>Water Research</i> , 2008 , 42, 3709-18	12.5	109

218	High-throughput processing of proteins using a porous and tentacle anion-exchange membrane. <i>Journal of Chromatography A</i> , 1995 , 689, 211-218	4.5	102
217	Modeling of membrane-aerated biofilm: Effects of C/N ratio, biofilm thickness and surface loading of oxygen on feasibility of simultaneous nitrification and denitrification. <i>Biochemical Engineering Journal</i> , 2007 , 37, 98-107	4.2	97
216	A reduction-triggered fluorescence probe for sensing nucleic acids. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1219-26	6.3	96
215	Soft particle analysis of bacterial cells and its interpretation of cell adhesion behaviors in terms of DLVO theory. <i>Colloids and Surfaces B: Biointerfaces</i> , 2001 , 22, 149-157	6	94
214	Rhodamine-based fluorogenic probe for imaging biological thiol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2246-9	2.9	92
213	Microbial community structure in autotrophic nitrifying granules characterized by experimental and simulation analyses. <i>Environmental Microbiology</i> , 2010 , 12, 192-206	5.2	90
212	Effect of salinity on nitrous oxide emission in the biological nitrogen removal process for industrial wastewater. <i>Journal of Hazardous Materials</i> , 2005 , 119, 93-8	12.8	88
211	Hollow-fiber membrane chamber as a device for in situ environmental cultivation. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 3826-33	4.8	82
210	The effect of surface charge property on Escherichia coli initial adhesion and subsequent biofilm formation. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1745-54	4.9	78
209	Ammonium removal performance of anaerobic ammonium-oxidizing bacteria immobilized in polyethylene glycol gel carrier: anammox bacteria immobilized in gel carrier. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 1457-65	5.7	78
208	Reduction-triggered fluorescent amplification probe for the detection of endogenous RNAs in living human cells. <i>Bioconjugate Chemistry</i> , 2009 , 20, 1026-36	6.3	77
207	Redox-stratification controlled biofilm (ReSCoBi) for completely autotrophic nitrogen removal: the effect of co- versus counter-diffusion on reactor performance. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 40-51	4.9	74
206	Binding of lysozyme onto a cation-exchange microporous membrane containing tentacle-type grafted polymer branches. <i>Biotechnology Progress</i> , 1994 , 10, 76-81	2.8	71
205	Metal collection using chelating hollow fiber membrane. <i>Journal of Membrane Science</i> , 1991 , 58, 221-234	6.6	70
204	High-rate denitrification using polyethylene glycol gel carriers entrapping heterotrophic denitrifying bacteria. <i>Water Research</i> , 2012 , 46, 4941-8	12.5	69
203	Influence of extracellular polymers on electrokinetic properties of heterotrophic bacterial cells examined by soft particle electrophoresis theory. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 29, 181-188	6	69
202	Nitrite oxidation kinetics of two Nitrospira strains: The quest for competition and ecological niche differentiation. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 581-589	3.3	65
201	Real-time quantitative LAMP (loop-mediated isothermal amplification of DNA) as a simple method for monitoring ammonia-oxidizing bacteria. <i>Journal of Biotechnology</i> , 2006 , 125, 484-91	3.7	65

200	Salinity decreases nitrite reductase gene diversity in denitrifying bacteria of wastewater treatment systems. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 3152-7	4.8	64
199	Surface-Conditioning Effect of Gold Substrates on Octadecanethiol Self-Assembled Monolayer Growth. <i>Langmuir</i> , 1997 , 13, 4638-4643	4	61
198	Meta-Analysis of Fecal Microbiota and Metabolites in Experimental Colitic Mice during the Inflammatory and Healing Phases. <i>Nutrients</i> , 2017 , 9,	6.7	59
197	Anaerobic ammonium oxidation (anammox) irreversibly inhibited by methanol. <i>Applied Microbiology and Biotechnology</i> , 2008 , 81, 379-85	5.7	59
196	Molecular analysis of halophilic bacterial community for high-rate denitrification of saline industrial wastewater. <i>Applied Microbiology and Biotechnology</i> , 2006 , 72, 182-189	5.7	58
195	Nitrification of landfill leachate using immobilized nitrifying bacteria at low temperatures. <i>Biochemical Engineering Journal</i> , 2007 , 37, 49-55	4.2	57
194	Elucidation of dominant effect on initial bacterial adhesion onto polymer surfaces prepared by radiation-induced graft polymerization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 43, 99-107	6	57
193	Development of osteogenic cell sheets for bone tissue engineering applications. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1507-15	3.9	56
192	Metabolic behavior of denitrifying phosphate-accumulating organisms under nitrate and nitrite electron acceptor conditions. <i>Journal of Bioscience and Bioengineering</i> , 2001 , 92, 442-446	3.3	56
191	Isolation of Nitrospira belonging to sublineage II from a wastewater treatment plant. <i>Microbes and Environments</i> , 2013 , 28, 346-53	2.6	53
190	Water/acetone permeability of porous hollow-fiber membrane containing diethylamino groups on the grafted polymer branches.. <i>Journal of Membrane Science</i> , 1992 , 71, 1-12	9.6	53
189	Ion exchange of lysozyme during permeation across a microporous sulfopropyl-group-containing hollow fiber. <i>Biotechnology Progress</i> , 1993 , 9, 193-8	2.8	53
188	Ring-opening reaction of poly-GMA chain grafted onto a porous membrane. <i>Journal of Membrane Science</i> , 1996 , 117, 33-38	9.6	52
187	Identification of the bacterial community involved in methane-dependent denitrification in activated sludge using DNA stable-isotope probing. <i>FEMS Microbiology Ecology</i> , 2008 , 64, 494-506	4.3	50
186	Transformation of phosphorus and relevant intracellular compounds by a phosphorus-accumulating enrichment culture in the presence of both the electron acceptor and electron donor. <i>Biotechnology and Bioengineering</i> , 2002 , 79, 83-93	4.9	50
185	Technique for quantitative detection of specific DNA sequences using alternately binding quenching probe competitive assay combined with loop-mediated isothermal amplification. <i>Analytical Chemistry</i> , 2007 , 79, 5608-13	7.8	49
184	Significance of cell electrokinetic properties determined by soft-particle analysis in bacterial adhesion onto a solid surface. <i>Journal of Colloid and Interface Science</i> , 2004 , 279, 410-7	9.3	49
183	Novel Ion-Exchange Membranes for Electrodialysis Prepared by Radiation-Induced Graft Polymerization. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3659-3663	3.9	46

182	Direct detection by in situ PCR of the amoA gene in biofilm resulting from a nitrogen removal process. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 5261-6	4.8	45
181	Reduction-triggered red fluorescent probes for dual-color detection of oligonucleotide sequences. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 671-7	3.9	44
180	Microbial ecology of nitrifying bacteria in wastewater treatment process examined by fluorescence in situ hybridization. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 90, 234-240	3.3	44
179	Transitions in oral and intestinal microflora composition and innate immune receptor-dependent stimulation during mouse development. <i>Infection and Immunity</i> , 2010 , 78, 639-50	3.7	41
178	Highly Efficient Enzyme Recovery Using a Porous Membrane with Immobilized Tentacle Polymer Chains. <i>Bio/technology</i> , 1995 , 13, 795-797		41
177	Alkyl Chain Length Effect on Growth Kinetics of n-Alkanethiol Self-Assembled Monolayers on Gold Studied by X-Ray Photoelectron Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L1710-L1713 ⁴	1.4	39
176	Radiation-induced graft polymerization is the key to develop high-performance functional materials for protein purification. <i>Radiation Physics and Chemistry</i> , 1999 , 54, 517-525	2.5	39
175	Characterization of denitrifying polyphosphate-accumulating organisms in activated sludge based on nitrite reductase gene. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 99, 403-7	3.3	38
174	Synthesis, structure, and biological activity of dumbbell-shaped nanocircular RNAs for RNA interference. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2082-92	6.3	37
173	New monitoring approach for metabolic dynamics in microbial ecosystems using stable-isotope-labeling technologies. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 110, 87-93	3.3	37
172	First full-scale nitritation-anammox plant using gel entrapment technology for ammonia plant effluent. <i>Biochemical Engineering Journal</i> , 2017 , 122, 115-122	4.2	36
171	Complete autotrophic denitrification in a single reactor using nitritation and anammox gel carriers. <i>Bioresource Technology</i> , 2013 , 147, 96-101	11	36
170	Sequencing batch membrane biofilm reactor for simultaneous nitrogen and phosphorus removal: novel application of membrane-aerated biofilm. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 730-9	4.9	36
169	High-speed recovery of antimony using chelating porous hollow-fiber membrane. <i>Journal of Membrane Science</i> , 2003 , 214, 275-281	9.6	36
168	Isolation of sublineage I Nitrospira by a novel cultivation strategy. <i>Environmental Microbiology</i> , 2014 , 16, 3030-40	5.2	35
167	Molecular diversity of bacterial chitinases in arable soils and the effects of environmental factors on the chitinolytic bacterial community. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 473-480	7.5	35
166	Simple prediction of oxygen penetration depth in biofilms for wastewater treatment. <i>Biochemical Engineering Journal</i> , 2004 , 19, 61-68	4.2	35
165	Influence of growth phase on bacterial cell electrokinetic characteristics examined by soft particle electrophoresis theory. <i>Journal of Colloid and Interface Science</i> , 2003 , 264, 565-8	9.3	34

164	Preparation of microfiltration membranes containing anion-exchange groups. <i>Journal of Membrane Science</i> , 1993 , 76, 209-218	9.6	33
163	Reproducible subcutaneous transplantation of cell sheets into recipient mice. <i>Nature Protocols</i> , 2011 , 6, 1053-9	18.8	32
162	Microbial community analysis in the denitrification process of saline-wastewater by denaturing gradient gel electrophoresis of PCR-amplified 16S rDNA and the cultivation method. <i>Journal of Bioscience and Bioengineering</i> , 2001 , 92, 346-353	3.3	31
161	Inhibition of hepatitis C virus NS3 helicase by manoalide. <i>Journal of Natural Products</i> , 2012 , 75, 650-4	4.9	30
160	Retrieval of entire genes from environmental DNA by inverse PCR with pre-amplification of target genes using primers containing locked nucleic acids. <i>Environmental Microbiology</i> , 2008 , 10, 978-87	5.2	30
159	Formation and characteristics of nitrifying biofilm on a membrane modified with positively-charged polymer chains. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000 , 18, 105-112	6	30
158	Attachment of sulfonic acid groups to various shapes of polyethylene, polypropylene and polytetrafluoroethylene by radiation-induced graft polymerization. <i>Reactive & Functional Polymers</i> , 1993 , 21, 187-191		30
157	Hydrodynamic Evaluation of Three-Dimensional Adsorption of Protein to a Polymer Chain Grafted onto a Porous Substrate. <i>Journal of Colloid and Interface Science</i> , 1995 , 176, 95-100	9.3	29
156	Fluorescence detection of intron lariat RNA with reduction-triggered fluorescent probes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12020-3	16.4	28
155	Universal quenching probe system: flexible, specific, and cost-effective real-time polymerase chain reaction method. <i>Analytical Chemistry</i> , 2009 , 81, 5678-85	7.8	28
154	Modeling the nutrient removal process in aerobic granular sludge system by coupling the reactor- and granule-scale models. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 53-64	4.9	27
153	Selective isolation of ammonia-oxidizing bacteria from autotrophic nitrifying granules by applying cell-sorting and sub-culturing of microcolonies. <i>Frontiers in Microbiology</i> , 2015 , 6, 1159	5.7	27
152	Real-time monitoring of RNA helicase activity using fluorescence resonance energy transfer in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 131-6	3.4	27
151	Rapid DNA chemical ligation for amplification of RNA and DNA signal. <i>Bioconjugate Chemistry</i> , 2008 , 19, 327-33	6.3	27
150	Enrichment and Physiological Characterization of a Cold-Adapted Nitrite-Oxidizing <i>Nitrotoga</i> sp. from an Eelgrass Sediment. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	26
149	Genomic Analysis of Two Phylogenetically Distinct Species Reveals Their Genomic Plasticity and Functional Diversity. <i>Frontiers in Microbiology</i> , 2017 , 8, 2637	5.7	26
148	JAK2V617F mutation status and allele burden in classical Ph-negative myeloproliferative neoplasms in Japan. <i>International Journal of Hematology</i> , 2014 , 99, 625-34	2.3	26
147	Diversity of nitrite reductase genes in " <i>Candidatus Accumulibacter phosphatis</i> "-dominated cultures enriched by flow-cytometric sorting. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5331-7	4.8	26

146	Temperature dependence for anammox bacteria enriched from freshwater sediments. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 114, 429-34	3.3	25
145	Quantitative method for specific nucleic acid sequences using competitive polymerase chain reaction with an alternately binding probe. <i>Analytical Chemistry</i> , 2007 , 79, 974-9	7.8	25
144	Removal of Antimony (III) Using Polyol-Ligand-Containing Porous Hollow-Fiber Membranes. <i>Separation Science and Technology</i> , 2004 , 39, 3011-3022	2.5	25
143	Selective enrichment of two different types of Nitrospira-like nitrite-oxidizing bacteria from a wastewater treatment plant. <i>Microbes and Environments</i> , 2013 , 28, 236-43	2.6	24
142	Hydrolysis of Methyl Acetate and Sucrose in SO ₃ H-Group-Containing Grafted Polymer Chains Prepared by Radiation-Induced Graft Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 2215-2219	3.9	24
141	Photoactivatable fluorescein derivatives with azidomethyl caging groups for tracing oligonucleotides in living human cells. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 2309-11	3.9	22
140	Recovery of Sb(V) using a functional-ligand-containing porous hollow-fiber membrane prepared by radiation-induced graft polymerization. <i>Hydrometallurgy</i> , 2006 , 81, 190-196	4	22
139	High-rate nitrification using aerobic granular sludge. <i>Water Science and Technology</i> , 2006 , 53, 147-54	2.2	20
138	Long-term monitoring of the succession of a microbial community in activated sludge from a circulation flush toilet as a closed system. <i>FEMS Microbiology Ecology</i> , 2006 , 55, 459-70	4.3	20
137	Simple Introduction of Sulfonic Acid Group onto Polyethylene by Radiation-Induced Cograftering of Sodium Styrenesulfonate with Hydrophilic Monomers. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 1464-1470	3.9	20
136	Effect of Lipopolysaccharide on the Progression of Non-Alcoholic Fatty Liver Disease in High Caloric Diet-Fed Mice. <i>Scandinavian Journal of Immunology</i> , 2016 , 83, 109-18	3.4	20
135	End-Sealed High Aspect Ratio Hollow Nanotubes Encapsulating an Anticancer Drug: Torpedo-Shaped Peptidic Nanocapsules. <i>ACS Nano</i> , 2019 , 13, 305-312	16.7	20
134	High-throughput screening assay of hepatitis C virus helicase inhibitors using fluorescence-quenching phenomenon. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 379, 1054-9	3.4	19
133	Microbial population dynamics and community structure during the formation of nitrifying granules to treat ammonia-rich inorganic wastewater. <i>Microbes and Environments</i> , 2010 , 25, 164-70	2.6	19
132	Structure of polyol-ligand-containing polymer brush on the porous membrane for antimony(III) binding. <i>Journal of Membrane Science</i> , 2004 , 236, 65-71	9.6	19
131	Dynamic modeling and simulation of a three-phase fluidized bed batch process for wastewater treatment. <i>Process Biochemistry</i> , 2002 , 38, 599-604	4.8	19
130	Evaluation of kinetic parameters of biochemical reaction in three-phase fluidized bed biofilm reactor for wastewater treatment. <i>Biochemical Engineering Journal</i> , 2000 , 5, 165-171	4.2	19
129	Bacterial metabolites directly modulate farnesoid X receptor activity. <i>Nutrition and Metabolism</i> , 2015 , 12, 48	4.6	18

128	Identification of Hydroxyanthraquinones as Novel Inhibitors of Hepatitis C Virus NS3 Helicase. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 18439-53	6.3	18
127	The potential of stem cells in adult tissues representative of the three germ layers. <i>Tissue Engineering - Part A</i> , 2011 , 17, 607-15	3.9	18
126	Monitoring the microbial population dynamics at the start-up stage of wastewater treatment reactor by terminal restriction fragment length polymorphism analysis based on 16S rDNA and rRNA gene sequences. <i>Journal of Bioscience and Bioengineering</i> , 2004 , 98, 425-8	3.3	18
125	Fluorescence Study on the Conformational Change of an Amino Group-Containing Polymer Chain Grafted onto a Polyethylene Microfiltration Membrane. <i>Macromolecules</i> , 1998 , 31, 366-370	5.5	18
124	Enrichment of Comammox and Nitrite-Oxidizing From Acidic Soils. <i>Frontiers in Microbiology</i> , 2020 , 11, 1737	5.7	18
123	Ecophysiology and Comparative Genomics of Ms1 Isolated from Autotrophic Nitrifying Granules of Wastewater Treatment Bioreactor. <i>Frontiers in Microbiology</i> , 2016 , 7, 1869	5.7	18
122	Skewed megakaryopoiesis in human induced pluripotent stem cell-derived haematopoietic progenitor cells harbouring calreticulin mutations. <i>British Journal of Haematology</i> , 2018 , 181, 791-802	4.5	15
121	High-rate nitrification of electronic industry wastewater by using nitrifying granules. <i>Water Science and Technology</i> , 2017 , 76, 3171-3180	2.2	15
120	Inhibition of hepatitis C virus replication and viral helicase by ethyl acetate extract of the marine feather star <i>Alloeocomatella polycladia</i> . <i>Marine Drugs</i> , 2012 , 10, 744-61	6	15
119	Affinity capillary electrophoresis with a DNA-nanoparticle conjugate as a new tool for genotyping. <i>Journal of Chromatography A</i> , 2006 , 1109, 127-31	4.5	15
118	Kinetic model for dynamic response of three-phase fluidized bed biofilm reactor for wastewater treatment. <i>Biochemical Engineering Journal</i> , 2002 , 10, 31-37	4.2	15
117	Kinetics of tetrachloroethylene (PCE) gas degradation and byproducts formation during UV/H ₂ O ₂ treatment in UV-bubble column reactor. <i>Chemical Engineering Science</i> , 2001 , 56, 6195-6203	4.4	15
116	Selection and dominance mechanisms of denitrifying phosphate-accumulating organisms in biological phosphate removal process. <i>Biotechnology Letters</i> , 2001 , 23, 2005-2008	3	15
115	Modeling and experimental study on the anaerobic/aerobic/anoxic process for simultaneous nitrogen and phosphorus removal: The effect of acetate addition. <i>Process Biochemistry</i> , 2008 , 43, 605-614 ⁸	4.8	14
114	Esterification of lauric acid using lipase immobilized in the micropores of a hollow-fiber membrane. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2006 , 83, 209-213	1.8	14
113	Quantification of genetically modified soybean by quenching probe polymerase chain reaction. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 2535-40	5.7	14
112	Rapid Recovery of Bacterial Cells from a Stable Dispersion by Heterocoagulation to a Fibrous Collector. <i>Journal of Colloid and Interface Science</i> , 2001 , 243, 109-115	9.3	14
111	Physical enrichment of uncultured <i>Accumulibacter</i> and <i>Nitrospira</i> from activated sludge by unlabeled cell sorting technique. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 475-81	3.3	13

110	Psammaplin A inhibits hepatitis C virus NS3 helicase. <i>Journal of Natural Medicines</i> , 2013 , 67, 765-72	3.3	13
109	Alternately binding probe competitive PCR as a simple, cost-effective, and accurate quantification method for JAK2V617F allele burden in myeloproliferative neoplasms. <i>Leukemia Research</i> , 2011 , 35, 1632-6	2.7	13
108	Adsorption of bovine serum albumin to a polymer brush prepared by atom-transfer radical polymerization in a porous inorganic membrane. <i>Journal of Porous Materials</i> , 2007 , 14, 387-391	2.4	13
107	Expression of amoA mRNA in wastewater treatment processes examined by competitive RT-PCR. <i>Journal of Biotechnology</i> , 2004 , 111, 111-20	3.7	13
106	Three-Dimensional Immobilization of Bacterial Cells with a Fibrous Network and Its Application in a High-Rate Fixed-Bed Nitrifying Bioreactor.. <i>Journal of Chemical Engineering of Japan</i> , 2002 , 35, 68-75	0.8	13
105	A rapid collection of yet unknown ammonia oxidizers in pure culture from activated sludge. <i>Water Research</i> , 2017 , 108, 169-178	12.5	12
104	Identification and biochemical characterization of halisulfate 3 and suvanine as novel inhibitors of hepatitis C virus NS3 helicase from a marine sponge. <i>Marine Drugs</i> , 2014 , 12, 462-76	6	12
103	Characterization of the microbial community in the anaerobic/oxic/anoxic process combined with sludge ozonation and phosphorus adsorption. <i>Journal of Water and Environment Technology</i> , 2009 , 7, 155-162	1.1	12
102	Fluorescence generation from tandem repeats of a malachite green RNA aptamer using rolling circle transcription. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4562-5	2.9	12
101	Characterization of MazF-Mediated Sequence-Specific RNA Cleavage in <i>Pseudomonas putida</i> Using Massive Parallel Sequencing. <i>PLoS ONE</i> , 2016 , 11, e0149494	3.7	12
100	Mathematical modeling of dormant cell formation in growing biofilm. <i>Frontiers in Microbiology</i> , 2015 , 6, 534	5.7	11
99	Modeling of stem cell dynamics in human colonic crypts in silico. <i>Journal of Gastroenterology</i> , 2014 , 49, 263-9	6.9	11
98	DNA microarray mediated transcriptional profiling of <i>Nitrosomonas europaea</i> in response to linear alkylbenzene sulfonates. <i>FEMS Microbiology Letters</i> , 2008 , 282, 166-73	2.9	11
97	Successful enrichment of low-abundant comammox <i>Nitrospira</i> from nitrifying granules under ammonia-limited conditions. <i>FEMS Microbiology Letters</i> , 2020 , 367,	2.9	10
96	Unique transcriptional profile of native persisters in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2018 , 125, 15-22	3.3	10
95	Detection of pre-mRNA splicing in vitro by an RNA-templated fluorogenic reaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7248-51	2.9	10
94	Subcutaneous transplantation of autologous oral mucosal epithelial cell sheets fabricated on temperature-responsive culture dishes. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 1088-94	5.4	10
93	Effects of acetate and nitrite addition on fraction of denitrifying phosphate-accumulating organisms and nutrient removal efficiency in anaerobic/aerobic/anoxic process. <i>Bioprocess and Biosystems Engineering</i> , 2006 , 29, 305-13	3.7	10

92	Conditional Hfq Association with Small Noncoding RNAs in <i>Pseudomonas aeruginosa</i> Revealed through Comparative UV Cross-Linking Immunoprecipitation Followed by High-Throughput Sequencing. <i>MSystems</i> , 2019 , 4,	7.6	10
91	AAU-Specific RNA Cleavage Mediated by MazF Toxin Endoribonuclease Conserved in <i>Nitrosomonas europaea</i> . <i>Toxins</i> , 2016 , 8,	4.9	10
90	Phosphorylated 5-ethynyl-2-Deoxyuridine for advanced DNA labeling. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 4589-95	3.9	9
89	Physiological and genomic characterization of a new <i>Candidatus Nitrotoga</i> isolate. <i>Environmental Microbiology</i> , 2020 , 22, 2365-2382	5.2	9
88	Direct measurement of local dissolved oxygen concentration spatial profiles in a cell culture environment. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1263-74	4.9	9
87	Detection of MPLW515L/K mutations and determination of allele frequencies with a single-tube PCR assay. <i>PLoS ONE</i> , 2014 , 9, e104958	3.7	9
86	Real-time reverse transcription loop-mediated isothermal amplification for rapid and simple quantification of WT1 mRNA. <i>Clinical Biochemistry</i> , 2009 , 42, 515-20	3.5	9
85	Local mobility of polymer chain grafted onto polyethylene monitored by fluorescence depolarization. <i>Chemical Physics Letters</i> , 1997 , 275, 203-210	2.5	9
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- 2 Effect of Modeling Intestinal Crypts as Cylinders for Simulating Stem Cell Dynamics within Mouse and Human Colonic Crypts. *Journal of the Physical Society of Japan*, **2021**, 90, 044801 1.5
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