Nobuyasu Yamaguchi

List of Publications by Year
in descending order

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66 papers	1,804 citations	304368 22 h-index	276539 41 g-index
68 all docs	68 docs citations	68 times ranked	2212 citing authors

#	Article	IF	Citations
1	Bacterial activity and community composition in stream water and biofilm from an urban river determined by fluorescent in situ hybridization and DGGE analysis. FEMS Microbiology Ecology, 2003, 43, 111-119.	1.3	190
2	Global dispersion of bacterial cells on Asian dust. Scientific Reports, 2012, 2, 525.	1.6	174
3	Detection of Bacteria Carrying the stx2 Gene by In Situ Loop-Mediated Isothermal Amplification. Applied and Environmental Microbiology, 2003, 69, 5023-5028.	1.4	135
4	16S Ribosomal DNA-Based Analysis of Bacterial Diversity in Purified Water Used in Pharmaceutical Manufacturing Processes by PCR and Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 2002, 68, 699-704.	1.4	106
5	rRNA-targeted fluorescent in situ hybridization analysis of bacterial community structure in river water. Microbiology (United Kingdom), 1998, 144, 2085-2093.	0.7	95
6	Microbial Monitoring of Crewed Habitats in Spaceâ€"Current Status and Future Perspectives. Microbes and Environments, 2014, 29, 250-260.	0.7	89
7	Rapid detection of respiringEscherichia coli O157:H7 in apple juice, milk, and ground beef by flow cytometry. Cytometry, 2003, 54A, 27-35.	1.8	88
8	Four-year bacterial monitoring in the International Space Stationâ€"Japanese Experiment Module â€œKiboâ€• with culture-independent approach. Npj Microgravity, 2016, 2, 16007.	1.9	69
9	Rapid and Simple Quantification of Bacterial Cells by Using a Microfluidic Device. Applied and Environmental Microbiology, 2005, 71, 1117-1121.	1.4	63
10	Improved Direct Viable Count Procedure for Quantitative Estimation of Bacterial Viability in Freshwater Environments. Applied and Environmental Microbiology, 2000, 66, 5544-5548.	1.4	55
11	Rapid In Situ Enumeration of Physiologically Active Bacteria in River Waters using Fluorescent Probes.. Microbes and Environments, 1997, 12, 1-8.	0.7	43
12	Rapid, Semiautomated Quantification of Bacterial Cells in Freshwater by Using a Microfluidic Device for On-Chip Staining and Counting. Applied and Environmental Microbiology, 2011, 77, 1536-1539.	1.4	42
13	Bacterial Community Composition and Activity in Urban Rivers in Thailand and Malaysia.. Journal of Health Science, 2001, 47, 353-361.	0.9	38
14	Rapid and simple detection of food poisoning bacteria by bead assay with a microfluidic chip-based system. Journal of Microbiological Methods, 2006, 67, 241-247.	0.7	37
15	Rapid quantification of bacterial cells in potable water using a simplified microfluidic device. Journal of Microbiological Methods, 2007, 68, 643-647.	0.7	36
16	Rapid and automated enumeration of viable bacteria in compost using a micro-colony auto counting system. Journal of Microbiological Methods, 2007, 71, 1-6.	0.7	34
17	Development of an adhesive sheet for direct counting of bacteria on solid surfaces. Journal of Microbiological Methods, 2003, 53, 405-410.	0.7	29
18	Investigation of bacterial effects of Asian dust events through comparison with seasonal variability in outdoor airborne bacterial community. Scientific Reports, 2016, 6, 35706.	1.6	29

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19	rRNA Sequence-Based Scanning Electron Microscopic Detection of Bacteria. Applied and Environmental Microbiology, 2005, 71, 5523-5531.	1.4	27
20	Rapid on-site monitoring of Legionella pneumophila in cooling tower water using a portable microfluidic system. Scientific Reports, 2017, 7, 3092.	1.6	27
21	Enumeration of Respiring Pseudomonas spp. in Milk within 6 Hours by Fluorescence In Situ Hybridization following Formazan Reduction. Applied and Environmental Microbiology, 2005, 71, 2748-2752.	1.4	24
22	Rapid monitoring of bacteria in dialysis fluids by fluorescent vital staining and microcolony methods. Nephrology Dialysis Transplantation, 2006, 22, 612-616.	0.4	24
23	Recognition of Individual Genes in Diverse Microorganisms by Cycling Primed In Situ Amplification. Applied and Environmental Microbiology, 2005, 71, 7236-7244.	1.4	23
24	Bacterial Population Dynamics in a Reverse-Osmosis Water Purification System Determined by Fluorescent Staining and PCR-Denaturing Gradient Gel Electrophoresis. Microbes and Environments, 2009, 24, 163-167.	0.7	20
25	Simplified sample preparation using frame spotting method for direct counting of total bacteria by fluorescence microscopy. Journal of Microbiological Methods, 2004, 59, 427-431.	0.7	19
26	Quantitative Determination of Free-DNA Uptake in River Bacteria at the Single-Cell Level by In Situ Rolling-Circle Amplification. Applied and Environmental Microbiology, 2006, 72, 6248-6256.	1.4	18
27	Bacterial Monitoring with Adhesive Sheet in the International Space Station-â€œKiboâ€ the Japanese Experiment Module. Microbes and Environments, 2013, 28, 264-268.	0.7	17
28	Efficient transformation of Marchantia polymorpha that is haploid and has very small genome DNA. Journal of Bioscience and Bioengineering, 1997, 84, 519-523.	0.9	16
29	Selective enumeration of viable Enterobacteriaceae and Pseudomonas spp. in milk within 7h by multicolor fluorescence in situ hybridization following microcolony formation. Journal of Bioscience and Bioengineering, 2012, 113, 746-750.	1.1	15
30	Distribution and Respiratory Activity of Mycobacteria in Household Water System of Healthy Volunteers in Japan. PLoS ONE, 2014, 9, e110554.	1.1	15
31	Asian Dust Particles Induce Macrophage Inflammatory Responses via Mitogen-Activated Protein Kinase Activation and Reactive Oxygen Species Production. Journal of Immunology Research, 2014, 2014, 1-9.	0.9	15
32	Rapid On-chip flow Cytometric Detection of Listeria monocytogenes in Milk. Journal of Health Science, 2009, 55, 851-856.	0.9	14
33	Change in the Bacterial Community of Natural River Biofilm during Biodegradation of Aniline-Derived Compounds Determined by Denaturing Gradient Gel Electrophoresis. Journal of Health Science, 2003, 49, 379-385.	0.9	13
34	Effects of Asian dust events on atmospheric bacterial communities at different distances downwind of the source region. Journal of Environmental Sciences, 2018, 72, 133-139.	3.2	13
35	Rapid On-Site Monitoring of Bacteria in Freshwater Environments Using a Portable Microfluidic Counting System. Biological and Pharmaceutical Bulletin, 2020, 43, 87-92.	0.6	13
36	Simultaneous enumeration of viable Enterobacteriaceae and Pseudomonas spp. within three hours by multicolor fluorescence in situ hybridization with vital staining. Journal of Microbiological Methods, 2006, 65, 623-627.	0.7	11

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37	Rapid enumeration of low numbers of moulds in tea based drinks using an automated system. International Journal of Food Microbiology, 2011, 145, 365-369.	2.1	11
38	Detection of Food Poisoning Bacteria in Fresh Vegetables Using DNA Microarray. Journal of Health Science, 2006, 52, 36-42.	0.9	10
39	Characterization of FRI carbapenemase-producing Enterobacter spp. isolated from a hospital and the environment in Osaka, Japan. Journal of Antimicrobial Chemotherapy, 2021, 76, 3061-3062.	1.3	8
40	Estimation of Bacterial Biovolume and Biomass by Scanning Electron Microscopic Image Analysis.. Microbes and Environments, 1996, 11, 11-17.	0.7	7
41	Rapid Enumeration of Active <i>Legionella pneumophila</i> in Freshwater Environments by the Microcolony Method Combined with Direct Fluorescent Antibody Staining. Microbes and Environments, 2012, 27, 324-326.	0.7	7
42	Development of Phylogenetic Oligonucleotide Probes for Screening Foodborne Bacteria. Journal of Health Science, 2005, 51, 469-476.	0.9	6
43	Rapid Identification and Enumeration of Antibiotic Resistant Bacteria in Urban Canals by Microcolony-Fluorescence in Situ Hybridization. Journal of Health Science, 2006, 52, 703-710.	0.9	6
44	A Combination of Direct Viable Counting, Fluorescence in situ Hybridization, and Green Fluorescent Protein Gene Expression for Estimating Plasmid Transfer at the Single Cell Level. Microbes and Environments, 2006, 21, 101-111.	0.7	6
45	Stimulatory Effect of Glutamine and Pyruvate on Plasmid Transfer between Pseudomonas Strains. Microbes and Environments, 2007, 22, 320-326.	0.7	6
46	Environmental disease: environmental alteration and infectious disease. Ecological Research, 2011, 26, 893-896.	0.7	6
47	Biodegradation of Chemical Compounds in a Newly Developed Modified River Die-away Test.. Japanese Journal of Toxicology and Environmental Health, 1997, 43, 209-214.	0.1	5
48	In Situ Analysis of Community Structure in Activated Sludge with 2-Hydroxy-3-Naphthoic Acid-2-Phenylanilide Phosphate and Fast Red TR In Situ Hybridization.. Microbes and Environments, 1999, 14, 1-8.	0.7	5
49	Staphylococcus epidermidis Forms Floating Micro-colonies in Platelet Concentrates at the Early Stage of Contamination. Journal of Health Science, 2009, 55, 726-731.	0.9	5
50	Microchip-Based Terminal Restriction Fragment Length Polymorphism for On-Site Analysis of Bacterial Communities in Freshwater. Biological and Pharmaceutical Bulletin, 2013, 36, 1305-1309.	0.6	5
51	16S rRNA Sequence-based Rapid and Sensitive Detection of Aquatic Bacteria by On-chip Hybridization Following Multiplex PCR. Journal of Health Science, 2008, 54, 123-128.	0.9	4
52	Oligonucleotide Probes for Phylogenetic Detection of Waterborne Bacteria. Journal of Health Science, 2010, 56, 321-325.	0.9	4
53	Long-range Transportation of Bacterial Cells by Asian Dust. Genes and Environment, 2014, 36, 145-151.	0.9	4
54	Occurrence of Escherichia coli O157:H7 in river water determined by flow cytometry.. Microbes and Environments, 1998, 13, 77-83.	0.7	3

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55	Expression of <i>gyrB</i> and 16S Ribosomal RNA Genes as Indicators of Growth and Physiological Activities of <i><i>Legionella pneumophila</i></i>. Biocontrol Science, 2015, 20, 67-70.	0.2	3
56	Microfluidic rapid quantification of Salmonella enterica serovar Typhimurium collected from chicken meat using immunomagnetic separation after formaldehyde treatment. International Journal of Food Science and Technology, 2021, 56, 5402-5408.	1.3	3
57	Response of River Water Bacterial Communities to Aniline in Two Biodegradation Test Systems.. Biocontrol Science, 1997, 2, 79-86.	0.2	2
58	Rapid Quantification of Escherichia coli in Potable Water by Fluorescence In Situ Hybridization Performed in Liquid (liq-FISH) and a Microfluidic System. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	2
59	Advances in Microbial Ecology in 1990'. From Viewpoint of Methodology.. Microbes and Environments, 1997, 12, 41-56.	0.7	1
60	Rapid quantification of Escherichia coli O157 : H7 in lettuce and beef using an onâ€chip staining microfluidic device. Journal of Food Safety, 2020, 40, e12851.	1.1	1
61	Bacterial Monitoring in the International Space Station â€“ â€œKiboâ€. Journal of Disaster Research, 2015, 10, 1035-1039.	0.4	1
62	Bacterial Community Structure and Their Activity in Tropical Rivers Determined by Fluorescent Staining Methods.. Journal of Japan Society on Water Environment, 1999, 22, 1001-1004.	0.1	0
63	Rapid and Accurate Determination of Bacterial Abundance and their Physiological Activity in Freshwater used in Closed Ecology Experiment Facilities (CEEF) â€œMini-Earthâ€, Japan. , 2006, , .		0
64	Transformation Frequency of Escherichia coli HB101 under Low-Shear Modeled Microgravity. Uchu Seibutsu Kagaku, 2015, 29, 19-23.	1.0	0
65	Microbes and Crewed Space Habitat. Journal of Disaster Research, 2015, 10, 1022-1024.	0.4	0
66	Rapid On-Site Detection and Quantification of Foodborne Pathogens Using Microfluidic Devices. Methods in Molecular Biology, 2019, 1918, 57-66.	0.4	0