

# Kengo Kubota

## List of Publications by Year in descending order

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78  
papers

2,788  
citations

126708

33  
h-index

182168

51  
g-index

79  
all docs

79  
docs citations

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times ranked

2846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Niche Differentiation of Phenol-Degrading Microorganisms in UASB Granular Sludge as Revealed by Fluorescence in situ Hybridization. <i>Engineering</i> , 2022, 9, 61-66.	3.2	7
2	Microbial characteristics in anaerobic membrane bioreactor treating domestic sewage: Effects of HRT and process performance. <i>Journal of Environmental Sciences</i> , 2022, 111, 392-399.	3.2	28
3	Full-scale application of a down-flow hanging sponge reactor combined with a primary sedimentation basin for domestic sewage treatment. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 701-709.	1.7	2
4	Experimental Adaptation of Murine Norovirus to Calcium Hydroxide. <i>Frontiers in Microbiology</i> , 2022, 13, 848439.	1.5	4
5	Sodium hypochlorite induced inhibition in anaerobic digestion and possible approach to maintain methane fermentation performance. <i>Bioresource Technology</i> , 2022, 352, 127096.	4.8	5
6	Recent Progress in Cutting-edge Monitoring Tools for Microbiomes in Engineered Systems. <i>Journal of Japan Society on Water Environment</i> , 2022, 45, 91-105.	0.1	0
7	Diversity of <i>Candidatus</i> Patescibacteria in Activated Sludge Revealed by a Size-fractionation Approach. <i>Microbes and Environments</i> , 2022, 37, n/a.	0.7	3
8	Fast formation of anammox granules using a nitrification-denitrification sludge and transformation of microbial community. <i>Water Research</i> , 2022, 221, 118751.	5.3	29
9	Evaluation of microbial community succession and trophic transfer using microscopic, molecular and stable isotope ratio analysis in a sponge-based sewage treatment system. <i>Biochemical Engineering Journal</i> , 2021, 171, 108002.	1.8	3
10	Achieving superior nitrogen removal performance in low-strength ammonium wastewater treatment by cultivating concentrated, highly dispersive, and easily settleable granule sludge in a one-stage partial nitrification/anammox-HAP reactor. <i>Water Research</i> , 2021, 200, 117217.	5.3	53
11	Important effects of temperature on treating real municipal wastewater by a submerged anaerobic membrane bioreactor: Removal efficiency, biogas, and microbial community. <i>Bioresource Technology</i> , 2021, 336, 125306.	4.8	38
12	Sequence-Specific Capture of Oligonucleotide Probes (SCOPE): a Simple and Rapid Microbial rRNA Quantification Method Using a Molecular Weight Cutoff Membrane. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0116721.	1.4	0
13	The impact of calcium supplementation on methane fermentation and ammonia inhibition of fish processing wastewater. <i>Bioresource Technology</i> , 2021, 337, 125471.	4.8	9
14	Efficient phosphorus recovery by enhanced hydroxyapatite formation in a high loading anammox expanded bed reactor at 15°C. <i>Chemical Engineering Journal</i> , 2021, 425, 130636.	6.6	24
15	A successful start-up of an anaerobic membrane bioreactor (AnMBR) coupled mainstream partial nitrification-anammox (PN/A) system: A pilot-scale study on in-situ NOB elimination, AnAOB growth kinetics, and mainstream treatment performance. <i>Water Research</i> , 2021, 207, 117783.	5.3	69
16	MICROBIAL COMMUNITY STRUCTURE OF THERMOPHILIC ANAEROBIC DIGESTER SLUDGE AS REVEALED BY PMA-PCR. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2021, 77, III_103-III_109.	0.1	0
17	Uncovering Viable Microbiome in Anaerobic Sludge Digesters by Propidium Monoazide (PMA)-PCR. <i>Microbial Ecology</i> , 2020, 79, 925-932.	1.4	25
18	Application of two anaerobic membrane bioreactors with different pore size membranes for municipal wastewater treatment. <i>Science of the Total Environment</i> , 2020, 745, 140903.	3.9	33

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19	Effect of treated sewage characteristics on duckweed biomass production and microbial communities. <i>Water Science and Technology</i> , 2020, 82, 292-302.	1.2	4
20	EDTA-FISH: A Simple and Effective Approach to Reduce Non-specific Adsorption of Probes in Fluorescence <i>in situ</i> Hybridization (FISH) for Environmental Samples. <i>Microbes and Environments</i> , 2020, 35, n/a.	0.7	5
21	Simultaneous nitrogen removal and phosphorus recovery using an anammox expanded reactor operated at 25°C. <i>Water Research</i> , 2020, 172, 115510.	5.3	60
22	Temperature-phased anaerobic co-digestion of food waste and paper waste with and without recirculation: Biogas production and microbial structure. <i>Science of the Total Environment</i> , 2020, 724, 138168.	3.9	31
23	Aquatic insect community structure revealed by eDNA metabarcoding derives indices for environmental assessment. <i>PeerJ</i> , 2020, 8, e9176.	0.9	29
24	Time-series transition of the community structure of aquatic insects at middle domain of Natori river basin in Miyagi Prefecture as revealed by eDNA metabarcoding analysis.. <i>Ecology and Civil Engineering</i> , 2020, 23, 21-36.	0.1	0
25	Health Impact of Agricultural Drainage Water for Farmers in the West Nile Delta. <i>International Journal of Environmental Research</i> , 2019, 13, 319-325.	1.1	8
26	Successful operation performance and syntrophic micro-granule in partial nitritation and anammox reactor treating low-strength ammonia wastewater. <i>Water Research</i> , 2019, 155, 288-299.	5.3	174
27	Co-production of biohydrogen and biomethane from food waste and paper waste via recirculated two-phase anaerobic digestion process: Bioenergy yields and metabolic distribution. <i>Bioresource Technology</i> , 2019, 276, 325-334.	4.8	60
28	Characterization of microbial community and main functional groups of prokaryotes in thermophilic anaerobic co-digestion of food waste and paper waste. <i>Science of the Total Environment</i> , 2019, 652, 709-717.	3.9	60
29	Using Partial Nitrification and Anammox To Remove Nitrogen from Low-Strength Wastewater by Co-immobilizing Biofilm inside a Moving Bed Bioreactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1353-1361.	3.2	35
30	Response of morphology and microbial community structure of granules to influent COD/SO <sub>4</sub> <sup>2-</sup> ratios in an upflow anaerobic sludge blanket (UASB) reactor treating starch wastewater. <i>Bioresource Technology</i> , 2018, 256, 456-465.	4.8	48
31	Defining microbial community composition and seasonal variation in a sewage treatment plant in India using a down-flow hanging sponge reactor. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4381-4392.	1.7	9
32	Anaerobic treatment of N, N-dimethylformamide-containing wastewater by co-culturing two sources of inoculum. <i>Water Research</i> , 2018, 139, 228-239.	5.3	73
33	Characteristics of DO, organic matter, and ammonium profile for practical-scale DHS reactor under various organic load and temperature conditions. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 907-916.	1.2	6
34	Characterization of sludge properties for sewage treatment in a practical-scale down-flow hanging sponge reactor: oxygen consumption and removal of organic matter, ammonium, and sulfur. <i>Water Science and Technology</i> , 2018, 77, 608-616.	1.2	3
35	Characterization of downflow hanging sponge reactors with regard to structure, process function, and microbial community compositions. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10345-10352.	1.7	34
36	Microfluidic PCR Amplification and MiSeq Amplicon Sequencing Techniques for High-Throughput Detection and Genotyping of Human Pathogenic RNA Viruses in Human Feces, Sewage, and Oysters. <i>Frontiers in Microbiology</i> , 2018, 9, 830.	1.5	29

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37	Phase separation and microbial distribution in the hyperthermophilic-mesophilic-type temperature-phased anaerobic digestion (TPAD) of waste activated sludge (WAS). <i>Bioresource Technology</i> , 2017, 245, 401-410.	4.8	43
38	Sulfidogenesis process to strengthen re-granulation for biodegradation of methanolic wastewater and microorganisms evolution in an UASB reactor. <i>Water Research</i> , 2017, 108, 137-150.	5.3	53
39	Removal of human pathogenic viruses in a down-flow hanging sponge (DHS) reactor treating municipal wastewater and health risks associated with utilization of the effluent for agricultural irrigation. <i>Water Research</i> , 2017, 110, 389-398.	5.3	34
40	Visualization of Microorganisms in Bioprocesses. , 2017, , 13-26.		1
41	Application of DHS Reactor to Sewage Treatment in a Developing Country: Performance during Start-Up Period and under High Organic Load Condition. <i>Journal of Japan Society on Water Environment</i> , 2017, 40, 11-19.	0.1	4
42	Phylogenetic diversity and in situ detection of eukaryotes in anaerobic sludge digesters. <i>PLoS ONE</i> , 2017, 12, e0172888.	1.1	33
43	Development of a new non-aeration-based sewage treatment technology: Performance evaluation of a full-scale down-flow hanging sponge reactor employing third-generation sponge carriers. <i>Water Research</i> , 2016, 102, 138-146.	5.3	43
44	Effects of Predation by Protists on Prokaryotic Community Function, Structure, and Diversity in Anaerobic Granular Sludge. <i>Microbes and Environments</i> , 2016, 31, 279-287.	0.7	22
45	Effect of influent COD/SO <sub>4</sub> <sup>2-</sup> ratios on biodegradation behaviors of starch wastewater in an upflow anaerobic sludge blanket (UASB) reactor. <i>Bioresource Technology</i> , 2016, 214, 175-183.	4.8	89
46	Upgrading of mesophilic anaerobic digestion of waste activated sludge by thermophilic pre-fermentation and recycle: Process performance and microbial community analysis. <i>Fuel</i> , 2016, 169, 7-14.	3.4	28
47	Long-term operation performance and variation of substrate tolerance ability in an anammox attached film expanded bed (AAFEB) reactor. <i>Bioresource Technology</i> , 2016, 211, 31-40.	4.8	57
48	Comparison of hyper-thermophilic-mesophilic two-stage with single-stage mesophilic anaerobic digestion of waste activated sludge: Process performance and microbial community analysis. <i>Chemical Engineering Journal</i> , 2016, 290, 290-301.	6.6	59
49	Identification and Detection of Prokaryotic Symbionts in the Ciliate <i>Metopus</i> from Anaerobic Granular Sludge. <i>Microbes and Environments</i> , 2015, 30, 335-338.	0.7	23
50	Protocol for In Situ Detection of Functional Genes of Microorganisms by Two-Pass TSA-FISH. <i>Springer Protocols</i> , 2015, , 131-144.	0.1	0
51	Operation performance and granule characterization of upflow anaerobic sludge blanket (UASB) reactor treating wastewater with starch as the sole carbon source. <i>Bioresource Technology</i> , 2015, 180, 264-273.	4.8	116
52	In situ <i>DNA</i> -hybridization chain reaction ( <i>HCR</i> ): a facilitated in situ <i>HCR</i> system for the detection of environmental microorganisms. <i>Environmental Microbiology</i> , 2015, 17, 2532-2541.	1.8	65
53	Comparing mesophilic and thermophilic anaerobic digestion of chicken manure: Microbial community dynamics and process resilience. <i>Waste Management</i> , 2015, 43, 114-122.	3.7	73
54	Rapid and sensitive identification of marine bacteria by an improved in situ DNA hybridization chain reaction (quick <i>HCR</i> -FISH). <i>Systematic and Applied Microbiology</i> , 2015, 38, 400-405.	1.2	23

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55	Evaluation of functional microbial community's difference in full-scale and lab-scale anaerobic digesters feeding with different organic solid waste: Effects of substrate and operation factors. <i>Bioresource Technology</i> , 2015, 193, 110-118.	4.8	28
56	Hythane (H <sub>2</sub> +CH <sub>4</sub> ) production from petrochemical wastewater containing mono-ethylene glycol via stepped anaerobic baffled reactor. <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 252-261.	1.9	43
57	Biocatalysis conversion of methanol to methane in an upflow anaerobic sludge blanket (UASB) reactor: Long-term performance and inherent deficiencies. <i>Bioresource Technology</i> , 2015, 198, 691-700.	4.8	52
58	Effect of ammonia inhibition on microbial community dynamic and process functional resilience in mesophilic methane fermentation of chicken manure. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2161-2169.	1.6	50
59	Metaproteomic Identification of Diazotrophic Methanotrophs and Their Localization in Root Tissues of Field-Grown Rice Plants. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5043-5052.	1.4	101
60	Molecular Diversity of Eukaryotes in Municipal Wastewater Treatment Processes as Revealed by 18S rRNA Gene Analysis. <i>Microbes and Environments</i> , 2014, 29, 401-407.	0.7	53
61	Microbial community composition of a down-flow hanging sponge (DHS) reactor combined with an up-flow anaerobic sludge blanket (UASB) reactor for the treatment of municipal sewage. <i>Bioresource Technology</i> , 2014, 151, 144-150.	4.8	56
62	Metagenomic characterization of <i>Candidatus</i> <i>Delfluviicoccus tetraformis</i> strain TFO71 <sup>TM</sup> , a tetrad-forming organism, predominant in an anaerobic-aerobic membrane bioreactor with deteriorated biological phosphorus removal. <i>Environmental Microbiology</i> , 2014, 16, 2739-2751.	1.8	34
63	Gold-ISH: A nano-size gold particle-based phylogenetic identification compatible with NanoSIMS. <i>Systematic and Applied Microbiology</i> , 2014, 37, 261-266.	1.2	17
64	Characterization of the retained sludge in a down-flow hanging sponge (DHS) reactor with emphasis on its low excess sludge production. <i>Bioresource Technology</i> , 2013, 136, 169-175.	4.8	56
65	Kinetic analysis on gaseous and aqueous product formation by mixed anaerobic hydrogen-producing cultures. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15590-15597.	3.8	6
66	CARD-FISH for Environmental Microorganisms: Technical Advancement and Future Applications. <i>Microbes and Environments</i> , 2013, 28, 3-12.	0.7	75
67	Detection of single-copy functional genes in prokaryotic cells by two-pass TSA-FISH with polynucleotide probes. <i>Journal of Microbiological Methods</i> , 2012, 88, 218-223.	0.7	16
68	Characterization of sulfide-oxidizing microbial mats developed inside a full-scale anaerobic digester employing biological desulfurization. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 847-857.	1.7	61
69	Novel Online Monitoring and Alert System for Anaerobic Digestion Reactors. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9093-9100.	4.6	31
70	Anaerobic degradation of palm oil mill effluent (POME). <i>Water Science and Technology</i> , 2011, 64, 2001-2008.	1.2	12
71	Detection of Single Copy Genes by Two-Pass Tyramide Signal Amplification Fluorescence in situ Hybridization (Two-Pass TSA-FISH) with Single Oligonucleotide Probes. <i>Microbes and Environments</i> , 2010, 25, 15-21.	0.7	26
72	Characterization of start-up performance and archaeal community shifts during anaerobic self-degradation of waste-activated sludge. <i>Bioresource Technology</i> , 2009, 100, 4981-4988.	4.8	67

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73	Effects of seed sludge on fermentative characteristics and microbial community structures in thermophilic hydrogen fermentation of starch. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6541-6548.	3.8	60
74	Evaluation of enzymatic cell treatments for application of CARD-FISH to methanogens. <i>Journal of Microbiological Methods</i> , 2008, 72, 54-59.	0.7	41
75	Visualization of mcr mRNA in a methanogen by fluorescence in situ hybridization with an oligonucleotide probe and two-pass tyramide signal amplification (two-pass TSA-FISH). <i>Journal of Microbiological Methods</i> , 2006, 66, 521-528.	0.7	39
76	Improved In Situ Hybridization Efficiency with Locked-Nucleic-Acid-Incorporated DNA Probes. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5311-5317.	1.4	91
77	Construction of a Cell Surface Engineered Yeast Aims to Selectively Recover Molybdenum, a Rare Metal. <i>Solid State Phenomena</i> , 0, 262, 421-424.	0.3	2
78	Treatment performance of practical-scale down-flow hanging sponge reactor using sixth-generation hard sponge media. , 0, 91, 48-54.		3