Ryo Honda

List of Publications by Year
in descending order

85 papers	2,130 citations	236612 25 h-index	276539 41 g-index
87 all docs	87 docs citations	87 times ranked	2479 citing authors

#	Article	IF	Citations
1	Detection of SARS-CoV-2 in wastewater in Japan during a COVID-19 outbreak. Science of the Total Environment, 2021, 758, 143578.	3.9	176
2	Concurrence of antibiotic resistant bacteria (ARB), viruses, pharmaceuticals and personal care products (PPCPs) in ambient waters of Guwahati, India: Urban vulnerability and resilience perspective. Science of the Total Environment, 2019, 693, 133640.	3.9	113
3	Carbon dioxide capture and nutrients removal utilizing treated sewage by concentrated microalgae cultivation in a membrane photobioreactor. Bioresource Technology, 2012, 125, 59-64.	4.8	105
4	Antibiotic resistance of Escherichia coli in leachates from municipal solid waste landfills: Comparison between semi-aerobic and anaerobic operations. Bioresource Technology, 2012, 113, 253-258.	4.8	84
5	Organic carbon recovery and photosynthetic bacteria population in an anaerobic membrane photo-bioreactor treating food processing wastewater. Bioresource Technology, 2013, 141, 65-74.	4.8	81
6	Letter to the Editor: Wastewater-Based Epidemiology Can Overcome Representativeness and Stigma Issues Related to COVID-19. Environmental Science & Technology, 2020, 54, 5311-5311.	4.6	71
7	Potential Sensitivity of Wastewater Monitoring for SARS-CoV-2: Comparison with Norovirus Cases. Environmental Science & Technology, 2020, 54, 6451-6452.	4.6	69
8	Treatment enhances the prevalence of antibiotic-resistant bacteria and antibiotic resistance genes in the wastewater of Sri Lanka, and India. Environmental Research, 2020, 183, 109179.	3.7	63
9	Effects of membrane orientation on fouling characteristics of forward osmosis membrane in concentration of microalgae culture. Bioresource Technology, 2015, 197, 429-433.	4.8	55
10	Vulnerability of urban waters to emerging contaminants in India and Sri Lanka: Resilience framework and strategy. APN Science Bulletin, 2019, 9, .	0.2	54
11	Artificial neural network-based estimation of COVID-19 case numbers and effective reproduction rate using wastewater-based epidemiology. Water Research, 2022, 218, 118451.	5.3	52
12	Effects of hydraulic retention time and carbon to nitrogen ratio on micro-pollutant biodegradation in membrane bioreactor for leachate treatment. Bioresource Technology, 2016, 219, 53-63.	4.8	48
13	Optimum selection of extraction methods of extracellular polymeric substances in activated sludge for effective extraction of the target components. Biochemical Engineering Journal, 2017, 127, 136-146.	1.8	45
14	Effect of hydraulic retention time on micropollutant biodegradation in activated sludge system augmented with acclimatized sludge treating low-micropollutants wastewater. Chemosphere, 2019, 230, 606-615.	4.2	45
15	Optimization of wastewater feeding for single-cell protein production in an anaerobic wastewater treatment process utilizing purple non-sulfur bacteria in mixed culture condition. Journal of Biotechnology, 2006, 125, 565-573.	1.9	38
16	Photosynthetic bacteria production from food processing wastewater in sequencing batch and membrane photo-bioreactors. Water Science and Technology, 2012, 65, 504-512.	1.2	36
17	Optimum conditions of pH, temperature and preculture for biosorption of europium by microalgae Acutodesmus acuminatus. Biochemical Engineering Journal, 2019, 143, 58-64.	1.8	36
18	Municipal solid waste flow and waste generation characteristics in an urbanâ€"rural fringe area in Thailand. Waste Management and Research, 2009, 27, 951-960.	2.2	35

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19	Toxicological assessment of hospital wastewater in different treatment processes. Environmental Science and Pollution Research, 2018, 25, 7271-7279.	2.7	34
20	Estimated discharge of antibiotic-resistant bacteria from combined sewer overflows of urban sewage system. Npj Clean Water, 2020, 3, .	3.1	34
21	SARS-CoV-2 shedding sources in wastewater and implications for wastewater-based epidemiology. Journal of Hazardous Materials, 2022, 432, 128667.	6.5	34
22	Impacts of urbanization on the prevalence of antibiotic-resistant Escherichia coli in the Chaophraya River and its tributaries. Water Science and Technology, 2016, 73, 362-374.	1.2	32
23	Double Burden of Malnutrition in Rural West Java: Household-Level Analysis for Father-Child and Mother-Child Pairs and the Association with Dietary Intake. Nutrients, 2015, 7, 8376-8391.	1.7	29
24	MicroRNAâ€143/Musashiâ€2/<scp>KRAS</scp> cascade contributes positively to carcinogenesis in human bladder cancer. Cancer Science, 2019, 110, 2189-2199.	1.7	27
25	Use of aged sludge bioaugmentation in two-stage activated sludge system to enhance the biodegradation of toxic organic compounds in high strength wastewater. Chemosphere, 2018, 202, 208-217.	4.2	26
26	Candidates of quorum sensing bacteria in activated sludge associated with N-acyl homoserine lactones. Chemosphere, 2019, 236, 124292.	4.2	26
27	Optimization of Hydraulic Retention Time and Biomass Concentration in Microalgae Biomass Production from Treated Sewage with a Membrane Photobioreactor. Journal of Water and Environment Technology, 2017, 15, 1-11.	0.3	24
28	Selection of surrogate viruses for process control in detection of SARS-CoV-2 in wastewater. Science of the Total Environment, 2022, 823, 153737.	3.9	24
29	CrAssphage as an indicator of human-fecal contamination in water environment and virus reduction in wastewater treatment. Water Research, 2022, 221, 118827.	5.3	24
30	Role of the Disulfide Bond in Prion Protein Amyloid Formation: A Thermodynamic and Kinetic Analysis. Biophysical Journal, 2018, 114, 885-892.	0.2	23
31	Mechanism of biofouling enhancement in a membrane bioreactor under constant trans-membrane pressure operation. Journal of Membrane Science, 2019, 592, 117391.	4.1	22
32	Making Waves Perspectives of Modelling and Monitoring of SARS-CoV-2 in Aquatic Environment for COVID-19 Pandemic. Current Pollution Reports, 2020, 6, 468-479.	3.1	22
33	Metagenomic insights into the effect of sulfate on enhanced biological phosphorus removal. Applied Microbiology and Biotechnology, 2021, 105, 2181-2193.	1.7	21
34	Conversion of Organic Carbon in Food Processing Wastewater to Photosynthetic Biomass in Photo-bioreactors Using Different Light Sources. Environmental Engineering Research, 2014, 19, 293-298.	1.5	21
35	Photosynthetic bacteria pond system with infra-red transmitting filter for the treatment and recovery of organic carbon from industrial wastewater. Water Science and Technology, 2007, 56, 109-116.	1.2	20
36	Potential discharge, attenuation and exposure risk of SARS-CoV-2 in natural water bodies receiving treated wastewater. Npj Clean Water, 2021, 4, .	3.1	20

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37	Petasin potently inhibits mitochondrial complex Iâ€“based metabolism that supports tumor growth and metastasis. Journal of Clinical Investigation, 2021, 131, .	3.9	19
38	Prevalence of antibiotic resistance in the tropical rivers of Sri Lanka and India. Environmental Research, 2020, 188, 109765.	3.7	17
39	Seasonality impels the antibiotic resistance in Kelani River of the emerging economy of Sri Lanka. Npj Clean Water, 2020, 3, .	3.1	17
40	Kaempferol Has Potent Protective and Antifibrillogenic Effects for Î±-Synuclein Neurotoxicity In Vitro. International Journal of Molecular Sciences, 2021, 22, 11484.	1.8	17
41	Sewage surveillance for SARS-CoV-2: Molecular detection, quantification, and normalization factors. Current Opinion in Environmental Science and Health, 2022, 28, 100363.	2.1	17
42	Polarity-Molecular Weight Profile of Extracellular Polymeric Substances in a Membrane Bioreactor: Comparison between Bulk Sludge and Cake Layers. Journal of Water and Environment Technology, 2018, 16, 40-53.	0.3	16
43	Enhanced micropollutant biodegradation and assessment of nitrous oxide concentration reduction in wastewater treated by acclimatized sludge bioaugmentation. Science of the Total Environment, 2018, 637-638, 771-779.	3.9	16
44	Effect of leachate effluent from activated sludge and membrane bioreactor systems with acclimatized sludge on plant seed germination. Science of the Total Environment, 2020, 724, 138275.	3.9	16
45	Effect of the addition of rice straw on microbial community in a sewage sludge digester. Water Science and Technology, 2014, 70, 819-827.	1.2	15
46	Application of microalgae hydrolysate as a fermentation medium for microbial production of 2-pyrone 4,6-dicarboxylic acid. Journal of Bioscience and Bioengineering, 2018, 125, 717-722.	1.1	15
47	Effect of Sedimentation and Aeration on Antibiotic Resistance Induction in the Activated Sludge Process. Journal of Water and Environment Technology, 2018, 16, 94-105.	0.3	15
48	Application of real treated wastewater to starch production by microalgae: Potential effect of nutrients and microbial contamination. Biochemical Engineering Journal, 2021, 169, 107973.	1.8	14
49	Mixed land-use planning on the periphery of large Asian cities: the case of Nonthaburi Province, Thailand. Sustainability Science, 2010, 5, 237-248.	2.5	13
50	Fate and seasonal change of Escherichia coli resistant to different antibiotic classes at each stage of conventional activated sludge process. Journal of Water and Health, 2020, 18, 879-889.	1.1	13
51	Toxic compounds biodegradation and toxicity of high strength wastewater treated under elevated nitrogen concentration in the activated sludge and membrane bioreactor systems. Science of the Total Environment, 2017, 592, 252-261.	3.9	12
52	Amyloidâ€Î² Peptide Induces Prion Protein Amyloid Formation: Evidence for Its Widespread Amyloidogenic Effect. Angewandte Chemie - International Edition, 2018, 57, 6086-6089.	7.2	12
53	Electrochemical and Mechanistic Study of Oxidative Degradation of Favipiravir by Electrogenerated Superoxide through Proton-Coupled Electron Transfer. ACS Omega, 2021, 6, 21730-21740.	1.6	12
54	Initial behaviors and removal of extracellular plasmid gene in membrane bioreactor. Journal of Environmental Management, 2021, 298, 113541.	3.8	11

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55	Effects of Microwave Pretreatment of Dewatered Sludge from an Oxidation-Ditch Process on the Biogas Yield in Mesophilic Anaerobic Digestion. Journal of Water and Environment Technology, 2016, 14, 158-165.	0.3	10
56	Public Health Benefits and Ethical Aspects in the Collection and Open Sharing of Wastewater-Based Epidemic Data on COVID-19. Data Science Journal, 2021, 20, .	0.6	10
57	Impacts of housing development on nutrients flow along canals in a peri-urban area of Bangkok, Thailand. Water Science and Technology, 2010, 61, 1073-1080.	1.2	9
58	Specific inhibition of oncogenic RAS using cell-permeable RAS-binding domains. Cell Chemical Biology, 2021, 28, 1581-1589.e6.	2.5	9
59	Treatment efficiency and greenhouse gas emissions of non-floating and floating bed activated sludge system with acclimatized sludge treating landfill leachate. Bioresource Technology, 2021, 330, 124952.	4.8	9
60	Canine SOD1 harboring E40K or T18S mutations promotes protein aggregation without reducing the global structural stability. PeerJ, 2020, 8, e9512.	0.9	9
61	Utilization of Anaerobic Digestion Supernatant as a Nutrient Source in Microalgal Biomass Production with a Membrane Photobioreactor. Journal of Water and Environment Technology, 2017, 15, 199-206.	0.3	8
62	A valine-to-lysine substitution at position 210 induces structural conversion of prion protein into a Î²-sheet rich oligomer. Biochemical and Biophysical Research Communications, 2018, 506, 81-86.	1.0	8
63	Electrochemical and Mechanistic Study of Superoxide Elimination by Mesalazine through Proton-Coupled Electron Transfer. Pharmaceuticals, 2021, 14, 120.	1.7	8
64	Electrochemical and Mechanistic Study of Reactivities of Î±-, Î²-, Î³-, and Î´-Tocopherol toward Electrogenerated Superoxide in N,N-Dimethylformamide through Proton-Coupled Electron Transfer. Antioxidants, 2022, 11, 9.	2.2	8
65	Evidence for a central role of PrP helix 2 in the nucleation of amyloid fibrils. FASEB Journal, 2018, 32, 3641-3652.	0.2	7
66	Diversity of N-acyl homoserine lactones in activated sludge detected by Fourier transform mass spectrometry. Npj Clean Water, 2019, 2, .	3.1	7
67	A DISC1 point mutation promotes oligomerization and impairs information processing in a mouse model of schizophrenia. Journal of Biochemistry, 2019, 165, 369-378.	0.9	7
68	A bioelectrochemical-system-based trickling filter reactor for wastewater treatment. Bioresource Technology, 2020, 315, 123798.	4.8	7
69	Î±-Synuclein chaperone suppresses nucleation and amyloidogenesis of prion protein. Biochemical and Biophysical Research Communications, 2020, 521, 259-264.	1.0	6
70	Enhancement of methane production and phosphorus recovery with a novel pre-treatment of excess sludge using waste plaster board. Journal of Environmental Management, 2020, 255, 109844.	3.8	6
71	Methane recovery from acidic tofu wastewater using an anaerobic fixed-bed reactor with bamboo as the biofilm carrier. Journal of Material Cycles and Waste Management, 2021, 23, 537-547.	1.6	6
72	Electrochemical and Mechanistic Study of Superoxide Scavenging by Pyrogallol in N,N-Dimethylformamide through Proton-Coupled Electron Transfer. Electrochem, 2022, 3, 115-128.	1.7	5

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73	Discovery of a multipotent chaperone, 1-(2,6-Difluorobenzylamino)-3-(1,2,3,4-tetrahydrocarbazol-9-yl)-propan-2-ol with the inhibitory effects on the proliferation of prion, cancer as well as influenza virus. Prion, 2020, 14, 42-46.	0.9	4
74	Reply: Potential discharge, attenuation and exposure risk of SARS-CoV-2 in natural water bodies receiving treated wastewater. Npj Clean Water, 2021, 4, .	3.1	4
75	Amyloidâ€Î² Peptide Induces Prion Protein Amyloid Formation: Evidence for Its Widespread Amyloidogenic Effect. Angewandte Chemie, 2018, 130, 6194-6197.	1.6	3
76	Poly-L-histidine inhibits prion propagation in a prion-infected cell line. Prion, 2018, 12, 226-233.	0.9	3
77	Structural and functional characterization of fast-cycling RhoF GTPase. Biochemical and Biophysical Research Communications, 2019, 513, 522-527.	1.0	3
78	Effects of Biomass Addition on Organic Composition of Supernatant in Sludge Digestion Process. Journal of Water and Environment Technology, 2019, 17, 1-8.	0.3	3
79	Change of extracellular polymeric substances and microbial community in biofouling mitigation by continuous vanillin dose in membrane bioreactor. Journal of Water Process Engineering, 2022, 47, 102644.	2.6	3
80	Monomeric Î±-synuclein (Î±S) inhibits amyloidogenesis of human prion protein (hPrP) by forming a stable Î±S-hPrP hetero-dimer.. Prion, 2021, 15, 37-43.	0.9	2
81	A Review on Antibiotic Resistance Gene (ARG) Occurrence and Detection in WWTP in Ishikawa, Japan and Colombo, Sri Lanka. Springer Transactions in Civil and Environmental Engineering, 2020, , 1-14.	0.3	2
82	EFFECT OF RICE STRAW ADDITION ON HIGH SORID THERMOPHIRIC DIGESTION OF SEWAGE SLUDG FROM AN OXIDATION DITCH PLANT. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2019, 75, III_451-III_459.	0.1	2
83	Effects of organic carbon and sulfide on the anammox reaction in the anoxic column in the SRDAPN process for treating high-strength wastewater. Journal of Environmental Management, 2022, 307, 114459.	3.8	2
84	Adosorption behaviors of metal in leaching solution of phosphors using biosorption by microalgae. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2020, 76, III_319-III_326.	0.1	0
85	DEVELOPMENT AND FIELD VERIFICATION OF NOVEL PASSIVE SAMPLER FOR EARLY DETECTION OF SARS-CoV-2 PATIENT FOR INDIVIDUAL BUILDING WASTEWATER. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2021, 77, III_179-III_190.	0.1	0