

# Ryo Honda

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Effects of organic carbon and sulfide on the anammox reaction in the anoxic column in the SRDAPN process for treating high-strength wastewater. <i>Journal of Environmental Management</i> , 2022, 307, 114459.	3.8	2
2	Electrochemical and Mechanistic Study of Superoxide Scavenging by Pyrogallol in N,N-Dimethylformamide through Proton-Coupled Electron Transfer. <i>Electrochem</i> , 2022, 3, 115-128.	1.7	5
3	Selection of surrogate viruses for process control in detection of SARS-CoV-2 in wastewater. <i>Science of the Total Environment</i> , 2022, 823, 153737.	3.9	24
4	Change of extracellular polymeric substances and microbial community in biofouling mitigation by continuous vanillin dose in membrane bioreactor. <i>Journal of Water Process Engineering</i> , 2022, 47, 102644.	2.6	3
5	SARS-CoV-2 shedding sources in wastewater and implications for wastewater-based epidemiology. <i>Journal of Hazardous Materials</i> , 2022, 432, 128667.	6.5	34
6	Electrochemical and Mechanistic Study of Reactivities of $\hat{I}^{\pm}$ , $\hat{I}^{2-}$ , $\hat{I}^{\beta-}$ , and $\hat{I}$ -Tocopherol toward Electrogenerated Superoxide in N,N-Dimethylformamide through Proton-Coupled Electron Transfer. <i>Antioxidants</i> , 2022, 11, 9.	2.2	8
7	Sewage surveillance for SARS-CoV-2: Molecular detection, quantification, and normalization factors. <i>Current Opinion in Environmental Science and Health</i> , 2022, 28, 100363.	2.1	17
8	Artificial neural network-based estimation of COVID-19 case numbers and effective reproduction rate using wastewater-based epidemiology. <i>Water Research</i> , 2022, 218, 118451.	5.3	52
9	CrAssphage as an indicator of human-fecal contamination in water environment and virus reduction in wastewater treatment. <i>Water Research</i> , 2022, 221, 118827.	5.3	24
10	Detection of SARS-CoV-2 in wastewater in Japan during a COVID-19 outbreak. <i>Science of the Total Environment</i> , 2021, 758, 143578.	3.9	176
11	Methane recovery from acidic tofu wastewater using an anaerobic fixed-bed reactor with bamboo as the biofilm carrier. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 537-547.	1.6	6
12	Potential discharge, attenuation and exposure risk of SARS-CoV-2 in natural water bodies receiving treated wastewater. <i>Npj Clean Water</i> , 2021, 4, .	3.1	20
13	Public Health Benefits and Ethical Aspects in the Collection and Open Sharing of Wastewater-Based Epidemic Data on COVID-19. <i>Data Science Journal</i> , 2021, 20, .	0.6	10
14	Monomeric $\hat{I}^{\pm}$ -synuclein ( $\hat{I}^{\pm}S$ ) inhibits amyloidogenesis of human prion protein (hPrP) by forming a stable $\hat{I}^{\pm}S$ -hPrP hetero-dimer.. <i>Prion</i> , 2021, 15, 37-43.	0.9	2
15	Electrochemical and Mechanistic Study of Superoxide Elimination by Mesalazine through Proton-Coupled Electron Transfer. <i>Pharmaceuticals</i> , 2021, 14, 120.	1.7	8
16	Metagenomic insights into the effect of sulfate on enhanced biological phosphorus removal. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 2181-2193.	1.7	21
17	Specific inhibition of oncogenic RAS using cell-permeable RAS-binding domains. <i>Cell Chemical Biology</i> , 2021, 28, 1581-1589.e6.	2.5	9
18	Application of real treated wastewater to starch production by microalgae: Potential effect of nutrients and microbial contamination. <i>Biochemical Engineering Journal</i> , 2021, 169, 107973.	1.8	14

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19	Treatment efficiency and greenhouse gas emissions of non-floating and floating bed activated sludge system with acclimatized sludge treating landfill leachate. <i>Bioresource Technology</i> , 2021, 330, 124952.	4.8	9
20	Reply: Potential discharge, attenuation and exposure risk of SARS-CoV-2 in natural water bodies receiving treated wastewater. <i>Npj Clean Water</i> , 2021, 4, .	3.1	4
21	Electrochemical and Mechanistic Study of Oxidative Degradation of Favipiravir by Electrogenated Superoxide through Proton-Coupled Electron Transfer. <i>ACS Omega</i> , 2021, 6, 21730-21740.	1.6	12
22	Petasin potently inhibits mitochondrial complex I $\alpha$ -based metabolism that supports tumor growth and metastasis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	19
23	Initial behaviors and removal of extracellular plasmid gene in membrane bioreactor. <i>Journal of Environmental Management</i> , 2021, 298, 113541.	3.8	11
24	Kaempferol Has Potent Protective and Antifibrillogenic Effects for $\alpha$ -Synuclein Neurotoxicity In Vitro. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11484.	1.8	17
25	DEVELOPMENT AND FIELD VERIFICATION OF NOVEL PASSIVE SAMPLER FOR EARLY DETECTION OF SARS-CoV-2 PATIENT FOR INDIVIDUAL BUILDING WASTEWATER. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2021, 77, III_179-III_190.	0.1	0
26	$\alpha$ -Synuclein chaperone suppresses nucleation and amyloidogenesis of prion protein. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 259-264.	1.0	6
27	Enhancement of methane production and phosphorus recovery with a novel pre-treatment of excess sludge using waste plaster board. <i>Journal of Environmental Management</i> , 2020, 255, 109844.	3.8	6
28	A bioelectrochemical-system-based trickling filter reactor for wastewater treatment. <i>Bioresource Technology</i> , 2020, 315, 123798.	4.8	7
29	Making Waves Perspectives of Modelling and Monitoring of SARS-CoV-2 in Aquatic Environment for COVID-19 Pandemic. <i>Current Pollution Reports</i> , 2020, 6, 468-479.	3.1	22
30	Potential Sensitivity of Wastewater Monitoring for SARS-CoV-2: Comparison with Norovirus Cases. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6451-6452.	4.6	69
31	Prevalence of antibiotic resistance in the tropical rivers of Sri Lanka and India. <i>Environmental Research</i> , 2020, 188, 109765.	3.7	17
32	Effect of leachate effluent from activated sludge and membrane bioreactor systems with acclimatized sludge on plant seed germination. <i>Science of the Total Environment</i> , 2020, 724, 138275.	3.9	16
33	Seasonality impels the antibiotic resistance in Kelani River of the emerging economy of Sri Lanka. <i>Npj Clean Water</i> , 2020, 3, .	3.1	17
34	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. <i>Prion</i> , 2020, 14, 42-46.	0.9	4
35	Treatment enhances the prevalence of antibiotic-resistant bacteria and antibiotic resistance genes in the wastewater of Sri Lanka, and India. <i>Environmental Research</i> , 2020, 183, 109179.	3.7	63
36	Estimated discharge of antibiotic-resistant bacteria from combined sewer overflows of urban sewage system. <i>Npj Clean Water</i> , 2020, 3, .	3.1	34

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37	Letter to the Editor: Wastewater-Based Epidemiology Can Overcome Representativeness and Stigma Issues Related to COVID-19. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5311-5311.	4.6	71
38	A Review on Antibiotic Resistance Gene (ARG) Occurrence and Detection in WWTP in Ishikawa, Japan and Colombo, Sri Lanka. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020, , 1-14.	0.3	2
39	Fate and seasonal change of <i>Escherichia coli</i> resistant to different antibiotic classes at each stage of conventional activated sludge process. <i>Journal of Water and Health</i> , 2020, 18, 879-889.	1.1	13
40	Canine SOD1 harboring E40K or T18S mutations promotes protein aggregation without reducing the global structural stability. <i>PeerJ</i> , 2020, 8, e9512.	0.9	9
41	Adsorption behaviors of metal in leaching solution of phosphors using biosorption by microalgae. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2020, 76, III_319-III_326.	0.1	0
42	Concurrence of antibiotic resistant bacteria (ARB), viruses, pharmaceuticals and personal care products (PPCPs) in ambient waters of Guwahati, India: Urban vulnerability and resilience perspective. <i>Science of the Total Environment</i> , 2019, 693, 133640.	3.9	113
43	Candidates of quorum sensing bacteria in activated sludge associated with N-acyl homoserine lactones. <i>Chemosphere</i> , 2019, 236, 124292.	4.2	26
44	Mechanism of biofouling enhancement in a membrane bioreactor under constant trans-membrane pressure operation. <i>Journal of Membrane Science</i> , 2019, 592, 117391.	4.1	22
45	MicroRNA-143/Musashi2/KRAS cascade contributes positively to carcinogenesis in human bladder cancer. <i>Cancer Science</i> , 2019, 110, 2189-2199.	1.7	27
46	Diversity of N-acyl homoserine lactones in activated sludge detected by Fourier transform mass spectrometry. <i>Npj Clean Water</i> , 2019, 2, .	3.1	7
47	Effect of hydraulic retention time on micropollutant biodegradation in activated sludge system augmented with acclimatized sludge treating low-micropollutants wastewater. <i>Chemosphere</i> , 2019, 230, 606-615.	4.2	45
48	Structural and functional characterization of fast-cycling RhoF GTPase. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 522-527.	1.0	3
49	Optimum conditions of pH, temperature and preculture for biosorption of europium by microalgae <i>Acutodesmus acuminatus</i> . <i>Biochemical Engineering Journal</i> , 2019, 143, 58-64.	1.8	36
50	A DISC1 point mutation promotes oligomerization and impairs information processing in a mouse model of schizophrenia. <i>Journal of Biochemistry</i> , 2019, 165, 369-378.	0.9	7
51	Vulnerability of urban waters to emerging contaminants in India and Sri Lanka: Resilience framework and strategy. <i>APN Science Bulletin</i> , 2019, 9, .	0.2	54
52	Effects of Biomass Addition on Organic Composition of Supernatant in Sludge Digestion Process. <i>Journal of Water and Environment Technology</i> , 2019, 17, 1-8.	0.3	3
53	EFFECT OF RICE STRAW ADDITION ON HIGH SORID THERMOPHIRIC DIGESTION OF SEWAGE SLUDG FROM AN OXIDATION DITCH PLANT. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2019, 75, III_451-III_459.	0.1	2
54	Toxicological assessment of hospital wastewater in different treatment processes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 7271-7279.	2.7	34

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55	Amyloid $\beta$ Peptide Induces Prion Protein Amyloid Formation: Evidence for Its Widespread Amyloidogenic Effect. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6086-6089.	7.2	12
56	Amyloid $\beta$ Peptide Induces Prion Protein Amyloid Formation: Evidence for Its Widespread Amyloidogenic Effect. <i>Angewandte Chemie</i> , 2018, 130, 6194-6197.	1.6	3
57	Application of microalgae hydrolysate as a fermentation medium for microbial production of 2-pyrone 4,6-dicarboxylic acid. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 717-722.	1.1	15
58	Polarity-Molecular Weight Profile of Extracellular Polymeric Substances in a Membrane Bioreactor: Comparison between Bulk Sludge and Cake Layers. <i>Journal of Water and Environment Technology</i> , 2018, 16, 40-53.	0.3	16
59	Effect of Sedimentation and Aeration on Antibiotic Resistance Induction in the Activated Sludge Process. <i>Journal of Water and Environment Technology</i> , 2018, 16, 94-105.	0.3	15
60	Use of aged sludge bioaugmentation in two-stage activated sludge system to enhance the biodegradation of toxic organic compounds in high strength wastewater. <i>Chemosphere</i> , 2018, 202, 208-217.	4.2	26
61	Role of the Disulfide Bond in Prion Protein Amyloid Formation: A Thermodynamic and Kinetic Analysis. <i>Biophysical Journal</i> , 2018, 114, 885-892.	0.2	23
62	A valine-to-lysine substitution at position 210 induces structural conversion of prion protein into a $\beta$ -sheet rich oligomer. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 81-86.	1.0	8
63	Poly-L-histidine inhibits prion propagation in a prion-infected cell line. <i>Prion</i> , 2018, 12, 226-233.	0.9	3
64	Enhanced micropollutant biodegradation and assessment of nitrous oxide concentration reduction in wastewater treated by acclimatized sludge bioaugmentation. <i>Science of the Total Environment</i> , 2018, 637-638, 771-779.	3.9	16
65	Evidence for a central role of PrP helix 2 in the nucleation of amyloid fibrils. <i>FASEB Journal</i> , 2018, 32, 3641-3652.	0.2	7
66	Toxic compounds biodegradation and toxicity of high strength wastewater treated under elevated nitrogen concentration in the activated sludge and membrane bioreactor systems. <i>Science of the Total Environment</i> , 2017, 592, 252-261.	3.9	12
67	Optimum selection of extraction methods of extracellular polymeric substances in activated sludge for effective extraction of the target components. <i>Biochemical Engineering Journal</i> , 2017, 127, 136-146.	1.8	45
68	Utilization of Anaerobic Digestion Supernatant as a Nutrient Source in Microalgal Biomass Production with a Membrane Photobioreactor. <i>Journal of Water and Environment Technology</i> , 2017, 15, 199-206.	0.3	8
69	Optimization of Hydraulic Retention Time and Biomass Concentration in Microalgae Biomass Production from Treated Sewage with a Membrane Photobioreactor. <i>Journal of Water and Environment Technology</i> , 2017, 15, 1-11.	0.3	24
70	Effects of hydraulic retention time and carbon to nitrogen ratio on micro-pollutant biodegradation in membrane bioreactor for leachate treatment. <i>Bioresource Technology</i> , 2016, 219, 53-63.	4.8	48
71	Effects of Microwave Pretreatment of Dewatered Sludge from an Oxidation-Ditch Process on the Biogas Yield in Mesophilic Anaerobic Digestion. <i>Journal of Water and Environment Technology</i> , 2016, 14, 158-165.	0.3	10
72	Impacts of urbanization on the prevalence of antibiotic-resistant <i>Escherichia coli</i> in the Chaophraya River and its tributaries. <i>Water Science and Technology</i> , 2016, 73, 362-374.	1.2	32

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73	Double Burden of Malnutrition in Rural West Java: Household-Level Analysis for Father-Child and Mother-Child Pairs and the Association with Dietary Intake. <i>Nutrients</i> , 2015, 7, 8376-8391.	1.7	29
74	Effects of membrane orientation on fouling characteristics of forward osmosis membrane in concentration of microalgae culture. <i>Bioresource Technology</i> , 2015, 197, 429-433.	4.8	55
75	Effect of the addition of rice straw on microbial community in a sewage sludge digester. <i>Water Science and Technology</i> , 2014, 70, 819-827.	1.2	15
76	Conversion of Organic Carbon in Food Processing Wastewater to Photosynthetic Biomass in Photo-bioreactors Using Different Light Sources. <i>Environmental Engineering Research</i> , 2014, 19, 293-298.	1.5	21
77	Organic carbon recovery and photosynthetic bacteria population in an anaerobic membrane photo-bioreactor treating food processing wastewater. <i>Bioresource Technology</i> , 2013, 141, 65-74.	4.8	81
78	Photosynthetic bacteria production from food processing wastewater in sequencing batch and membrane photo-bioreactors. <i>Water Science and Technology</i> , 2012, 65, 504-512.	1.2	36
79	Carbon dioxide capture and nutrients removal utilizing treated sewage by concentrated microalgae cultivation in a membrane photobioreactor. <i>Bioresource Technology</i> , 2012, 125, 59-64.	4.8	105
80	Antibiotic resistance of <i>Escherichia coli</i> in leachates from municipal solid waste landfills: Comparison between semi-aerobic and anaerobic operations. <i>Bioresource Technology</i> , 2012, 113, 253-258.	4.8	84
81	Mixed land-use planning on the periphery of large Asian cities: the case of Nonthaburi Province, Thailand. <i>Sustainability Science</i> , 2010, 5, 237-248.	2.5	13
82	Impacts of housing development on nutrients flow along canals in a peri-urban area of Bangkok, Thailand. <i>Water Science and Technology</i> , 2010, 61, 1073-1080.	1.2	9
83	Municipal solid waste flow and waste generation characteristics in an urban-rural fringe area in Thailand. <i>Waste Management and Research</i> , 2009, 27, 951-960.	2.2	35
84	Photosynthetic bacteria pond system with infra-red transmitting filter for the treatment and recovery of organic carbon from industrial wastewater. <i>Water Science and Technology</i> , 2007, 56, 109-116.	1.2	20
85	Optimization of wastewater feeding for single-cell protein production in an anaerobic wastewater treatment process utilizing purple non-sulfur bacteria in mixed culture condition. <i>Journal of Biotechnology</i> , 2006, 125, 565-573.	1.9	38