

Hodon Ryu

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,641
citations

109137

35
h-index

143772

57
g-index

94
all docs

94
docs citations

94
times ranked

5067
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling urine for bioelectrochemical hydrogen production using a MoS ₂ nano carbon coated electrode in a microbial electrolysis cell. <i>Journal of Power Sources</i> , 2022, 527, 231209.	4.0	7
2	Ecological insights into assembly processes and network structures of bacterial biofilms in full-scale biologically active carbon filters under ozone implementation. <i>Science of the Total Environment</i> , 2021, 751, 141409.	3.9	16
3	Algal softening followed by ozonation: The fate of persistent micropollutants and natural organic matter in groundwater. <i>Journal of Hazardous Materials</i> , 2021, 402, 123480.	6.5	3
4	A strategy for power generation from bilgewater using a photosynthetic microalgal fuel cell (MAFC). <i>Journal of Power Sources</i> , 2021, 484, 229222.	4.0	10
5	Understanding Microbial Loads in Wastewater Treatment Works as Source Water for Water Reuse. <i>Water (Switzerland)</i> , 2021, 13, 1452.	1.2	5
6	Bacterial diversity and predicted enzymatic function in a multipurpose surface water system “from wastewater effluent discharges to drinking water production. <i>Environmental Microbiomes</i> , 2021, 16, 11.	2.2	17
7	Comparison of two culture methods for the enumeration of <i>Legionella pneumophila</i> from potable water samples. <i>Journal of Water and Health</i> , 2021, 19, 468-477.	1.1	11
8	Impact of algal organic matter on the performance, cyanotoxin removal, and biofilms of biologically-active filtration systems. <i>Water Research</i> , 2020, 184, 116120.	5.3	17
9	Assessing the chemical compositions and disinfection byproduct formation of biofilms: Application of fluorescence excitation-emission spectroscopy coupled with parallel factor analysis. <i>Chemosphere</i> , 2020, 246, 125745.	4.2	21
10	Design and evaluation of degassed anaerobic membrane biofilm reactors for improved methane recovery. <i>Bioresource Technology Reports</i> , 2020, 10, 100407.	1.5	10
11	Legionellosis and Recent Advances in Technologies for Legionella Control in Premise Plumbing Systems: A Review. <i>Water (Switzerland)</i> , 2020, 12, 676.	1.2	351
12	A proof of concept study for wastewater reuse using bioelectrochemical processes combined with complementary post-treatment technologies. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1489-1498.	1.2	11
13	Efficacy of Inactivation of Human Enteroviruses by Dual-Wavelength Germicidal Ultraviolet (UV-C) Light Emitting Diodes (LEDs). <i>Water (Switzerland)</i> , 2019, 11, 1131.	1.2	23
14	Treatment of reverse osmosis concentrate using an algal-based MBR combined with ozone pretreatment. <i>Water Research</i> , 2019, 159, 164-175.	5.3	33
15	Dynamics of the physiochemical and community structures of biofilms under the influence of algal organic matter and humic substances. <i>Water Research</i> , 2019, 158, 136-145.	5.3	24
16	Evaluation of predominant factor for shortcut biological nitrogen removal in sequencing batch reactor at ambient temperature. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1195-1204.	1.7	3
17	Survey of US wastewater for carbapenem-resistant <i>Enterobacteriaceae</i> . <i>Journal of Water and Health</i> , 2019, 17, 219-226.	1.1	32
18	Electrically heatable carbon nanotube point-of-use filters for effective separation and in-situ inactivation of <i>Legionella pneumophila</i> . <i>Chemical Engineering Journal</i> , 2019, 366, 21-26.	6.6	15

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19	The growth of <i>Scenedesmus quadricauda</i> in RO concentrate and the impacts on refractory organic matter, <i>Escherichia coli</i> , and trace organic compounds. <i>Water Research</i> , 2018, 134, 292-300.	5.3	18
20	Potential for gulls to transport bacteria from human waste sites to beaches. <i>Science of the Total Environment</i> , 2018, 615, 123-130.	3.9	58
21	Applicability of integrated cell culture reverse transcriptase quantitative PCR (ICC-RTqPCR) for the simultaneous detection of the four human enteric enterovirus species in disinfection studies. <i>Journal of Virological Methods</i> , 2018, 258, 35-40.	1.0	14
22	Categorical performance characteristics of method ISO 7899-2 and indicator value of intestinal enterococci for bathing water quality monitoring. <i>Journal of Water and Health</i> , 2018, 16, 711-723.	1.1	14
23	Multiscale investigation of a symbiotic microalgal-integrated fixed film activated sludge (MAIFAS) process for nutrient removal and photo-oxygenation. <i>Bioresource Technology</i> , 2018, 268, 128-138.	4.8	21
24	Quantification of the methane concentration using anaerobic oxidation of methane coupled to extracellular electron transfer. <i>Bioresource Technology</i> , 2017, 241, 979-984.	4.8	15
25	Heatable carbon nanotube composite membranes for sustainable recovery from biofouling. <i>Biofouling</i> , 2017, 33, 847-854.	0.8	5
26	Microbial activity influences electrical conductivity of biofilm anode. <i>Water Research</i> , 2017, 127, 230-238.	5.3	61
27	Evaluating UV-C LED disinfection performance and investigating potential dual-wavelength synergy. <i>Water Research</i> , 2017, 109, 207-216.	5.3	224
28	An Innovative Symbiotic Microalgae-IFAS Process for Nutrient Removal and Photo-oxygenation: Multiscale Investigations Using Microelectrodes and Next-generation Molecular Tools. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 161-169.	0.0	1
29	Diversity of ribosomal 16S DNA- and RNA-based bacterial community in an office building drinking water system. <i>Journal of Applied Microbiology</i> , 2016, 120, 1723-1738.	1.4	47
30	The influence of incubation time on adenovirus quantitation in A549 cells by most probable number. <i>Journal of Virological Methods</i> , 2016, 237, 200-203.	1.0	5
31	Ohmic resistance affects microbial community and electrochemical kinetics in a multi-anode microbial electrochemical cell. <i>Journal of Power Sources</i> , 2016, 331, 315-321.	4.0	39
32	High Biofilm Conductivity Maintained Despite Anode Potential Changes in a <i>Geobacter</i> -Enriched Biofilm. <i>ChemSusChem</i> , 2016, 9, 3485-3491.	3.6	31
33	The Roles of Biofilm Conductivity and Donor Substrate Kinetics in a Mixed-Culture Biofilm Anode. <i>Environmental Science & Technology</i> , 2016, 50, 12799-12807.	4.6	52
34	Applicability of UV resistant <i>Bacillus pumilus</i> endospores as a human adenovirus surrogate for evaluating the effectiveness of virus inactivation in low-pressure UV treatment systems. <i>Journal of Microbiological Methods</i> , 2016, 122, 43-49.	0.7	11
35	Biofilms on Hospital Shower Hoses: Characterization and Implications for Nosocomial Infections. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2872-2883.	1.4	102
36	Methods of Targeting Animal Sources of Fecal Pollution in Water. , 2015, , 3.4.4-1-3.4.4-28.		2

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37	Applicability of integrated cell culture quantitative PCR (ICC-qPCR) for the detection of infectious adenovirus type 2 in UV disinfection studies. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015, 50, 777-787.	0.9	17
38	Characterization and optimization of cathodic conditions for H ₂ O ₂ synthesis in microbial electrochemical cells. <i>Bioresource Technology</i> , 2015, 195, 31-36.	4.8	51
39	Distribution of Human-Specific Bacteroidales and Fecal Indicator Bacteria in an Urban Watershed Impacted by Sewage Pollution, Determined Using RNA- and DNA-Based Quantitative PCR Assays. <i>Applied and Environmental Microbiology</i> , 2015, 81, 91-99.	1.4	44
40	Microbial Fuel Cells as Discontinuous Portable Power Sources: Syntrophic Interactions with Anode-Respiring Bacteria. <i>ChemSusChem</i> , 2014, 7, 1026-1029.	3.6	19
41	Microbial Community Response to Chlorine Conversion in a Chloraminated Drinking Water Distribution System. <i>Environmental Science & Technology</i> , 2014, 48, 10624-10633.	4.6	87
42	Gastro-intestinal microbiota of two migratory shorebird species during spring migration staging in Delaware Bay, USA. <i>Journal of Ornithology</i> , 2014, 155, 969-977.	0.5	42
43	Effects of urban stream burial on organic matter dynamics and reach scale nitrate retention. <i>Biogeochemistry</i> , 2014, 121, 107-126.	1.7	48
44	Intestinal Microbiota and Species Diversity of <i>Campylobacter</i> and <i>Helicobacter</i> spp. in Migrating Shorebirds in Delaware Bay. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1838-1847.	1.4	58
45	Syntrophic interactions between H ₂ -scavenging and anode-respiring bacteria can improve current density in microbial electrochemical cells. <i>Bioresource Technology</i> , 2014, 153, 245-253.	4.8	68
46	Comparison of two poultry litter qPCR assays targeting the 16S rRNA gene of <i>Brevibacterium</i> sp.. <i>Water Research</i> , 2014, 48, 613-621.	5.3	16
47	Novel Microbiological and Spatial Statistical Methods to Improve Strength of Epidemiological Evidence in a Community-Wide Waterborne Outbreak. <i>PLoS ONE</i> , 2014, 9, e104713.	1.1	35
48	Functional microbial diversity explains groundwater chemistry in a pristine aquifer. <i>BMC Microbiology</i> , 2013, 13, 146.	1.3	151
49	Impacts of Migratory Sandhill Cranes (<i>Grus canadensis</i>) on Microbial Water Quality in the Central Platte River, Nebraska, USA. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	19
50	Molecular Detection of <i>Campylobacter</i> spp. and Fecal Indicator Bacteria during the Northern Migration of Sandhill Cranes (<i>Grus canadensis</i>) at the Central Platte River. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3762-3769.	1.4	23
51	Detection of Fecal Bacteria and Source Tracking Identifiers in Environmental Waters Using rRNA-Based RT-qPCR and rDNA-Based qPCR Assays. <i>Environmental Science & Technology</i> , 2013, 47, 13611-13620.	4.6	58
52	The Impact of Silver Nanoparticles on the Composting of Municipal Solid Waste. <i>Environmental Science & Technology</i> , 2013, 47, 14385-14393.	4.6	47
53	Evaluation of the repeatability and reproducibility of a suite of qPCR-based microbial source tracking methods. <i>Water Research</i> , 2013, 47, 6839-6848.	5.3	56
54	Multi-laboratory evaluations of the performance of <i>Catellibacoccus marimammalium</i> PCR assays developed to target gull fecal sources. <i>Water Research</i> , 2013, 47, 6883-6896.	5.3	58

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55	Determining Hot Spots of Fecal Contamination in a Tropical Watershed by Combining Land-Use Information and Meteorological Data with Source-Specific Assays. <i>Environmental Science & Technology</i> , 2013, 47, 5794-5802.	4.6	20
56	Effects of Stock Use and Backpackers on Water Quality in Wilderness in Sequoia and Kings Canyon National Parks, USA. <i>Environmental Management</i> , 2013, 52, 1400-1414.	1.2	8
57	Development of Quantitative PCR Assays Targeting the 16S rRNA Genes of <i>Enterococcus</i> spp. and Their Application to the Identification of <i>Enterococcus</i> Species in Environmental Samples. <i>Applied and Environmental Microbiology</i> , 2013, 79, 196-204.	1.4	72
58	Tracking the Primary Sources of Fecal Pollution in a Tropical Watershed in a One-Year Study. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1689-1696.	1.4	21
59	Draft Genome Sequence of <i>Catellibacterium marimammalium</i> , a Novel Species Commonly Found in Gull Feces. <i>Genome Announcements</i> , 2013, 1, .	0.8	9
60	Comparison of Gull Feces-Specific Assays Targeting the 16S rRNA Genes of <i>Catellibacterium marimammalium</i> and <i>Streptococcus</i> spp. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1909-1916.	1.4	57
61	Development and Evaluation of a Quantitative PCR Assay Targeting Sandhill Crane (<i>Grus canadensis</i>) Fecal Pollution. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4338-4345.	1.4	27
62	Distribution systems as reservoirs of <i>Naegleria fowleri</i> and other amoebae. <i>Journal - American Water Works Association</i> , 2012, 104, E66.	0.2	11
63	Dramatic Improvements in Beach Water Quality Following Gull Removal. <i>Environmental Science & Technology</i> , 2012, 46, 10206-10213.	4.6	80
64	Microbial Quality of Tropical Inland Waters and Effects of Rainfall Events. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5160-5169.	1.4	29
65	Enhanced lipid and biodiesel production from glucose-activated sludge: Kinetics and microbial community analysis. <i>AIChE Journal</i> , 2012, 58, 1279-1290.	1.8	44
66	Application of leftover sample material from waterborne protozoa monitoring for the molecular detection of Bacteroidales and fecal source tracking markers. <i>Journal of Microbiological Methods</i> , 2011, 86, 337-343.	0.7	9
67	Distribution and potential significance of a gull fecal marker in urban coastal and riverine areas of southern Ontario, Canada. <i>Water Research</i> , 2011, 45, 3960-3968.	5.3	42
68	Molecular Detection of <i>Campylobacter</i> spp. in California Gull (<i>Larus californicus</i>) Excreta. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5034-5039.	1.4	34
69	Potential Removal and Release of Nanomaterials from Wastewater Treatment Plants. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 899-905.	0.0	0
70	Development and validation of an integrated cell culture-qRT-PCR assay for simultaneous quantification of coxsackieviruses, echoviruses, and polioviruses in disinfection studies. <i>Water Science and Technology</i> , 2010, 61, 375-387.	1.2	10
71	Applicability of quantitative PCR for determination of removal efficacy of enteric viruses and <i>Cryptosporidium</i> by water treatment processes. <i>Journal of Water and Health</i> , 2010, 8, 101-108.	1.1	8
72	Biosorption of nanoparticles to heterotrophic wastewater biomass. <i>Water Research</i> , 2010, 44, 4105-4114.	5.3	243

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73	Identification of microbial faecal sources in the New River in the United States-Mexican border region. <i>Journal of Water and Health</i> , 2009, 7, 267-275.	1.1	5
74	Lack of specificity for PCR assays targeting human <i>Bacteroides</i> 16S rRNA gene: cross-amplification with fish feces. <i>FEMS Microbiology Letters</i> , 2009, 299, 38-43.	0.7	22
75	Riverbank Filtration: Comparison of Pilot Scale Transport with Theory. <i>Environmental Science & Technology</i> , 2009, 43, 669-676.	4.6	35
76	A comparison of pilot-scale photocatalysis and enhanced coagulation for disinfection byproduct mitigation. <i>Water Research</i> , 2009, 43, 1597-1610.	5.3	70
77	Photocatalytic inactivation of <i>Cryptosporidium parvum</i> with TiO ₂ and low-pressure ultraviolet irradiation. <i>Water Research</i> , 2008, 42, 1523-1530.	5.3	64
78	Photocatalytic inactivation of viruses using titanium dioxide nanoparticles and low-pressure UV light. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008, 43, 1261-1270.	0.9	90
79	UV inactivation of Adenovirus Type 4 measured by integrated cell culture qPCR. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008, 43, 1628-1638.	0.9	15
80	Treatability of U.S. Environmental Protection Agency Contaminant Candidate List Viruses: Removal of Coxsackievirus and Echovirus using Enhanced Coagulation. <i>Environmental Science & Technology</i> , 2008, 42, 6890-6896.	4.6	37
81	Removal of adenovirus, calicivirus, and bacteriophages by conventional drinking water treatment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008, 43, 171-177.	0.9	21
82	Long-term study of <i>Cryptosporidium</i> and <i>Giardia</i> occurrence and quantitative microbial risk assessment in surface waters of Arizona in the USA. <i>Journal of Water and Health</i> , 2008, 6, 263-273.	1.1	27
83	Technical Note: A guide for optimizing sample volume for the detection of <i>Cryptosporidium</i> oocysts by USEPA method 1622. <i>Journal - American Water Works Association</i> , 2007, 99, 107-109.	0.2	0
84	Efficacy of Removal of CCL Viruses under Enhanced Coagulation Conditions. <i>Environmental Science & Technology</i> , 2007, 41, 971-977.	4.6	48
85	Assessment of the risk of infection by <i>Cryptosporidium</i> and <i>Giardia</i> in non-potable reclaimed water. <i>Water Science and Technology</i> , 2007, 55, 283-290.	1.2	110
86	Community structure and function in a H ₂ -based membrane biofilm reactor capable of bioreduction of selenate and chromate. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 1330-1339.	1.7	47
87	Removal and Inactivation of <i>Cryptosporidium</i> and Microbial Indicators by a Quaternary Ammonium Chloride (QAC)-Treated Zeolite in Pilot Filters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006, 41, 1201-1210.	0.9	14
88	An assessment of water quality and microbial risk in Rio Grande basin in the United States-Mexican border region. <i>Journal of Water and Health</i> , 2005, 3, 209-218.	1.1	8
89	Microbial Characterization and Population Changes in Nonpotable Reclaimed Water Distribution Systems. <i>Environmental Science & Technology</i> , 2005, 39, 8600-8605.	4.6	41
90	An assessment of water quality and microbial risk in Rio Grande Basin in the United States-Mexican border region. <i>Journal of Water and Health</i> , 2005, 3, 209-18.	1.1	3

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91	Removal of Encephalitozoon intestinalis, Calicivirus, and Coliphages by Conventional Drinking Water Treatment. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2003, 38, 1259-1268.	0.9	32
92	MICROBIAL QUALITY IN WATER SOURCES USED FOR DRINKING WATER IN THE PHOENIX METROPOLITAN AREA. Proceedings of the Water Environment Federation, 2003, 2003, 574-587.	0.0	1
93	MICROORGANISMS IN NON-POTABLE RECLAIMED WATER DISTRIBUTION SYSTEMS IN THE SOUTHWESTERN UNITED STATES. Proceedings of the Water Environment Federation, 2003, 2003, 196-209.	0.0	0