Hodon Ryu

List of Publications by Year
in descending order

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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	Legionellosis and Recent Advances in Technologies for Legionella Control in Premise Plumbing Systems: A Review. Water (Switzerland), 2020, 12, 676.	1.2	351
2	Biosorption of nanoparticles to heterotrophic wastewater biomass. Water Research, 2010, 44, 4105-4114.	5.3	243
3	Evaluating UV-C LED disinfection performance and investigating potential dual-wavelength synergy. Water Research, 2017, 109, 207-216.	5.3	224
4	Functional microbial diversity explains groundwater chemistry in a pristine aquifer. BMC Microbiology, 2013, 13, 146.	1.3	151
5	Assessment of the risk of infection by Cryptosporidium and Giardia in non-potable reclaimed water. Water Science and Technology, 2007, 55, 283-290.	1.2	110
6	Biofilms on Hospital Shower Hoses: Characterization and Implications for Nosocomial Infections. Applied and Environmental Microbiology, 2016, 82, 2872-2883.	1.4	102
7	Photocatalytic inactivation of viruses using titanium dioxide nanoparticles and low-pressure UV light. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 1261-1270.	0.9	90
8	Microbial Community Response to Chlorine Conversion in a Chloraminated Drinking Water Distribution System. Environmental Science & Technology, 2014, 48, 10624-10633.	4.6	87
9	Dramatic Improvements in Beach Water Quality Following Gull Removal. Environmental Science & Technology, 2012, 46, 10206-10213.	4.6	80
10	Development of Quantitative PCR Assays Targeting the 16S rRNA Genes of Enterococcus spp. and Their Application to the Identification of Enterococcus Species in Environmental Samples. Applied and Environmental Microbiology, 2013, 79, 196-204.	1.4	72
11	A comparison of pilot-scale photocatalysis and enhanced coagulation for disinfection byproduct mitigation. Water Research, 2009, 43, 1597-1610.	5.3	70
12	Syntrophic interactions between H2-scavenging and anode-respiring bacteria can improve current density in microbial electrochemical cells. Bioresource Technology, 2014, 153, 245-253.	4.8	68
13	Photocatalytic inactivation of Cryptosporidium parvum with TiO2 and low-pressure ultraviolet irradiation. Water Research, 2008, 42, 1523-1530.	5.3	64
14	Microbial activity influences electrical conductivity of biofilm anode. Water Research, 2017, 127, 230-238.	5.3	61
15	Detection of Fecal Bacteria and Source Tracking Identifiers in Environmental Waters Using rRNA-Based RT-qPCR and rDNA-Based qPCR Assays. Environmental Science & Technology, 2013, 47, 13611-13620.	4.6	58
16	Multi-laboratory evaluations of the performance of Catellicoccus marimammalium PCR assays developed to target gull fecal sources. Water Research, 2013, 47, 6883-6896.	5.3	58
17	Intestinal Microbiota and Species Diversity of Campylobacter and Helicobacter spp. in Migrating Shorebirds in Delaware Bay. Applied and Environmental Microbiology, 2014, 80, 1838-1847.	1.4	58
18	Potential for gulls to transport bacteria from human waste sites to beaches. Science of the Total Environment, 2018, 615, 123-130.	3.9	58

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19	Comparison of Gull Feces-Specific Assays Targeting the 16S rRNA Genes of Catellicoccus marimammalium and Streptococcus spp. Applied and Environmental Microbiology, 2012, 78, 1909-1916.	1.4	57
20	Evaluation of the repeatability and reproducibility of a suite of qPCR-based microbial source tracking methods. Water Research, 2013, 47, 6839-6848.	5.3	56
21	The Roles of Biofilm Conductivity and Donor Substrate Kinetics in a Mixed-Culture Biofilm Anode. Environmental Science & Technology, 2016, 50, 12799-12807.	4.6	52
22	Characterization and optimization of cathodic conditions for H 2 O 2 synthesis in microbial electrochemical cells. Bioresource Technology, 2015, 195, 31-36.	4.8	51
23	Efficacy of Removal of CCL Viruses under Enhanced Coagulation Conditions. Environmental Science & Technology, 2007, 41, 971-977.	4.6	48
24	Effects of urban stream burial on organic matter dynamics and reach scale nitrate retention. Biogeochemistry, 2014, 121, 107-126.	1.7	48
25	Community structure and function in a H2-based membrane biofilm reactor capable of bioreduction of selenate and chromate. Applied Microbiology and Biotechnology, 2006, 72, 1330-1339.	1.7	47
26	The Impact of Silver Nanoparticles on the Composting of Municipal Solid Waste. Environmental Science & Technology, 2013, 47, 14385-14393.	4.6	47
27	Diversity of ribosomal 16S DNA- and RNA-based bacterial community in an office building drinking water system. Journal of Applied Microbiology, 2016, 120, 1723-1738.	1.4	47
28	Enhanced lipid and biodiesel production from glucoseâ€fed activated sludge: Kinetics and microbial community analysis. AICHE Journal, 2012, 58, 1279-1290.	1.8	44
29	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. Applied and Environmental Microbiology, 2015, 81, 91-99.	1.4	44
30	Distribution and potential significance of a gull fecal marker in urban coastal and riverine areas of southern Ontario, Canada. Water Research, 2011, 45, 3960-3968.	5.3	42
31	Gastro-intestinal microbiota of two migratory shorebird species during spring migration staging in Delaware Bay, USA. Journal of Ornithology, 2014, 155, 969-977.	0.5	42
32	Microbial Characterization and Population Changes in Nonpotable Reclaimed Water Distribution Systems. Environmental Science & Technology, 2005, 39, 8600-8605.	4.6	41
33	Ohmic resistance affects microbial community and electrochemical kinetics in a multi-anode microbial electrochemical cell. Journal of Power Sources, 2016, 331, 315-321.	4.0	39
34	Treatability of U.S. Environmental Protection Agency Contaminant Candidate List Viruses: Removal of Coxsackievirus and Echovirus using Enhanced Coagulation. Environmental Science & Technology, 2008, 42, 6890-6896.	4.6	37
35	Riverbank Filtration: Comparison of Pilot Scale Transport with Theory. Environmental Science & Technology, 2009, 43, 669-676.	4.6	35
36	Novel Microbiological and Spatial Statistical Methods to Improve Strength of Epidemiological Evidence in a Community-Wide Waterborne Outbreak. PLoS ONE, 2014, 9, e104713.	1.1	35

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37	Molecular Detection of Campylobacter spp. in California Gull (Larus californicus) Excreta. Applied and Environmental Microbiology, 2011, 77, 5034-5039.	1.4	34
38	Treatment of reverse osmosis concentrate using an algal-based MBR combined with ozone pretreatment. Water Research, 2019, 159, 164-175.	5.3	33
39	Removal ofEncephalitozoonintestinalis, 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
40	Survey of US wastewater for carbapenem-resistant Enterobacteriaceae. Journal of Water and Health, 2019, 17, 219-226.	1.1	32
41	High Biofilm Conductivity Maintained Despite Anode Potential Changes in a Geobacterâ€Enriched Biofilm. ChemSusChem, 2016, 9, 3485-3491.	3.6	31
42	Microbial Quality of Tropical Inland Waters and Effects of Rainfall Events. Applied and Environmental Microbiology, 2012, 78, 5160-5169.	1.4	29
43	Long-term study of Cryptosporidium and Giardia occurrence and quantitative microbial risk assessment in surface waters of Arizona in the USA. Journal of Water and Health, 2008, 6, 263-273.	1.1	27
44	Development and Evaluation of a Quantitative PCR Assay Targeting Sandhill Crane (Grus canadensis) Fecal Pollution. Applied and Environmental Microbiology, 2012, 78, 4338-4345.	1.4	27
45	Dynamics of the physiochemical and community structures of biofilms under the influence of algal organic matter and humic substances. Water Research, 2019, 158, 136-145.	5.3	24
46	Molecular Detection of Campylobacter spp. and Fecal Indicator Bacteria during the Northern Migration of Sandhill Cranes (Grus canadensis) at the Central Platte River. Applied and Environmental Microbiology, 2013, 79, 3762-3769.	1.4	23
47	Efficacy of Inactivation of Human Enteroviruses by Dual-Wavelength Germicidal Ultraviolet (UV-C) Light Emitting Diodes (LEDs). Water (Switzerland), 2019, 11, 1131.	1.2	23
48	Lack of specificity for PCR assays targeting humanBacteroides16S rRNA gene: cross-amplification with fish feces. FEMS Microbiology Letters, 2009, 299, 38-43.	0.7	22
49	Removal of adenovirus, calicivirus, and bacteriophages by conventional drinking water treatment. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 171-177.	0.9	21
50	Tracking the Primary Sources of Fecal Pollution in a Tropical Watershed in a One-Year Study. Applied and Environmental Microbiology, 2013, 79, 1689-1696.	1.4	21
51	Multiscale investigation of a symbiotic microalgal-integrated fixed film activated sludge (MAIFAS) process for nutrient removal and photo-oxygenation. Bioresource Technology, 2018, 268, 128-138.	4.8	21
52	Assessing the chemical compositions and disinfection byproduct formation of biofilms: Application of fluorescence excitation-emission spectroscopy coupled with parallel factor analysis. Chemosphere, 2020, 246, 125745.	4.2	21
53	Determining Hot Spots of Fecal Contamination in a Tropical Watershed by Combining Land-Use Information and Meteorological Data with Source-Specific Assays. Environmental Science & Technology, 2013, 47, 5794-5802.	4.6	20
54	Impacts of Migratory Sandhill Cranes (Grus canadensis) on Microbial Water Quality in the Central Platte River, Nebraska, USA. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	19

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55	Microbial Fuel Cells as Discontinuous Portable Power Sources: Syntropic Interactions with Anodeâ€Respiring Bacteria. ChemSusChem, 2014, 7, 1026-1029.	3.6	19
56	The growth of Scenedesmus quadricauda in RO concentrate and the impacts on refractory organic matter, Escherichia coli, and trace organic compounds. Water Research, 2018, 134, 292-300.	5.3	18
57	Applicability of integrated cell culture quantitative PCR (ICC-qPCR) for the detection of infectious adenovirus type 2 in UV disinfection studies. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 777-787.	0.9	17
58	Impact of algal organic matter on the performance, cyanotoxin removal, and biofilms of biologically-active filtration systems. Water Research, 2020, 184, 116120.	5.3	17
59	Bacterial diversity and predicted enzymatic function in a multipurpose surface water system â€“ from wastewater effluent discharges to drinking water production. Environmental Microbiomes, 2021, 16, 11.	2.2	17
60	Comparison of two poultry litter qPCR assays targeting the 16S rRNA gene of Brevibacterium sp.. Water Research, 2014, 48, 613-621.	5.3	16
61	Ecological insights into assembly processes and network structures of bacterial biofilms in full-scale biologically active carbon filters under ozone implementation. Science of the Total Environment, 2021, 751, 141409.	3.9	16
62	UV inactivation of Adenovirus Type 4 measured by integrated cell culture qPCR. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 1628-1638.	0.9	15
63	Quantification of the methane concentration using anaerobic oxidation of methane coupled to extracellular electron transfer. Bioresource Technology, 2017, 241, 979-984.	4.8	15
64	Electrically heatable carbon nanotube point-of-use filters for effective separation and in-situ inactivation of Legionella pneumophila. Chemical Engineering Journal, 2019, 366, 21-26.	6.6	15
65	Removal and Inactivation ofCryptosporidiumand Microbial Indicators by a Quaternary Ammonium Chloride (QAC)-Treated Zeolite in Pilot Filters. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 1201-1210.	0.9	14
66	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. Journal of Virological Methods, 2018, 258, 35-40.	1.0	14
67	Categorical performance characteristics of method ISO 7899-2 and indicator value of intestinal enterococci for bathing water quality monitoring. Journal of Water and Health, 2018, 16, 711-723.	1.1	14
68	Distribution systems as reservoirs of Naegleria fowleri and other amoebae. Journal - American Water Works Association, 2012, 104, E66.	0.2	11
69	Applicability of UV resistant Bacillus pumilus endospores as a human adenovirus surrogate for evaluating the effectiveness of virus inactivation in low-pressure UV treatment systems. Journal of Microbiological Methods, 2016, 122, 43-49.	0.7	11
70	A proof of concept study for wastewater reuse using bioelectrochemical processes combined with complementary post-treatment technologies. Environmental Science: Water Research and Technology, 2019, 5, 1489-1498.	1.2	11
71	Comparison of two culture methods for the enumeration of Legionella pneumophila from potable water samples. Journal of Water and Health, 2021, 19, 468-477.	1.1	11
72	Development and validation of an integrated cell culture-qRTPCR assay for simultaneous quantification of coxsackieviruses, echoviruses, and polioviruses in disinfection studies. Water Science and Technology, 2010, 61, 375-387.	1.2	10

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73	Design and evaluation of degassed anaerobic membrane biofilm reactors for improved methane recovery. Bioresource Technology Reports, 2020, 10, 100407.	1.5	10
74	A strategy for power generation from bilgewater using a photosynthetic microalgal fuel cell (MAFC). Journal of Power Sources, 2021, 484, 229222.	4.0	10
75	Application of leftover sample material from waterborne protozoa monitoring for the molecular detection of Bacteroidales and fecal source tracking markers. Journal of Microbiological Methods, 2011, 86, 337-343.	0.7	9
76	Draft Genome Sequence of Catellicoccus marimammalium, a Novel Species Commonly Found in Gull Feces. Genome Announcements, 2013, 1, .	0.8	9
77	An assessment of water quality and microbial risk in Rio Grande basin in the United Statesâ€“Mexican border region. Journal of Water and Health, 2005, 3, 209-218.	1.1	8
78	Applicability of quantitative PCR for determination of removal efficacy of enteric viruses and Cryptosporidium by water treatment processes. Journal of Water and Health, 2010, 8, 101-108.	1.1	8
79	Effects of Stock Use and Backpackers on Water Quality in Wilderness in Sequoia and Kings Canyon National Parks, USA. Environmental Management, 2013, 52, 1400-1414.	1.2	8
80	Recycling urine for bioelectrochemical hydrogen production using a MoS2 nano carbon coated electrode in a microbial electrolysis cell. Journal of Power Sources, 2022, 527, 231209.	4.0	7
81	Identification of microbial faecal sources in the New River in the United Statesâ€“Mexican border region. Journal of Water and Health, 2009, 7, 267-275.	1.1	5
82	The influence of incubation time on adenovirus quantitation in A549 cells by most probable number. Journal of Virological Methods, 2016, 237, 200-203.	1.0	5
83	Heatable carbon nanotube composite membranes for sustainable recovery from biofouling. Biofouling, 2017, 33, 847-854.	0.8	5
84	Understanding Microbial Loads in Wastewater Treatment Works as Source Water for Water Reuse. Water (Switzerland), 2021, 13, 1452.	1.2	5
85	Evaluation of predominant factor for shortcut biological nitrogen removal in sequencing batch reactor at ambient temperature. Bioprocess and Biosystems Engineering, 2019, 42, 1195-1204.	1.7	3
86	Algal softening followed by ozonation: The fate of persistent micropollutants and natural organic matter in groundwater. Journal of Hazardous Materials, 2021, 402, 123480.	6.5	3
87	An assessment of water quality and microbial risk in Rio Grande Basin in the United States-Mexican border region. Journal of Water and Health, 2005, 3, 209-18.	1.1	3
88	Methods of Targeting Animal Sources of Fecal Pollution in Water. , 2015, , 3.4.4-1-3.4.4-28.		2
89	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
90	An Innovative Symbiotic Microalgae-IFAS Process for Nutrient Removal and Photo-oxygenation: Multiscale Investigations Using Microelectrodes and Next-generation Molecular Tools. Proceedings of the Water Environment Federation, 2017, 2017, 161-169.	0.0	1

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91	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
92	Technical Note: A guide for optimizing sample volume for the detection of Cryptosporidium oocysts by USEPA method 1622. Journal - American Water Works Association, 2007, 99, 107-109.	0.2	0
93	Potential Removal and Release of Nanomaterials from Wastewater Treatment Plants. Proceedings of the Water Environment Federation, 2010, 2010, 899-905.	0.0	0