Simon Toze

List of Publications by Year in descending order

112 papers	5,727 citations	66315 42 h-index	82499 72 g-index
112 all docs	112 docs citations	112 times ranked	6265 citing authors

#	Article	IF	Citations
1	Reuse of effluent waterâ€”benefits and risks. Agricultural Water Management, 2006, 80, 147-159.	2.4	489
2	Evolutionary relationships among ammonia- and nitrite-oxidizing bacteria. Journal of Bacteriology, 1994, 176, 6623-6630.	1.0	401
3	Human pathogens and their indicators in biosolids: A literature review. Environment International, 2009, 35, 187-201.	4.8	203
4	PCR and the detection of microbial pathogens in water and wastewater. Water Research, 1999, 33, 3545-3556.	5.3	193
5	Prevalence of Clinically Relevant Antibiotic Resistance Genes in Surface Water Samples Collected from Germany and Australia. Environmental Science & Technology, 2012, 46, 9716-9726.	4.6	178
6	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. Science of the Total Environment, 2022, 805, 149877.	3.9	153
7	Sewage pollution in urban stormwater runoff as evident from the widespread presence of multiple microbial and chemical source tracking markers. Science of the Total Environment, 2013, 463-464, 488-496.	3.9	152
8	Microbiological Quality of Roofâ€Harvested Rainwater and Health Risks: A Review. Journal of Environmental Quality, 2011, 40, 13-21.	1.0	139
9	Salmonella in surface and drinking water: Occurrence and water-mediated transmission. Food Research International, 2012, 45, 587-602.	2.9	138
10	Comparative removal of antibiotic resistance genes during chlorination, ozonation, and UV treatment. International Journal of Hygiene and Environmental Health, 2019, 222, 541-548.	2.1	128
11	Prevalence of human pathogens and indicators in stormwater runoff in Brisbane, Australia. Water Research, 2012, 46, 6652-6660.	5.3	125
12	Water quality assessment using the AREc32 reporter gene assay indicative of the oxidative stress response pathway. Journal of Environmental Monitoring, 2012, 14, 2877.	2.1	111
13	Comparison of Concentration Methods for Quantitative Detection of Sewage-Associated Viral Markers in Environmental Waters. Applied and Environmental Microbiology, 2015, 81, 2042-2049.	1.4	111
14	Managed aquifer recharge of treated wastewater: Water quality changes resulting from infiltration through the vadose zone. Water Research, 2011, 45, 5764-5772.	5.3	95
15	Bioanalytical tools for the evaluation of organic micropollutants during sewage treatment, water recycling and drinking water generation. Water Research, 2011, 45, 4238-4247.	5.3	94
16	Influence of groundwater characteristics on the survival of enteric viruses. Journal of Applied Microbiology, 2003, 95, 536-544.	1.4	92
17	The Biogeography and Phylogeny of Unicellular Cyanobacterial Symbionts in Sponges from Australia and the Mediterranean. Microbial Ecology, 2004, 48, 167-177.	1.4	92
18	Water reuse and health risks â€" real vs. perceived. Desalination, 2006, 187, 41-51.	4.0	86

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19	Managed aquifer recharge: rediscovering nature as a leading edge technology. Water Science and Technology, 2010, 62, 2338-2345.	1.2	86
20	A review on microbial contaminants in stormwater runoff and outfalls: Potential health risks and mitigation strategies. Science of the Total Environment, 2019, 692, 1304-1321.	3.9	85
21	Role of aquifer storage in water reuse. Desalination, 2006, 188, 123-134.	4.0	82
22	Use of static Quantitative Microbial Risk Assessment to determine pathogen risks in an unconfined carbonate aquifer used for Managed Aquifer Recharge. Water Research, 2010, 44, 1038-1049.	5.3	82
23	Decay of endocrine-disrupting chemicals in aerobic and anoxic groundwater. Water Research, 2008, 42, 1133-1141.	5.3	80
24	Opportunistic pathogens in roof-captured rainwater samples, determined using quantitative PCR. Water Research, 2014, 53, 361-369.	5.3	77
25	Persistence of biofilm-associated Escherichia coli and Pseudomonas aeruginosa in groundwater and treated effluent in a laboratory model system. Microbiology (United Kingdom), 2003, 149, 47-55.	0.7	73
26	Fecal Indicators and Zoonotic Pathogens in Household Drinking Water Taps Fed from Rainwater Tanks in Southeast Queensland, Australia. Applied and Environmental Microbiology, 2012, 78, 219-226.	1.4	72
27	Occurrence of Virulence Genes Associated with Diarrheagenic Pathotypes in Escherichia coli Isolates from Surface Water. Applied and Environmental Microbiology, 2013, 79, 328-335.	1.4	68
28	Toolbox Approaches Using Molecular Markers and 16S rRNA Gene Amplicon Data Sets for Identification of Fecal Pollution in Surface Water. Applied and Environmental Microbiology, 2015, 81, 7067-7077.	1.4	68
29	Escherichia colisurvival in groundwater and effluent measured using a combination of propidium iodide and the green fluorescent protein. Journal of Applied Microbiology, 2002, 93, 69-76.	1.4	61
30	Antibiotic resistance and virulence genes in coliform water isolates. International Journal of Hygiene and Environmental Health, 2016, 219, 823-831.	2.1	58
31	Behaviour and fate of nine recycled water trace organics during managed aquifer recharge in an aerobic aquifer. Journal of Contaminant Hydrology, 2011, 122, 53-62.	1.6	55
32	Relative inactivation of faecal indicator bacteria and sewage markers in freshwater and seawater microcosms. Letters in Applied Microbiology, 2014, 59, 348-354.	1.0	54
33	Risk Assessment of Aquifer Storage Transfer and Recovery with Urban Stormwater for Producing Water of a Potable Quality. Journal of Environmental Quality, 2010, 39, 2029-2039.	1.0	53
34	Valuing the subsurface pathogen treatment barrier in water recycling via aquifers for drinking supplies. Water Research, 2010, 44, 1841-1852.	5.3	51
35	Human health risks for Legionella and Mycobacterium avium complex (MAC) from potable and non-potable uses of roof-harvested rainwater. Water Research, 2017, 119, 288-303.	5.3	51
36	Comparative enteric viruses and coliphage removal during wastewater treatment processes in a sub-tropical environment. Science of the Total Environment, 2018, 616-617, 669-677.	3.9	50

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37	Inhibition of growth ofLegionella species by heterotrophic plate count bacteria isolated from chlorinated drinking water. Current Microbiology, 1990, 21, 139-143.	1.0	48
38	Inter-generational transmission of microbial symbionts in the marine sponge Chondrilla australiensis (Demospongiae). Marine and Freshwater Research, 2005, 56, 125.	0.7	47
39	Evaluation of Bovine Feces-Associated Microbial Source Tracking Markers and Their Correlations with Fecal Indicators and Zoonotic Pathogens in a Brisbane, Australia, Reservoir. Applied and Environmental Microbiology, 2013, 79, 2682-2691.	1.4	46
40	Amplicon-based taxonomic characterization of bacteria in urban and peri-urban roof-harvested rainwater stored in tanks. Science of the Total Environment, 2017, 576, 326-334.	3.9	46
41	Pathogen Decay during Managed Aquifer Recharge at Four Sites with Different Geochemical Characteristics and Recharge Water Sources. Journal of Environmental Quality, 2015, 44, 1402-1412.	1.0	45
42	Distributions of Fecal Markers in Wastewater from Different Climatic Zones for Human Fecal Pollution Tracking in Australian Surface Waters. Applied and Environmental Microbiology, 2016, 82, 1316-1323.	1.4	45
43	Sexual reproduction in Chondrilla australiensis (Porifera:Demospongiae). Marine and Freshwater Research, 2004, 55, 123.	0.7	44
44	A critical evaluation of combined engineered and aquifer treatment systems in water recycling. Water Science and Technology, 2008, 57, 753-762.	1.2	44
45	Quantitative PCR measurements of Escherichia coli including Shiga Toxin-Producing E. coli (STEC) in Animal Feces and Environmental Waters. Environmental Science & Technology, 2015, 49, 3084-3090.	4.6	42
46	Public health implications of Acanthamoeba and multiple potential opportunistic pathogens in roof-harvested rainwater tanks. Environmental Research, 2016, 150, 320-327.	3.7	41
47	Consistency in the host specificity and host sensitivity of the Bacteroides HF183 marker for sewage pollution tracking. Letters in Applied Microbiology, 2012, 55, 283-289.	1.0	40
48	Occurrence of Intestinal and Extraintestinal Virulence Genes in Escherichia coli Isolates from Rainwater Tanks in Southeast Queensland, Australia. Applied and Environmental Microbiology, 2011, 77, 7394-7400.	1.4	39
49	Urban stormwater harvesting and reuse: a probe into the chemical, toxicology and microbiological contaminants in water quality. Environmental Monitoring and Assessment, 2013, 185, 6645-6652.	1.3	39
50	Pathogen inactivation during passage of stormwater through a constructed reedbed and aquifer transfer, storage and recovery. Water Science and Technology, 2010, 62, 1190-1197.	1.2	36
51	Sensitive genotyping ofCryptosporidium parvumby PCR-RFLP analysis of the 70-kilodalton heat shock protein (HSP70) gene. FEMS Microbiology Letters, 2001, 200, 37-41.	0.7	35
52	Evaluation of the nifH Gene Marker of Methanobrevibacter smithii for the Detection of Sewage Pollution in Environmental Waters in Southeast Queensland, Australia. Environmental Science & Technology, 2012, 46, 543-550.	4.6	34
53	Amplicon-based profiling of bacteria in raw and secondary treated wastewater from treatment plants across Australia. Applied Microbiology and Biotechnology, 2017, 101, 1253-1266.	1.7	34
54	Assessment of pathogen survival potential during managed aquifer recharge with diffusion chambers. Journal of Applied Microbiology, 2012, 113, 693-700.	1.4	32

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55	An Attempt to Identify the Likely Sources of Escherichia coli Harboring Toxin Genes in Rainwater Tanks. Environmental Science & Technology, 2012, 46, 5193-5197.	4.6	32
56	Seasonal Assessment of Opportunistic Premise Plumbing Pathogens in Roof-Harvested Rainwater Tanks. Environmental Science & Technology, 2017, 51, 1742-1753.	4.6	31
57	Utility of Helicobacter spp. associated GFD markers for detecting avian fecal pollution in natural waters of two continents. Water Research, 2016, 88, 613-622.	5.3	30
58	Escherichia coli and Enterococcus spp. in Rainwater Tank Samples: Comparison of Culture-Based Methods and 23S rRNA Gene Quantitative PCR Assays. Environmental Science & Technology, 2012, 46, 11370-11376.	4.6	29
59	Characterising aquifer treatment for pathogens in managed aquifer recharge. Water Science and Technology, 2010, 62, 2009-2015.	1.2	26
60	Assessment of Genetic Markers for Tracking the Sources of Human Wastewater Associated Escherichia coli in Environmental Waters. Environmental Science & Technology, 2015, 49, 9341-9346.	4.6	25
61	Aquifer residence times for recycled water estimated using chemical tracers and the propagation of temperature signals at a managed aquifer recharge site in Australia. Hydrogeology Journal, 2014, 22, 1383-1401.	0.9	24
62	Rapid concentration and sensitive detection of hookworm ova from wastewater matrices using a real-time PCR method. Experimental Parasitology, 2015, 159, 5-12.	0.5	24
63	Quantitative detection of viable helminth ova from raw wastewater, human feces, and environmental soil samples using novel PMA-qPCR methods. Environmental Science and Pollution Research, 2016, 23, 18639-18648.	2.7	24
64	Evaluating two infiltration gallery designs for managed aquifer recharge using secondary treated wastewater. Journal of Environmental Management, 2013, 117, 115-120.	3.8	23
65	Sensitive detection of human adenovirus from small volume of primary wastewater samples by quantitative PCR. Journal of Virological Methods, 2013, 187, 395-400.	1.0	22
66	Prevalence of Enterococcus Species and Their Virulence Genes in Fresh Water Prior to and after Storm Events. Environmental Science & Technology, 2014, 48, 2979-2988.	4.6	22
67	Comparison of concentration methods for rapid detection of hookworm ova in wastewater matrices using quantitative PCR. Experimental Parasitology, 2015, 159, 160-167.	0.5	22
68	Evidence of Avian and Possum Fecal Contamination in Rainwater Tanks as Determined by Microbial Source Tracking Approaches. Applied and Environmental Microbiology, 2016, 82, 4379-4386.	1.4	22
69	Speciation and Frequency of Virulence Genes of Enterococcus spp. Isolated from Rainwater Tank Samples in Southeast Queensland, Australia. Environmental Science & Technology, 2012, 46, 6843-6850.	4.6	21
70	Attachment and Detachment Behavior of Human Adenovirus and Surrogates in Fine Granular Limestone Aquifer Material. Journal of Environmental Quality, 2015, 44, 1392-1401.	1.0	21
71	Comparative decay of culturable faecal indicator bacteria, microbial source tracking marker genes, and enteric pathogens in laboratory microcosms that mimic a sub-tropical environment. Science of the Total Environment, 2021, 751, 141475.	3.9	21
72	Biogeography and phylogeny of Chondrilla species (Demospongiae) in Australia. Marine Ecology - Progress Series, 2004, 270, 117-127.	0.9	20

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73	Relevance ofCryptosporidium parvum hsp70mRNA Amplification as a Tool to Discriminate Between Viable and Dead Oocysts. Journal of Parasitology, 2001, 87, 226-229.	0.3	19
74	Fecal indicators and bacterial pathogens in bottled water from Dhaka, Bangladesh. Brazilian Journal of Microbiology, 2013, 44, 97-103.	0.8	19
75	Decay of enteric microorganisms in biosolids-amended soil under wheat (Triticum aestivum) cultivation. Water Research, 2014, 59, 185-197.	5.3	19
76	Optimization of sampling strategy to determine pathogen removal efficacy of activated sludge treatment plant. Environmental Science and Pollution Research, 2017, 24, 19001-19010.	2.7	19
77	Microbiological risks of recycling urban stormwater via aquifers for various uses in Adelaide, Australia. Environmental Earth Sciences, 2015, 73, 7733-7737.	1.3	18
78	Prevalence of antibiotic resistance and virulence genes in the biofilms from an aquifer recharged with stormwater. Water Research, 2020, 185, 116269.	5.3	18
79	Hydrogen sulphide production tests and the detection of groundwater faecal contamination by septic seepage. Water Science and Technology, 2005, 51, 291-300.	1.2	17
80	Lessons from 10 Years of Experience with Australiaâ€™s Risk-Based Guidelines for Managed Aquifer Recharge. Water (Switzerland), 2020, 12, 537.	1.2	17
81	Comparative morphology of five species of symbiotic and non-symbiotic coccoid cyanobacteria. European Journal of Phycology, 2006, 41, 179-188.	0.9	16
82	Degradation of 2-nitrodiphenylamine, a component of Otto Fuel II, byClostridiumspp.. Anaerobe, 1998, 4, 95-102.	1.0	15
83	Inactivation of faecal indicator bacteria in a roof-captured rainwater system under ambient meteorological conditions. Journal of Applied Microbiology, 2014, 116, 199-207.	1.4	15
84	Decay rates of Escherichia coli, Enterococcus spp., F-specific bacteriophage MS2, somatic coliphage and human adenovirus in facultative pond sludge. Water Research, 2019, 154, 62-71.	5.3	14
85	Distribution and abundance of Gram-positive bacteria in the environment: development of a group-specific probe. Journal of Microbiological Methods, 2001, 44, 193-203.	0.7	13
86	Biotin- and Glycoprotein-Coated Microspheres as Surrogates for Studying Filtration Removal of Cryptosporidium parvum in a Granular Limestone Aquifer Medium. Applied and Environmental Microbiology, 2015, 81, 4277-4283.	1.4	13
87	Microbial degradation of munition compounds in production wastewater. Water Research, 1999, 33, 3040-3045.	5.3	11
88	Comparative prevalence of Escherichia coli carrying virulence genes and class 1 and 2 integrons in sub-tropical and cool temperate freshwater. Environmental Science and Pollution Research, 2017, 24, 18263-18272.	2.7	11
89	Incorporating parameter uncertainty into Quantitative Microbial Risk Assessment (QMRA). Journal of Water and Health, 2011, 9, 10-26.	1.1	10
90	Assessment of treatment options of recycling urban stormwater recycling via aquifers to produce drinking water quality. Urban Water Journal, 2016, 13, 657-662.	1.0	9

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91	Spatial and temporal changes in sulphate-reducing groundwater bacterial community structure in response to Managed Aquifer Recharge. Water Science and Technology, 2008, 57, 789-795.	1.2	8
92	Comparison of culture-based, vital stain and PMA-qPCR methods for the quantitative detection of viable hookworm ova. Water Science and Technology, 2017, 75, 2615-2621.	1.2	8
93	Species of the sponge genus Chondrilla (Demospongiae: Chondrosida: Chondrillidae) in Australia. Records of the Western Australian Museum, 2008, 24, 469.	0.8	8
94	Microbial risk reduction of withholding periods during public open space irrigation with recycled water. Urban Water Journal, 2015, 12, 581-587.	1.0	7
95	The effect of Aeromonas strains on the growth of Legionella. Journal of Applied Bacteriology, 1994, 77, 169-174.	1.1	6
96	Decay of Salmonella enterica ,Escherichia coli and bacteriophage MS2 on the phyllosphere and stored grains of wheat (Triticum aestivum). Letters in Applied Microbiology, 2014, 58, 16-24.	1.0	6
97	An approach to reduce false viability assessment of hookworm eggs with vital stains. Food and Waterborne Parasitology, 2016, 3, 9-12.	1.1	6
98	Quantification of hookworm ova from wastewater matrices using quantitative PCR. Journal of Environmental Sciences, 2017, 57, 231-237.	3.2	6
99	Virological Characterization of Roof-Harvested Rainwater of Densely Urbanized Low-Income Region. Food and Environmental Virology, 2021, 13, 412-420.	1.5	6
100	Biosolids: Human Health Impacts. , 2011, , 394-402.		5
101	Evaluation of Glass Wool Filters and Hollow-Fiber Ultrafiltration Concentration Methods for qPCR Detection of Human Adenoviruses and Polyomaviruses in River Water. Water, Air, and Soil Pollution, 2016, 227, 327.	1.1	5
102	Determination of attenuation rates of recycled water disinfection byâ€products in a natural reservoir system using a laboratoryâ€based approach. Water and Environment Journal, 2014, 28, 358-364.	1.0	4
103	Human health risks of untreated groundwater third pipe supplies for non-potable domestic applications. Urban Water Journal, 2014, 11, 461-466.	1.0	4
104	Urban stormwater quality monitoring: From sampling to water quality analysis. , 2011, , .		3
105	Seasonal Abundance of Fecal Indicators and Opportunistic Pathogens in Roof-Harvested Rainwater Tanks. Open Health Data, 2018, 5, .	3.7	3
106	Role of Environmental Variables in the Transport of Microbes in Stormwater. Water (Switzerland), 2021, 13, 1146.	1.2	2
107	Practicalities of using recycled water.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , 1-8.	0.6	2
108	Application of physico-chemical parameters and particle-bound biomarkers to indicate microbial contamination of aquifers. Water Science and Technology: Water Supply, 2002, 2, 419-426.	1.0	1

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109	The survival potential of enteric microbial pathogens in a reclaimed water ASR project. , 2020, , 139-142.		1
110	Household Food Insecurity in Regions of the Vietnamese Mekong Delta: Prevalence and Risk Factors. Journal of Hunger and Environmental Nutrition, 2023, 18, 503-523.	1.1	1
111	Corrigendum to Ã¢Â€ÂœSensitive genotyping ofCryptosporidum parvumby PCR-RFLP analysis of the 70-kilodalton heat shock protein (HSP70) geneÃ¢Â€Â• FEMS Microbiology Letters, 2001, 205, 157-157.	0.7	0
112	Biosolids: Human Health Impacts. , 2011, , 397-404.		0