

# Simon Toze

## List of Publications by Year in descending order

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112  
papers

5,727  
citations

66343

42  
h-index

82547

72  
g-index

112  
all docs

112  
docs citations

112  
times ranked

6265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reuse of effluent water—benefits and risks. <i>Agricultural Water Management</i> , 2006, 80, 147-159.	5.6	489
2	Evolutionary relationships among ammonia- and nitrite-oxidizing bacteria. <i>Journal of Bacteriology</i> , 1994, 176, 6623-6630.	2.2	401
3	Human pathogens and their indicators in biosolids: A literature review. <i>Environment International</i> , 2009, 35, 187-201.	10.0	203
4	PCR and the detection of microbial pathogens in water and wastewater. <i>Water Research</i> , 1999, 33, 3545-3556.	11.3	193
5	Prevalence of Clinically Relevant Antibiotic Resistance Genes in Surface Water Samples Collected from Germany and Australia. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9716-9726.	10.0	178
6	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. <i>Science of the Total Environment</i> , 2022, 805, 149877.	8.0	153
7	Sewage pollution in urban stormwater runoff as evident from the widespread presence of multiple microbial and chemical source tracking markers. <i>Science of the Total Environment</i> , 2013, 463-464, 488-496.	8.0	152
8	Microbiological Quality of Roof-Harvested Rainwater and Health Risks: A Review. <i>Journal of Environmental Quality</i> , 2011, 40, 13-21.	2.0	139
9	Salmonella in surface and drinking water: Occurrence and water-mediated transmission. <i>Food Research International</i> , 2012, 45, 587-602.	6.2	138
10	Comparative removal of antibiotic resistance genes during chlorination, ozonation, and UV treatment. <i>International Journal of Hygiene and Environmental Health</i> , 2019, 222, 541-548.	4.3	128
11	Prevalence of human pathogens and indicators in stormwater runoff in Brisbane, Australia. <i>Water Research</i> , 2012, 46, 6652-6660.	11.3	125
12	Water quality assessment using the AREc32 reporter gene assay indicative of the oxidative stress response pathway. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2877.	2.1	111
13	Comparison of Concentration Methods for Quantitative Detection of Sewage-Associated Viral Markers in Environmental Waters. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2042-2049.	3.1	111
14	Managed aquifer recharge of treated wastewater: Water quality changes resulting from infiltration through the vadose zone. <i>Water Research</i> , 2011, 45, 5764-5772.	11.3	95
15	Bioanalytical tools for the evaluation of organic micropollutants during sewage treatment, water recycling and drinking water generation. <i>Water Research</i> , 2011, 45, 4238-4247.	11.3	94
16	Influence of groundwater characteristics on the survival of enteric viruses. <i>Journal of Applied Microbiology</i> , 2003, 95, 536-544.	3.1	92
17	The Biogeography and Phylogeny of Unicellular Cyanobacterial Symbionts in Sponges from Australia and the Mediterranean. <i>Microbial Ecology</i> , 2004, 48, 167-177.	2.8	92
18	Water reuse and health risks — real vs. perceived. <i>Desalination</i> , 2006, 187, 41-51.	8.2	86

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19	Managed aquifer recharge: rediscovering nature as a leading edge technology. <i>Water Science and Technology</i> , 2010, 62, 2338-2345.	2.5	86
20	A review on microbial contaminants in stormwater runoff and outfalls: Potential health risks and mitigation strategies. <i>Science of the Total Environment</i> , 2019, 692, 1304-1321.	8.0	85
21	Role of aquifer storage in water reuse. <i>Desalination</i> , 2006, 188, 123-134.	8.2	82
22	Use of static Quantitative Microbial Risk Assessment to determine pathogen risks in an unconfined carbonate aquifer used for Managed Aquifer Recharge. <i>Water Research</i> , 2010, 44, 1038-1049.	11.3	82
23	Decay of endocrine-disrupting chemicals in aerobic and anoxic groundwater. <i>Water Research</i> , 2008, 42, 1133-1141.	11.3	80
24	Opportunistic pathogens in roof-captured rainwater samples, determined using quantitative PCR. <i>Water Research</i> , 2014, 53, 361-369.	11.3	77
25	Persistence of biofilm-associated <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> in groundwater and treated effluent in a laboratory model system. <i>Microbiology (United Kingdom)</i> , 2003, 149, 47-55.	1.8	73
26	Fecal Indicators and Zoonotic Pathogens in Household Drinking Water Taps Fed from Rainwater Tanks in Southeast Queensland, Australia. <i>Applied and Environmental Microbiology</i> , 2012, 78, 219-226.	3.1	72
27	Occurrence of Virulence Genes Associated with Diarrheagenic Pathotypes in <i>Escherichia coli</i> Isolates from Surface Water. <i>Applied and Environmental Microbiology</i> , 2013, 79, 328-335.	3.1	68
28	Toolbox Approaches Using Molecular Markers and 16S rRNA Gene Amplicon Data Sets for Identification of Fecal Pollution in Surface Water. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7067-7077.	3.1	68
29	<i>Escherichia coli</i> survival in groundwater and effluent measured using a combination of propidium iodide and the green fluorescent protein. <i>Journal of Applied Microbiology</i> , 2002, 93, 69-76.	3.1	61
30	Antibiotic resistance and virulence genes in coliform water isolates. <i>International Journal of Hygiene and Environmental Health</i> , 2016, 219, 823-831.	4.3	58
31	Behaviour and fate of nine recycled water trace organics during managed aquifer recharge in an aerobic aquifer. <i>Journal of Contaminant Hydrology</i> , 2011, 122, 53-62.	3.3	55
32	Relative inactivation of faecal indicator bacteria and sewage markers in freshwater and seawater microcosms. <i>Letters in Applied Microbiology</i> , 2014, 59, 348-354.	2.2	54
33	Risk Assessment of Aquifer Storage Transfer and Recovery with Urban Stormwater for Producing Water of a Potable Quality. <i>Journal of Environmental Quality</i> , 2010, 39, 2029-2039.	2.0	53
34	Valuing the subsurface pathogen treatment barrier in water recycling via aquifers for drinking supplies. <i>Water Research</i> , 2010, 44, 1841-1852.	11.3	51
35	Human health risks for <i>Legionella</i> and <i>Mycobacterium avium</i> complex (MAC) from potable and non-potable uses of roof-harvested rainwater. <i>Water Research</i> , 2017, 119, 288-303.	11.3	51
36	Comparative enteric viruses and coliphage removal during wastewater treatment processes in a sub-tropical environment. <i>Science of the Total Environment</i> , 2018, 616-617, 669-677.	8.0	50

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37	Inhibition of growth of <i>Legionella</i> species by heterotrophic plate count bacteria isolated from chlorinated drinking water. <i>Current Microbiology</i> , 1990, 21, 139-143.	2.2	48
38	Inter-generational transmission of microbial symbionts in the marine sponge <i>Chondrilla australiensis</i> (Demospongiae). <i>Marine and Freshwater Research</i> , 2005, 56, 125.	1.3	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. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2682-2691.	3.1	46
40	Amplicon-based taxonomic characterization of bacteria in urban and peri-urban roof-harvested rainwater stored in tanks. <i>Science of the Total Environment</i> , 2017, 576, 326-334.	8.0	46
41	Pathogen Decay during Managed Aquifer Recharge at Four Sites with Different Geochemical Characteristics and Recharge Water Sources. <i>Journal of Environmental Quality</i> , 2015, 44, 1402-1412.	2.0	45
42	Distributions of Fecal Markers in Wastewater from Different Climatic Zones for Human Fecal Pollution Tracking in Australian Surface Waters. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1316-1323.	3.1	45
43	Sexual reproduction in <i>Chondrilla australiensis</i> (Porifera:Demospongiae). <i>Marine and Freshwater Research</i> , 2004, 55, 123.	1.3	44
44	A critical evaluation of combined engineered and aquifer treatment systems in water recycling. <i>Water Science and Technology</i> , 2008, 57, 753-762.	2.5	44
45	Quantitative PCR measurements of <i>Escherichia coli</i> including Shiga Toxin-Producing <i>E. coli</i> (STEC) in Animal Feces and Environmental Waters. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3084-3090.	10.0	42
46	Public health implications of <i>Acanthamoeba</i> and multiple potential opportunistic pathogens in roof-harvested rainwater tanks. <i>Environmental Research</i> , 2016, 150, 320-327.	7.5	41
47	Consistency in the host specificity and host sensitivity of the <i>Bacteroides</i> HF183 marker for sewage pollution tracking. <i>Letters in Applied Microbiology</i> , 2012, 55, 283-289.	2.2	40
48	Occurrence of Intestinal and Extraintestinal Virulence Genes in <i>Escherichia coli</i> Isolates from Rainwater Tanks in Southeast Queensland, Australia. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7394-7400.	3.1	39
49	Urban stormwater harvesting and reuse: a probe into the chemical, toxicology and microbiological contaminants in water quality. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 6645-6652.	2.7	39
50	Pathogen inactivation during passage of stormwater through a constructed reedbed and aquifer transfer, storage and recovery. <i>Water Science and Technology</i> , 2010, 62, 1190-1197.	2.5	36
51	Sensitive genotyping of <i>Cryptosporidium parvum</i> by PCR-RFLP analysis of the 70-kilodalton heat shock protein (HSP70) gene. <i>FEMS Microbiology Letters</i> , 2001, 200, 37-41.	1.8	35
52	Evaluation of the <i>nifH</i> Gene Marker of <i>Methanobrevibacter smithii</i> for the Detection of Sewage Pollution in Environmental Waters in Southeast Queensland, Australia. <i>Environmental Science &amp; Technology</i> , 2012, 46, 543-550.	10.0	34
53	Amplicon-based profiling of bacteria in raw and secondary treated wastewater from treatment plants across Australia. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1253-1266.	3.6	34
54	Assessment of pathogen survival potential during managed aquifer recharge with diffusion chambers. <i>Journal of Applied Microbiology</i> , 2012, 113, 693-700.	3.1	32

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55	An Attempt to Identify the Likely Sources of <i>Escherichia coli</i> Harboring Toxin Genes in Rainwater Tanks. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5193-5197.	10.0	32
56	Seasonal Assessment of Opportunistic Premise Plumbing Pathogens in Roof-Harvested Rainwater Tanks. <i>Environmental Science &amp; Technology</i> , 2017, 51, 1742-1753.	10.0	31
57	Utility of <i>Helicobacter</i> spp. associated GFD markers for detecting avian fecal pollution in natural waters of two continents. <i>Water Research</i> , 2016, 88, 613-622.	11.3	30
58	<i>Escherichia coli</i> and <i>Enterococcus</i> spp. in Rainwater Tank Samples: Comparison of Culture-Based Methods and 23S rRNA Gene Quantitative PCR Assays. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11370-11376.	10.0	29
59	Characterising aquifer treatment for pathogens in managed aquifer recharge. <i>Water Science and Technology</i> , 2010, 62, 2009-2015.	2.5	26
60	Assessment of Genetic Markers for Tracking the Sources of Human Wastewater Associated <i>Escherichia coli</i> in Environmental Waters. <i>Environmental Science &amp; Technology</i> , 2015, 49, 9341-9346.	10.0	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. <i>Hydrogeology Journal</i> , 2014, 22, 1383-1401.	2.1	24
62	Rapid concentration and sensitive detection of hookworm ova from wastewater matrices using a real-time PCR method. <i>Experimental Parasitology</i> , 2015, 159, 5-12.	1.2	24
63	Quantitative detection of viable helminth ova from raw wastewater, human feces, and environmental soil samples using novel PMA-qPCR methods. <i>Environmental Science and Pollution Research</i> , 2016, 23, 18639-18648.	5.3	24
64	Evaluating two infiltration gallery designs for managed aquifer recharge using secondary treated wastewater. <i>Journal of Environmental Management</i> , 2013, 117, 115-120.	7.8	23
65	Sensitive detection of human adenovirus from small volume of primary wastewater samples by quantitative PCR. <i>Journal of Virological Methods</i> , 2013, 187, 395-400.	2.1	22
66	Prevalence of <i>Enterococcus</i> Species and Their Virulence Genes in Fresh Water Prior to and after Storm Events. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2979-2988.	10.0	22
67	Comparison of concentration methods for rapid detection of hookworm ova in wastewater matrices using quantitative PCR. <i>Experimental Parasitology</i> , 2015, 159, 160-167.	1.2	22
68	Evidence of Avian and Possum Fecal Contamination in Rainwater Tanks as Determined by Microbial Source Tracking Approaches. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4379-4386.	3.1	22
69	Speciation and Frequency of Virulence Genes of <i>Enterococcus</i> spp. Isolated from Rainwater Tank Samples in Southeast Queensland, Australia. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6843-6850.	10.0	21
70	Attachment and Detachment Behavior of Human Adenovirus and Surrogates in Fine Granular Limestone Aquifer Material. <i>Journal of Environmental Quality</i> , 2015, 44, 1392-1401.	2.0	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. <i>Science of the Total Environment</i> , 2021, 751, 141475.	8.0	21
72	Biogeography and phylogeny of <i>Chondrilla</i> species (Demospongiae) in Australia. <i>Marine Ecology - Progress Series</i> , 2004, 270, 117-127.	1.9	20

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73	Relevance of <i>Cryptosporidium parvum</i> hsp70 mRNA Amplification as a Tool to Discriminate Between Viable and Dead Oocysts. <i>Journal of Parasitology</i> , 2001, 87, 226-229.	0.7	19
74	Fecal indicators and bacterial pathogens in bottled water from Dhaka, Bangladesh. <i>Brazilian Journal of Microbiology</i> , 2013, 44, 97-103.	2.0	19
75	Decay of enteric microorganisms in biosolids-amended soil under wheat ( <i>Triticum aestivum</i> ) cultivation. <i>Water Research</i> , 2014, 59, 185-197.	11.3	19
76	Optimization of sampling strategy to determine pathogen removal efficacy of activated sludge treatment plant. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19001-19010.	5.3	19
77	Microbiological risks of recycling urban stormwater via aquifers for various uses in Adelaide, Australia. <i>Environmental Earth Sciences</i> , 2015, 73, 7733-7737.	2.7	18
78	Prevalence of antibiotic resistance and virulence genes in the biofilms from an aquifer recharged with stormwater. <i>Water Research</i> , 2020, 185, 116269.	11.3	18
79	Hydrogen sulphide production tests and the detection of groundwater faecal contamination by septic seepage. <i>Water Science and Technology</i> , 2005, 51, 291-300.	2.5	17
80	Lessons from 10 Years of Experience with Australia's Risk-Based Guidelines for Managed Aquifer Recharge. <i>Water (Switzerland)</i> , 2020, 12, 537.	2.7	17
81	Comparative morphology of five species of symbiotic and non-symbiotic coccoid cyanobacteria. <i>European Journal of Phycology</i> , 2006, 41, 179-188.	2.0	16
82	Degradation of 2-nitrodiphenylamine, a component of Otto Fuel II, by <i>Clostridium</i> spp.. <i>Anaerobe</i> , 1998, 4, 95-102.	2.1	15
83	Inactivation of faecal indicator bacteria in a roof-captured rainwater system under ambient meteorological conditions. <i>Journal of Applied Microbiology</i> , 2014, 116, 199-207.	3.1	15
84	Decay rates of <i>Escherichia coli</i> , <i>Enterococcus</i> spp., F-specific bacteriophage MS2, somatic coliphage and human adenovirus in facultative pond sludge. <i>Water Research</i> , 2019, 154, 62-71.	11.3	14
85	Distribution and abundance of Gram-positive bacteria in the environment: development of a group-specific probe. <i>Journal of Microbiological Methods</i> , 2001, 44, 193-203.	1.6	13
86	Biotin- and Glycoprotein-Coated Microspheres as Surrogates for Studying Filtration Removal of <i>Cryptosporidium parvum</i> in a Granular Limestone Aquifer Medium. <i>Applied and Environmental Microbiology</i> , 2015, 81, 4277-4283.	3.1	13
87	Microbial degradation of munition compounds in production wastewater. <i>Water Research</i> , 1999, 33, 3040-3045.	11.3	11
88	Comparative prevalence of <i>Escherichia coli</i> carrying virulence genes and class 1 and 2 integrons in sub-tropical and cool temperate freshwater. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18263-18272.	5.3	11
89	Incorporating parameter uncertainty into Quantitative Microbial Risk Assessment (QMRA). <i>Journal of Water and Health</i> , 2011, 9, 10-26.	2.6	10
90	Assessment of treatment options of recycling urban stormwater recycling via aquifers to produce drinking water quality. <i>Urban Water Journal</i> , 2016, 13, 657-662.	2.1	9

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91	Spatial and temporal changes in sulphate-reducing groundwater bacterial community structure in response to Managed Aquifer Recharge. <i>Water Science and Technology</i> , 2008, 57, 789-795.	2.5	8
92	Comparison of culture-based, vital stain and PMA-qPCR methods for the quantitative detection of viable hookworm ova. <i>Water Science and Technology</i> , 2017, 75, 2615-2621.	2.5	8
93	Species of the sponge genus <i>Chondrilla</i> (Demospongiae: Chondrosida: Chondrillidae) in Australia. <i>Records of the Western Australian Museum</i> , 2008, 24, 469.	0.8	8
94	Microbial risk reduction of withholding periods during public open space irrigation with recycled water. <i>Urban Water Journal</i> , 2015, 12, 581-587.	2.1	7
95	The effect of <i>Aeromonas</i> strains on the growth of <i>Legionella</i> . <i>Journal of Applied Bacteriology</i> , 1994, 77, 169-174.	1.1	6
96	Decay of <i>Salmonella enterica</i> , <i>Escherichia coli</i> and bacteriophage MS2 on the phyllosphere and stored grains of wheat ( <i>Triticum aestivum</i> ). <i>Letters in Applied Microbiology</i> , 2014, 58, 16-24.	2.2	6
97	An approach to reduce false viability assessment of hookworm eggs with vital stains. <i>Food and Waterborne Parasitology</i> , 2016, 3, 9-12.	2.7	6
98	Quantification of hookworm ova from wastewater matrices using quantitative PCR. <i>Journal of Environmental Sciences</i> , 2017, 57, 231-237.	6.1	6
99	Virological Characterization of Roof-Harvested Rainwater of Densely Urbanized Low-Income Region. <i>Food and Environmental Virology</i> , 2021, 13, 412-420.	3.4	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. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 327.	2.4	5
102	Determination of attenuation rates of recycled water disinfection by-products in a natural reservoir system using a laboratory-based approach. <i>Water and Environment Journal</i> , 2014, 28, 358-364.	2.2	4
103	Human health risks of untreated groundwater third pipe supplies for non-potable domestic applications. <i>Urban Water Journal</i> , 2014, 11, 461-466.	2.1	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. <i>Open Health Data</i> , 2018, 5, .	3.7	3
106	Role of Environmental Variables in the Transport of Microbes in Stormwater. <i>Water (Switzerland)</i> , 2021, 13, 1146.	2.7	2
107	Practicalities of using recycled water.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , 1-8.	1.0	2
108	Application of physico-chemical parameters and particle-bound biomarkers to indicate microbial contamination of aquifers. <i>Water Science and Technology: Water Supply</i> , 2002, 2, 419-426.	2.1	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.	1.9	1
111	Corrigendum to "Sensitive genotyping of <i>Cryptosporidium parvum</i> by PCR-RFLP analysis of the 70-kilodalton heat shock protein (HSP70) gene" FEMS Microbiology Letters, 2001, 205, 157-157.	1.8	0
112	Biosolids: Human Health Impacts. , 2011, , 397-404.		0