Paul T Monis

List of Publications by Year
in descending order

121 papers	7,584 citations	43973 48 h-index	54797 84 g-index
121 all docs	121 docs citations	121 times ranked	6274 citing authors

#	Article	IF	Citations
1	Discrimination of all genotypes of Giardia duodenalis at the glutamate dehydrogenase locus using PCR-RFLP. Infection, Genetics and Evolution, 2004, 4, 125-130.	1.0	454
2	Epidemiological and molecular evidence supports the zoonotic transmission ofGiardiaamong humans and dogs living in the same community. Parasitology, 2004, 128, 253-262.	0.7	261
3	Molecular systematics of the parasitic protozoan Giardia intestinalis. Molecular Biology and Evolution, 1999, 16, 1135-1144.	3.5	253
4	Comparison of SYTO9 and SYBR Green I for real-time polymerase chain reaction and investigation of the effect of dye concentration on amplification and DNA melting curve analysis. Analytical Biochemistry, 2005, 340, 24-34.	1.1	245
5	Variation in Giardia: Implications for Taxonomy and Epidemiology. Advances in Parasitology, 2004, 58, 69-137.	1.4	240
6	Genetic diversity within the morphological species Giardia intestinalis and its relationship to host origin. Infection, Genetics and Evolution, 2003, 3, 29-38.	1.0	230
7	Variation in Giardia: towards a taxonomic revision of the genus. Trends in Parasitology, 2009, 25, 93-100.	1.5	230
8	Demonstration of preferential binding of SYBR Green I to specific DNA fragments in real-time multiplex PCR. Nucleic Acids Research, 2003, 31, 136e-136.	6.5	207
9	Molecular and phylogenetic characterisation of Cryptosporidium from birds. International Journal for Parasitology, 2001, 31, 289-296.	1.3	174
10	Enumeration of water-borne bacteria using viability assays and flow cytometry: a comparison to culture-based techniques. Journal of Microbiological Methods, 2003, 55, 585-597.	0.7	173
11	Cryptosporidium and Giardia-zoonoses: fact or fiction?. Infection, Genetics and Evolution, 2003, 3, 233-244.	1.0	165
12	Biochemistry and genetics of taste- and odor-producing cyanobacteria. Harmful Algae, 2016, 54, 112-127.	2.2	157
13	Critical processes affecting Cryptosporidium oocyst survival in the environment. Parasitology, 2007, 134, 309.	0.7	154
14	Comparison of next-generation droplet digital PCR (ddPCR) with quantitative PCR (qPCR) for enumeration of Cryptosporidium oocysts in faecal samples. International Journal for Parasitology, 2014, 44, 1105-1113.	1.3	152
15	CRYPTOSPORIDIUM SUIS N. SP. (APICOMPLEXA: CRYPTOSPORIDIIDAE) IN PIGS (SUS SCROFA). Journal of Parasitology, 2004, 90, 769-773.	0.3	131
16	Profiling bacterial survival through a water treatment process and subsequent distribution system. Journal of Applied Microbiology, 2005, 99, 175-186.	1.4	124
17	A comparative study of carboxyfluorescein diacetate and carboxyfluorescein diacetate succinimidyl ester as indicators of bacterial activity. Journal of Microbiological Methods, 2003, 52, 379-388.	0.7	119
18	Nucleic acid amplification-based techniques for pathogen detection and identification. Infection, Genetics and Evolution, 2006, 6, 2-12.	1.0	119

#	Article	IF	Citations
19	Genetic Analysis of Giardia from Hoofed Farm Animals Reveals Artiodactylâ€Specific and Potentially Zoonotic Genotypes. Journal of Eukaryotic Microbiology, 1997, 44, 626-635.	0.8	112
20	Novel lineages of Giardia intestinalis identified by genetic analysis of organisms isolated from dogs in Australia. Parasitology, 1998, 116, 7-19.	0.7	111
21	It's official â€“ Cryptosporidium is a gregarine: What are the implications for the water industry?. Water Research, 2016, 105, 305-313.	5.3	110
22	Cryptosporidium â€” Biotechnological advances in the detection, diagnosis and analysis of genetic variation. Biotechnology Advances, 2008, 26, 304-317.	6.0	109
23	Pathogen and Particle Associations in Wastewater. Advances in Applied Microbiology, 2016, 97, 63-119.	1.3	109
24	Metabolic flux network and analysis of fermentative hydrogen production. Biotechnology Advances, 2011, 29, 375-387.	6.0	108
25	Isolation and Characterization of the Gene Associated with Geosmin Production in Cyanobacteria. Environmental Science & Technology, 2008, 42, 8027-8032.	4.6	106
26	Complete development of Cryptosporidium parvum in host cell-free culture. International Journal for Parasitology, 2004, 34, 769-777.	1.3	103
27	Biosynthesis of 2-Methylisoborneol in Cyanobacteria. Environmental Science & Technology, 2011, 45, 992-998.	4.6	96
28	Culture-Independent Techniques for Rapid Detection of Bacteria Associated with Loss of Chloramine Residual in a Drinking Water System. Applied and Environmental Microbiology, 2005, 71, 6479-6488.	1.4	95
29	Giardiaâ€”From Genome to Proteome. Advances in Parasitology, 2012, 78, 57-95.	1.4	93
30	Environmental Temperature Controls Cryptosporidium Oocyst Metabolic Rate and Associated Retention of Infectivity. Applied and Environmental Microbiology, 2005, 71, 3848-3857.	1.4	90
31	Development and field testing of a real-time PCR assay for cylindrospermopsin-producing cyanobacteria. Journal of Applied Microbiology, 2008, 104, 1503-1515.	1.4	90
32	Rapid, Sensitive, and Discriminating Identification of Naegleria spp. by Real-Time PCR and Melting-Curve Analysis. Applied and Environmental Microbiology, 2006, 72, 5857-5863.	1.4	87
33	Phylogenetic Relationships among Isolates of Cryptosporidium: Evidence for Several New Species. Journal of Parasitology, 1999, 85, 1126.	0.3	84
34	Benthic cyanobacteria: A source of cylindrospermopsin and microcystin in Australian drinking water reservoirs. Water Research, 2017, 124, 454-464.	5.3	83
35	Solar UV reduces Cryptosporidium parvum oocyst infectivity in environmental waters. Journal of Applied Microbiology, 2008, 104, 1311-1323.	1.4	77
36	Metabolic flux analysis of hydrogen production network by Clostridium butyricum W5: Effect of pH and glucose concentrations. International Journal of Hydrogen Energy, 2010, 35, 6681-6690.	3.8	77

#	Article	IF	Citations
37	Cell Culture-Taqman PCR Assay for Evaluation of Cryptosporidium parvum Disinfection. Applied and Environmental Microbiology, 2003, 69, 2505-2511.	1.4	67
38	Biodegradation of multiple cyanobacterial metabolites in drinking water supplies. Chemosphere, 2012, 87, 1149-1154.	4.2	64
39	Molecular and phylogenetic analysis of Cryptosporidium muris from various hosts. Parasitology, 2000, 120, 457-464.	0.7	63
40	Using Amplicon Sequencing To Characterize and Monitor Bacterial Diversity in Drinking Water Distribution Systems. Applied and Environmental Microbiology, 2015, 81, 6463-6473.	1.4	63
41	A molecular phylogeny of nuclear and mitochondrial sequences in Hymenolepis nana (Cestoda) supports the existence of a cryptic species. Parasitology, 2002, 125, 567-575.	0.7	60
42	Emerging technologies for the detection and genetic characterization of protozoan parasites. Trends in Parasitology, 2005, 21, 340-346.	1.5	57
43	Isolates of â€˜Candidatus Nostocoida limicolaâ€™ Blackall et al. 2000 should be described as three novel species of the genus Tetrasphaera, as Tetrasphaera jenkinsii sp. nov., Tetrasphaera vanveenii sp. nov. and Tetrasphaera veronensis sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 2279-2290.	0.8	56
44	Genetic manipulation of butyrate formation pathways in Clostridium butyricum. Journal of Biotechnology, 2011, 155, 269-274.	1.9	56
45	Wastewater-based epidemiologyâ€”surveillance and early detection of waterborne pathogens with a focus on SARS-CoV-2, Cryptosporidium and Giardia. Parasitology Research, 2021, 120, 4167-4188.	0.6	55
46	Cooperative biodegradation of geosmin by a consortium comprising three gram-negative bacteria isolated from the biofilm of a sand filter column. Letters in Applied Microbiology, 2006, 43, 417-423.	1.0	54
47	Cryptosporidium species and subtypes in animals inhabiting drinking water catchments in three states across Australia. Water Research, 2018, 134, 327-340.	5.3	54
48	The isolation and microbial community analysis of hydrogen producing bacteria from activated sludge. Journal of Applied Microbiology, 2007, 103, 1415-1423.	1.4	52
49	Cryptosporidium spp. in Domestic Dogs: the â€œDogâ€•Genotype. Applied and Environmental Microbiology, 2000, 66, 2220-2223.	1.4	51
50	A genetic and metabolic approach to redirection of biochemical pathways of Clostridium butyricum for enhancing hydrogen production. Biotechnology and Bioengineering, 2013, 110, 338-342.	1.7	50
51	Zoonotic Cryptosporidium Species in Animals Inhabiting Sydney Water Catchments. PLoS ONE, 2016, 11, e0168169.	1.1	47
52	Use of DNA melting simulation software for in silico diagnostic assay design: targeting regions with complex melting curves and confirmation by real-time PCR using intercalating dyes. BMC Bioinformatics, 2007, 8, 107.	1.2	46
53	Multi-locus analysis of Giardia duodenalis intra-Assemblage B substitution patterns in cloned culture isolates suggests sub-Assemblage B analyses will require multi-locus genotyping with conserved and variable genes. International Journal for Parasitology, 2011, 41, 495-503.	1.3	46
54	Monitoring of geosmin producing Anabaena circinalis using quantitative PCR. Water Research, 2014, 49, 416-425.	5.3	46

#	Article	IF	Citations
55	Profiling the diversity of Cryptosporidium species and genotypes in wastewater treatment plants in Australia using next generation sequencing. Science of the Total Environment, 2018, 644, 635-648.	3.9	45
56	Biodegradation of geosmin by a novel Gram-negative bacterium; isolation, phylogenetic characterisation and degradation rate determination. Water Research, 2009, 43, 2927-2935.	5.3	44
57	Comparison of drinking water treatment process streams for optimal bacteriological water quality. Water Research, 2012, 46, 3934-3942.	5.3	44
58	Molecular epidemiology: A multidisciplinary approach to understanding parasitic zoonoses. International Journal for Parasitology, 2005, 35, 1295-1307.	1.3	43
59	Cyst morphology and sequence analysis of the small subunit rDNA and ef1Î± identifies a novel Giardia genotype in a quenda (Isoodon obesulus) from Western Australia. Infection, Genetics and Evolution, 2004, 4, 365-370.	1.0	42
60	Multiplication of the waterborne pathogen Cryptosporidium parvum in an aquatic biofilm system. Parasites and Vectors, 2013, 6, 270.	1.0	42
61	Molecular characterisation of Cryptosporidium and Giardia in cats (Felis catus) in Western Australia. Experimental Parasitology, 2015, 155, 13-18.	0.5	42
62	Development of a nested-PCR assay for the detection of cryptosporidium parvum in finished water. Water Research, 2001, 35, 1641-1648.	5.3	41
63	Molecular biology techniques in parasite ecology. International Journal for Parasitology, 2002, 32, 551-562.	1.3	40
64	Complete development and multiplication of Cryptosporidium hominis in cell-free culture. Veterinary Parasitology, 2010, 169, 29-36.	0.7	36
65	Novel toxic effects associated with a tropical Limnothrix/Geitlerinemaâ€‰like cyanobacterium. Environmental Toxicology, 2011, 26, 260-270.	2.1	35
66	Assessing the impact of water treatment on bacterial biofilms in drinking water distribution systems using high-throughput DNA sequencing. Chemosphere, 2014, 117, 185-192.	4.2	35
67	Investigating source water Cryptosporidium concentration, species and infectivity rates during rainfall-runoff in a multi-use catchment. Water Research, 2014, 67, 310-320.	5.3	34
68	Identification of polymorphic genes for use in assemblage B genotyping assays through comparative genomics of multiple assemblage B Giardia duodenalis isolates. Molecular and Biochemical Parasitology, 2015, 201, 1-4.	0.5	32
69	Molecular epidemiology: assumptions and limitations of commonly applied methods. International Journal for Parasitology, 1998, 28, 981-987.	1.3	31
70	Humans, dogs and parasitic zoonoses ? unravelling the relationships in a remote endemic community in northeast India using molecular tools. Parasitology Research, 2003, 90, S156-S157.	0.6	31
71	Biochemical kinetics of fermentative hydrogen production by Clostridium butyricum W5. International Journal of Hydrogen Energy, 2009, 34, 791-798.	3.8	31
72	Extracellular excystation and development of Cryptosporidium: tracing the fate of oocysts within Pseudomonas aquatic biofilm systems. BMC Microbiology, 2014, 14, 281.	1.3	31

#	Article	IF	Citations
73	Legionella Confirmation Using Real-Time PCR and SYTO9 Is an Alternative to Current Methodology. Applied and Environmental Microbiology, 2005, 71, 8944-8948.	1.4	28
74	Understanding human infectious Cryptosporidium risk in drinking water supply catchments. Water Research, 2018, 138, 282-292.	5.3	28
75	Polyphasic identification of cyanobacterial isolates from Australia. Water Research, 2014, 59, 248-261.	5.3	27
76	Development and Evaluation of Three Real-Time PCR Assays for Genotyping and Source Tracking Cryptosporidium spp. in Water. Applied and Environmental Microbiology, 2015, 81, 5845-5854.	1.4	27
77	Comparison of the levels of intra-specific genetic variation within Giardia muris and Giardia intestinalis. International Journal for Parasitology, 1998, 28, 1179-1185.	1.3	26
78	Cryptosporidium Attenuation across the Wastewater Treatment Train: Recycled Water Fit for Purpose. Applied and Environmental Microbiology, 2017, 83, .	1.4	25
79	Comparison of various staining methods for the detection of Cryptosporidium in cell-free culture. Experimental Parasitology, 2008, 120, 67-72.	0.5	24
80	Epidemiological evaluation of sewage surveillance as a tool to detect the presence of COVID-19 cases in a low case load setting. Science of the Total Environment, 2021, 786, 147469.	3.9	24
81	Cryptosporidiumcell culture infectivity assay design. Parasitology, 2011, 138, 671-681.	0.7	23
82	Selection of surrogate pathogens and process indicator organisms for pasteurisation of municipal wastewaterâ€”A survey of literature data on heat inactivation of pathogens. Chemical Engineering Research and Design, 2020, 133, 301-314.	2.7	22
83	Organoids and Bioengineered Intestinal Models: Potential Solutions to the Cryptosporidium Culturing Dilemma. Microorganisms, 2020, 8, 715.	1.6	22
84	EXPRESSION OF THE GEOSMIN SYNTHASE GENE IN THE CYANOBACTERIUM ANABAENA CIRCINALIS AWQC318¹. Journal of Phycology, 2011, 47, 1338-1343.	1.0	21
85	Invited review The importance of systematics in parasitological research. International Journal for Parasitology, 1999, 29, 381-388.	1.3	20
86	Dissection of the hierarchy and synergism of the bile derived signal on Cryptosporidium parvum excystation and infectivity. Parasitology, 2012, 139, 1533-1546.	0.7	18
87	Integrated Cryptosporidium Assay To Determine Oocyst Density, Infectivity, and Genotype for Risk Assessment of Source and Reuse Water. Applied and Environmental Microbiology, 2015, 81, 3471-3481.	1.4	18
88	Effect of water treatment processes on Cryptosporidium infectivity. Water Research, 2008, 42, 1805-1811.	5.3	17
89	<scp>DNA</scp> extraction from benthic Cyanobacteria: comparative assessment and optimization. Journal of Applied Microbiology, 2017, 122, 294-304.	1.4	17
90	Toolbox for the sampling and monitoring of benthic cyanobacteria. Water Research, 2020, 169, 115222.	5.3	17

#	Article	IF	Citations
91	Inactivation, removal, and regrowth potential of opportunistic pathogens and antimicrobial resistance genes in recycled water systems. Water Research, 2021, 201, 117324.	5.3	17
92	Is nitrification the only cause of microbiologically induced chloramine decay?. Water Research, 2016, 88, 904-911.	5.3	16
93	Virus removal by ultrafiltration: Understanding long-term performance change by application of Bayesian analysis. Water Research, 2017, 122, 269-279.	5.3	16
94	Do skin peptide profiles reflect speciation in the Australian treefrog Litoria caerulea (Anura :) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	0.6	13
95	Evaluation of chromogenic technologies for use in Australian potable water. Journal of Applied Microbiology, 2008, 105, 1138-1149.	1.4	12
96	Virus removal of new and aged UF membranes at full-scale in a wastewater reclamation plant. Environmental Science: Water Research and Technology, 2016, 2, 1014-1021.	1.2	12
97	Independent validation and regulatory agency approval for high rate algal ponds to treat wastewater from rural communities. Environmental Science: Water Research and Technology, 2018, 4, 195-205.	1.2	11
98	Risk-based management of drinking water safety in Australia: Implementation of health based targets to determine water treatment requirements and identification of pathogen surrogates for validation of conventional filtration. Food and Waterborne Parasitology, 2017, 8-9, 64-74.	1.1	10
99	Solar Radiation Induces Non-Nuclear Perturbations and a False Start to Regulated Exocytosis in Cryptosporidium parvum. PLoS ONE, 2010, 5, e11773.	1.1	10
100	Detection and significance of the potentially pathogenic amoeboflagellate Naegleria italica in Australia. Parasitology International, 2004, 53, 23-27.	0.6	9
101	Flow cytometric assessment of distinct physiological stages withinCryptosporidium parvumsporozoites post-excystation. Parasitology, 2009, 136, 953-966.	0.7	9
102	Novel Primer Sets for Next Generation Sequencing-Based Analyses of Water Quality. PLoS ONE, 2017, 12, e0170008.	1.1	8
103	Validation of activated sludge plant performance for virus and protozoan reduction. Journal of Water Reuse and Desalination, 2013, 3, 140-147.	1.2	6
104	Disposable microfluidic micromixers for effective capture of Cryptosporidium parvum oocysts from water samples. Journal of Biological Engineering, 2018, 12, 4.	2.0	6
105	Taxonomy of Giardia Species. , 2011, , 3-15.		6
106	Disaggregation of colonies of Microcystis (Cyanobacteria): efficiency of two techniques assessed using an image analysis system. Journal of Applied Phycology, 2004, 16, 117-125.	1.5	5
107	Wastewater monitoring for SARS-CoV-2. Microbiology Australia, 2021, 42, 18.	0.1	5
108	Evaluation of heterotrophic plate and chromogenic agar colony counting in water quality laboratories. MethodsX, 2015, 2, 415-422.	0.7	4

#	Article	IF	Citations
109	<scp>PCR</scp> Slippage Across the <scp>ML</scp>â€² Microsatellite of the <scp>C</scp>ryptosporidium <scp>MIC</scp>1 Locus Enables Development of a <scp>PCR</scp> Assay Capable of Distinguishing the Zoonotic <scp>C</scp>ryptosporidium parvum From Other Human Infectious <scp>C</scp>ryptosporidium Species. Zoonoses and Public Health, 2014, 61, 324-337.	0.9	3
110	Field based pilot-scale drinking water distribution system: Simulation of long hydraulic retention times and microbiological mediated monochloramine decay. MethodsX, 2018, 5, 684-696.	0.7	2
111	Removal of pathogens by functionalised self-assembled monolayers. Journal of Water Supply: Research and Technology - AQUA, 2008, 57, 93-100.	0.6	1
112	Evaluating membrane performance in recycled water treatment plants for assets replacement strategy. Water Science and Technology, 2017, 76, 2941-2948.	1.2	1
113	Effectiveness and Energy Requirements of Pasteurisation for the Treatment of Unfiltered Secondary Effluent from a Municipal Wastewater Treatment Plant. Water (Switzerland), 2020, 12, 2100.	1.2	1
114	Pathogens and indicators in wastewater matrices. Microbiology Australia, 2009, 30, 8.	0.1	1
115	Removal and Inactivation of Cryptosporidium from Water. , 2014, , 515-552.		1
116	Stormwater monitoring using on-line UV-Vis spectroscopy. Environmental Science and Pollution Research, 2022, 29, 19530-19539.	2.7	1
117	Cryptosporidium and the Environmentâ€"Overview and Summary. , 2003, , 387-392.		0
118	The Use of Cell Culture and Real-time PCR to Assess Disinfection of Cryptosporidium Parvum. , 2003, , 257-260.		0
119	Evaluation of Oocyst DNA Extraction Methods Using Real-time PCR. , 2003, , 177-180.		0
120	Thwart fatal infant gut parasite. Nature, 2014, 507, 431-431.	13.7	0
121	A Novel and Rapid Legionella Detection System for Water Analysis. , 0, , 453-455.		0