Ronald W Harvey

List of Publications by Year
in descending order

72 papers	5,283 citations	94433 37 h-index	85541 71 g-index
73 all docs	73 docs citations	73 times ranked	3563 citing authors

#	Article	IF	Citations
1	Use of colloid filtration theory in modeling movement of bacteria through a contaminated sandy aquifer. Environmental Science & Technology, 1991, 25, 178-185.	10.0	467
2	Transport of microspheres and indigenous bacteria through a sandy aquifer: results of natural- and forced-gradient tracer experiments. Environmental Science & Technology, 1989, 23, 51-56.	10.0	307
3	Effect of organic contamination upon microbial distributions and heterotrophic uptake in a Cape Cod, Mass., aquifer. Applied and Environmental Microbiology, 1984, 48, 1197-1202.	3.1	242
4	Transport ofCryptosporidiumOocysts in Porous Media:Â Role of Straining and Physicochemical Filtrationâ€. Environmental Science & Technology, 2004, 38, 5932-5938.	10.0	219
5	Bacteriophage PRD1 and Silica Colloid Transport and Recovery in an Iron Oxide-Coated Sand Aquifer. Environmental Science & Technology, 1999, 33, 63-73.	10.0	199
6	Transport and Fate of Microbial Pathogens in Agricultural Settings. Critical Reviews in Environmental Science and Technology, 2013, 43, 775-893.	12.8	197
7	Effects of the Antimicrobial Sulfamethoxazole on Groundwater Bacterial Enrichment. Environmental Science & Technology, 2011, 45, 3096-3101.	10.0	175
8	Humic Acid Facilitates the Transport of ARS-Labeled Hydroxyapatite Nanoparticles in Iron Oxyhydroxide-Coated Sand. Environmental Science & Technology, 2012, 46, 2738-2745.	10.0	172
9	Laboratory investigations on the role of sediment surface and groundwater chemistry in transport of bacteria through a contaminated sandy aquifer. Environmental Science & Technology, 1992, 26, 1410-1417.	10.0	170
10	Transport and Recovery of Bacteriophage PRD1 in a Sand and Gravel Aquifer:Â Effect of Sewage-Derived Organic Matter. Environmental Science & Technology, 1997, 31, 1163-1170.	10.0	163
11	What Makes a Natural Clay Antibacterial?. Environmental Science & Technology, 2011, 45, 3768-3773.	10.0	163
12	The reversibility of virus attachment to mineral surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 107, 205-221.	4.7	162
13	Role of physical heterogeneity in the interpretation of small-scale laboratory and field observations of bacteria, microbial-sized microsphere, and bromide transport through aquifer sediments. Water Resources Research, 1993, 29, 2713-2721.	4.2	153
14	Field and Laboratory Investigations of Inactivation of Viruses (PRD1 and MS2) Attached to Iron Oxide-Coated Quartz Sand. Environmental Science & Technology, 2002, 36, 2403-2413.	10.0	141
15	Virus and Bacteria Transport in a Sandy Aquifer, Cape Cod, MA. Ground Water, 1995, 33, 653-661.	1.3	136
16	Role of chemotaxis in the transport of bacteria through saturated porous media. Advances in Water Resources, 2007, 30, 1608-1617.	3.8	132
17	Importance of closely spaced vertical sampling in delineating chemical and microbiological gradients in groundwater studies. Journal of Contaminant Hydrology, 1991, 7, 285-300.	3.3	110
18	Enumeration of Particle-Bound and Unattached Respiring Bacteria in the Salt Marsh Environment. Applied and Environmental Microbiology, 1980, 40, 156-160.	3.1	105

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19	Transport behavior of groundwater protozoa and protozoan-sized microspheres in sandy aquifer sediments. Applied and Environmental Microbiology, 1995, 61, 209-217.	3.1	103
20	Effect of Ferric Oxyhydroxide Grain Coatings on the Transport of Bacteriophage PRD1 andCryptosporidium parvumOocysts in Saturated Porous Mediaâ€. Environmental Science & Technology, 2005, 39, 6412-6419.	10.0	98
21	Protistan communities in aquifers: a review. FEMS Microbiology Reviews, 1997, 20, 261-275.	8.6	90
22	Microorganisms as tracers in groundwater injection and recovery experiments: a review. FEMS Microbiology Reviews, 1997, 20, 461-472.	8.6	77
23	Use of PRD1 bacteriophage in groundwater viral transport, inactivation, and attachment studies. FEMS Microbiology Ecology, 2004, 49, 3-16.	2.7	75
24	Bacterial Transport Experiments in Fractured Crystalline Bedrock. Ground Water, 2003, 41, 682-689.	1.3	70
25	Stochastic analysis of virus transport in aquifers. Water Resources Research, 1999, 35, 1987-2006.	4.2	64
26	Effect of cell physicochemical characteristics and motility on bacterial transport in groundwater. Journal of Contaminant Hydrology, 2004, 69, 195-213.	3.3	64
27	Influence of organic matter on the transport of Cryptosporidium parvum oocysts in a ferric oxyhydroxide-coated quartz sand saturated porous medium. Water Research, 2010, 44, 1104-1113.	11.3	64
28	Assessing the Vulnerability of a Municipal Well Field to Contamination in a Karst Aquifer. Environmental and Engineering Geoscience, 2005, 11, 319-331.	0.9	61
29	Sorption of lead onto two gram-negative marine bacteria in seawater. Marine Chemistry, 1985, 15, 333-344.	2.3	57
30	Associations of free-living bacteria and dissolved organic compounds in a plume of contaminated groundwater. Journal of Contaminant Hydrology, 1992, 9, 91-103.	3.3	57
31	Physiological Considerations in Applying Laboratory-Determined Buoyant Densities to Predictions of Bacterial and Protozoan Transport in Groundwater:Â Results of In-Situ and Laboratory Tests. Environmental Science & Technology, 1997, 31, 289-295.	10.0	53
32	Enrichment and Association of Bacteria and Particulates in Salt Marsh Surface Water. Applied and Environmental Microbiology, 1980, 39, 894-899.	3.1	52
33	Field Evidence for a Protistan Role in an Organically-Contaminated Aquifer. Environmental Science & Technology, 2002, 36, 4312-4318.	10.0	44
34	Effects on Groundwater Microbial Communities of an Engineered 30-Day In Situ Exposure to the Antibiotic Sulfamethoxazole. Environmental Science & Technology, 2012, 46, 7478-7486.	10.0	44
35	Transport of ARS-labeled hydroxyapatite nanoparticles in saturated granular media is influenced by surface charge variability even in the presence of humic acid. Journal of Hazardous Materials, 2012, 229-230, 170-176.	12.4	43
36	Influence of water chemistry and travel distance on bacteriophage PRD-1 transport in a sandy aquifer. Water Research, 2005, 39, 2345-2357.	11.3	41

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37	Revisiting the Cape Cod Bacteria Injection Experiment Using a Stochastic Modeling Approach. Environmental Science & Technology, 2007, 41, 5548-5558.	10.0	41
38	Surface Complexation of Carboxylate Adheres Cryptosporidium parvum Ã–ocysts to the Hematiteâ^'Water Interface. Environmental Science & Technology, 2009, 43, 7423-7429.	10.0	38
39	Future research needs involving pathogens in groundwater. Hydrogeology Journal, 2017, 25, 931-938.	2.1	38
40	Pathogen and chemical transport in the karst limestone of the Biscayne aquifer: 3. Use of microspheres to estimate the transport potential of Cryptosporidium parvum oocysts. Water Resources Research, 2008, 44, .	4.2	36
41	Effects of altered groundwater chemistry upon the pH-dependency and magnitude of bacterial attachment during transport within an organically contaminated sandy aquifer. Water Research, 2010, 44, 1062-1071.	11.3	33
42	Protists from a sewageâ€contaminated aquifer on cape cod, Massachusetts. Geomicrobiology Journal, 1994, 12, 23-36.	2.0	32
43	Pathogen and chemical transport in the karst limestone of the Biscayne aquifer: 1. Revised conceptualization of groundwater flow. Water Resources Research, 2008, 44, .	4.2	32
44	The role of bacterial exopolymer and suspended bacteria in the nutrition of the deposit-feeding clam, <I>Macoma balthica</I>. Journal of Marine Research, 1984, 42, 957-968.	0.3	31
45	Particulate matter. Its association with microorganisms and trace metals in an estuarine salt marsh microlayer. Environmental Science & Technology, 1979, 13, 1522-1525.	10.0	29
46	Coupled Effect of Chemotaxis and Growth on Microbial Distributions in Organic-Amended Aquifer Sediments: Observations from Laboratory and Field Studies. Environmental Science & Technology, 2008, 42, 3556-3562.	10.0	28
47	Evaluating Microbial Purification during Soil Treatment of Wastewater with Multicomponent Tracer and Surrogate Tests. Journal of Environmental Quality, 2004, 33, 316-329.	2.0	27
48	Comparison of transport and attachment behaviors of Cryptosporidium parvum oocysts and oocyst-sized microspheres being advected through three minerologically different granular porous media. Water Research, 2010, 44, 5334-5344.	11.3	25
49	Mobilization of Microspheres from a Fractured Soil during Intermittent Infiltration Events. Vadose Zone Journal, 2015, 14, vzj2014.05.0058.	2.2	25
50	Effect of flagellates on free-living bacterial abundance in an organically contaminated aquifer. FEMS Microbiology Reviews, 1997, 20, 249-259.	8.6	24
51	Effect of treated-sewage contamination upon bacterial energy charge, adenine nucleotides, and DNA content in a sandy aquifer on Cape Cod. Applied and Environmental Microbiology, 1993, 59, 2304-2310.	3.1	24
52	Pathogen and chemical transport in the karst limestone of the Biscayne aquifer: 2. Chemical retention from diffusion and slow advection. Water Resources Research, 2008, 44, .	4.2	23
53	Colloid transport in saturated porous media: Elimination of attachment efficiency in a new colloid transport model. Water Resources Research, 2013, 49, 2952-2965.	4.2	23
54	Mechanisms for trace metal enrichment at the surface microlayer in an estuarine salt marsh. Marine Chemistry, 1982, 11, 235-244.	2.3	21

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55	Influence of organic carbon loading, sediment associated metal oxide content and sediment grain size distributions upon Cryptosporidium parvum removal during riverbank filtration operations, Sonoma County, CA. Water Research, 2010, 44, 1126-1137.	11.3	21
56	Differential Effects of Dissolved Organic Carbon upon Re-Entrainment and Surface Properties of Groundwater Bacteria and Bacteria-Sized Microspheres during Transport through a Contaminated, Sandy Aquifer. Environmental Science & Technology, 2011, 45, 3252-3259.	10.0	19
57	Application of a Hollow-Fiber, Tangential-Flow Device for Sampling Suspended Bacteria and Particles from Natural Waters. Journal of Environmental Quality, 1990, 19, 625-629.	2.0	15
58	Effect of Growth Conditions and Staining Procedure upon the Subsurface Transport and Attachment Behaviors of a Groundwater Protist. Applied and Environmental Microbiology, 2002, 68, 1872-1881.	3.1	15
59	Use of Carboxylated Microspheres to Assess Transport Potential ofCryptosporidium parvumOocysts at the Russian River Water Supply Facility, Sonoma County, California. Geomicrobiology Journal, 2007, 24, 231-245.	2.0	15
60	Importance of the Colmation Layer in the Transport and Removal of Cyanobacteria, Viruses, and Dissolved Organic Carbon during Natural Lake-Bank Filtration. Journal of Environmental Quality, 2015, 44, 1413-1423.	2.0	14
61	A fluorochrome-staining technique for counting bacteria in saline, organically enriched, alkaline lakes. Limnology and Oceanography, 1987, 32, 993-995.	3.1	13
62	Effect of Dissolved Organic Carbon on the Transport and Attachment Behaviors of Cryptosporidium parvum oocysts and Carboxylate-Modified Microspheres Advected through Temperate Humic and Tropical Volcanic Agricultural soil. Environmental Science & Technology, 2012, 46, 2088-2094.	10.0	12
63	Evaluating Microbial Purification during Soil Treatment of Wastewater with Multicomponent Tracer and Surrogate Tests. Journal of Environmental Quality, 2004, 33, 316.	2.0	12
64	Transport and distribution of bacteria and diatoms in the aqueous surface microlayer of a salt marsh. Estuarine, Coastal and Shelf Science, 1983, 16, 543-547.	2.1	7
65	Effects of Sediment-Associated Extractable Metals, Degree of Sediment Grain Sorting, and Dissolved Organic Carbon upon Cryptosporidium parvum Removal and Transport within Riverbank Filtration Sediments, Sonoma County, California. Environmental Science & Technology, 2011, 45, 5587-5595.	10.0	6
66	Fluorescent Microspheres as Surrogates in Evaluating the Efficacy of Riverbank Filtration for Removing Cryptosporidium parvum Oocysts and Other Pathogens. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 81-96.	0.2	6
67	Fate and transport of bacteria injected into aquifers. Current Opinion in Biotechnology, 1993, 4, 312-317.	6.6	5
68	Reply [to â€œComment on â€˜Stochastic analysis of virus transport in aquifers,â€™ by Linda L. Campbell Rehmann, Claire Welty, and Ronald W. Harveyâ€]. Water Resources Research, 2000, 36, 1983-1984.	4.2	5
69	Impact of fluorochrome stains used to study bacterial transport in shallow aquifers on motility and chemotaxis of Pseudomonas species. FEMS Microbiology Ecology, 2012, 81, 163-171.	2.7	4
70	Microbial-sized, Carboxylate-modified Microspheres as Surrogate Tracers in a Variety of Subsurface Environments: An Overview. Procedia Earth and Planetary Science, 2017, 17, 372-375.	0.6	4
71	Correspondence. Response to comment on "Use of colloid filtration theory in modeling movement of bacteria through a contaminated sandy aquifer". Environmental Science & Technology, 1992, 26, 401-402.	10.0	3
72	Microorganisms as tracers in groundwater injection and recovery experiments: a review. FEMS Microbiology Reviews, 1997, 20, 461-472.	8.6	3