

Patrick L Gurian

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

2,045
citations

279798

23
h-index

276875

41
g-index

110
all docs

110
docs citations

110
times ranked

2405
citing authors

#	ARTICLE	IF	CITATIONS
1	Using QMRA to understand possible exposure risks of SARS-CoV-2 from the water environment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 7240-7253.	5.3	5
2	Influence of Hot Water Temperature and Use Patterns on Microbial Water Quality in Building Plumbing Systems. <i>Environmental Engineering Science</i> , 2022, 39, 309-319.	1.6	13
3	Practitionersâ€™ Perspective on the Prevalent Water Quality Management Practices for Legionella Control in Large Buildings in the United States. <i>Water (Switzerland)</i> , 2022, 14, 663.	2.7	4
4	Conceptualization to Development of a Decision Support Tool to Manage Building Water Quality. , 2021, , .		1
5	Impact of successive rainfall events on the dynamic relationship between vegetation canopies, infiltration, and recharge in engineered urban green infrastructure systems. <i>Ecohydrology</i> , 2020, 13, e2185.	2.4	11
6	A preliminary assessment of coastal Glâ€™s role during Hurricane Sandy: a case study of three communities. <i>Urban Water Journal</i> , 2020, 17, 356-367.	2.1	2
7	Propagating downscaled future weather file uncertainties into building energy use. <i>Applied Energy</i> , 2020, 278, 115655.	10.1	16
8	Observed variability in soil moisture in engineered urban green infrastructure systems and linkages to ecosystem services. <i>Journal of Hydrology</i> , 2020, 590, 125381.	5.4	16
9	Full factorial study of pipe characteristics, stagnation times, and water quality. <i>AWWA Water Science</i> , 2020, 2, e1204.	2.1	13
10	An optimization framework to identify key management strategies for improving biorefinery performance: a case study of winter barley production. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 1296-1312.	3.7	2
11	The Role of Biorefinery Co-Products, Market Proximity and Feedstock Environmental Footprint in Meeting Biofuel Policy Goals for Winter Barley-to-Ethanol. <i>Energies</i> , 2020, 13, 2236.	3.1	7
12	Required water temperature in hotel plumbing to control Legionella growth. <i>Water Research</i> , 2020, 182, 115943.	11.3	25
13	Managing Water Quality in Premise Plumbing: Subject Matter Expertsâ€™ Perspectives and a Systematic Review of Guidance Documents. <i>Water (Switzerland)</i> , 2020, 12, 347.	2.7	33
14	Risk-Based Critical Concentrations of <i>Legionella pneumophila</i> for Indoor Residential Water Uses. <i>Environmental Science & Technology</i> , 2019, 53, 4528-4541.	10.0	77
15	Quantification of Stemflow in Three Isolated Shrub Species in an Urban Environment. <i>Frontiers in Built Environment</i> , 2019, 5, .	2.3	0
16	Reverse QMRA as a Decision Support Tool: Setting Acceptable Concentration Limits for <i>Pseudomonas aeruginosa</i> and <i>Naegleria fowleri</i> . <i>Water (Switzerland)</i> , 2019, 11, 1850.	2.7	22
17	Development of a new reduced order model for predicting the energy savings of multi-ECM permutations. <i>Energy and Buildings</i> , 2019, 182, 287-299.	6.7	0
18	Salmonella risks due to consumption of aquaculture-produced shrimp. <i>Microbial Risk Analysis</i> , 2018, 9, 22-32.	2.3	22

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19	A greenhouse gas abatement framework for investment in district heating. <i>Applied Energy</i> , 2018, 211, 1095-1105.	10.1	35
20	Framework for improved confidence in modeled nitrous oxide estimates for biofuel regulatory standards. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018, 23, 1281-1301.	2.1	8
21	Strategies to achieve deep reductions in metropolitan transportation GHG emissions: the case of Philadelphia. <i>Transportation Planning and Technology</i> , 2018, 41, 797-815.	2.0	5
22	Development of community of practice to support quantitative risk assessment for synthetic biology products: contaminant bioremediation and invasive carp control as cases. <i>Environment Systems and Decisions</i> , 2018, 38, 517-527.	3.4	17
23	Assessing Residential Exposure Risk from Spills of Flowback Water from Marcellus Shale Hydraulic Fracturing Activity. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 727.	2.6	8
24	Frequency Analysis of Failure Scenarios from Shale Gas Development. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 885.	2.6	4
25	Evaluating the long-term persistence of <i>Bacillus</i> spores on common surfaces. <i>Microbial Biotechnology</i> , 2018, 11, 1048-1059.	4.2	8
26	An evaluation of changes in opinion from an expert workshop on turbidity in drinking water supplies and acute gastrointestinal illness. <i>International Journal of Environmental Technology and Management</i> , 2018, 21, 37.	0.2	0
27	Persistence analysis of poliovirus on three different types of fomites. <i>Journal of Applied Microbiology</i> , 2017, 122, 522-530.	3.1	9
28	Review of Epidemiological Studies of Drinking-Water Turbidity in Relation to Acute Gastrointestinal Illness. <i>Environmental Health Perspectives</i> , 2017, 125, 086003.	6.0	31
29	Risk Assessment for Children Exposed to Beach Sands Impacted by Oil Spill Chemicals. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 853.	2.6	20
30	Closure on "Characterization of Marcellus Shale Flowback Water". <i>Environmental Engineering Science</i> , 2016, 33, 66-66.	1.6	2
31	Evaluating Green Infrastructure Stormwater Capture Performance under Extreme Precipitation. <i>Journal of Extreme Events</i> , 2016, 03, 1650006.	1.1	15
32	Comparison of Observed Infiltration Rates of Different Permeable Urban Surfaces Using a Cornell Sprinkle Infiltrometer. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.9	21
33	Assessing dermal exposure risk to workers from flowback water during shale gas hydraulic fracturing activity. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 969-978.	4.4	17
34	Statistical analysis of compliance violations for natural gas wells in Pennsylvania. <i>Energy Policy</i> , 2016, 97, 421-428.	8.8	7
35	Perceptions in the U.S. building industry of the benefits and costs of improving indoor air quality. <i>Indoor Air</i> , 2016, 26, 318-330.	4.3	28
36	Quantifying the human-building interaction: Considering the active, adaptive occupant in building performance simulation. <i>Energy and Buildings</i> , 2016, 117, 372-386.	6.7	46

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37	Risk-Based Decision Making for Reoccupation of Contaminated Areas Following a Wide-Area Anthrax Release. <i>Risk Analysis</i> , 2015, 35, 1348-1363.	2.7	8
38	Drinking water intake and source patterns within a US-Mexico border population. <i>International Journal of Environmental Health Research</i> , 2015, 25, 21-32.	2.7	6
39	Simulating the human-building interaction: Development and validation of an agent-based model of office occupant behaviors. <i>Building and Environment</i> , 2015, 88, 27-45.	6.9	168
40	Updating a <i>B. anthracis</i> Risk Model with Field Data from a Bioterrorism Incident. <i>Environmental Science & Technology</i> , 2015, 49, 6701-6711.	10.0	5
41	Tracking the human-building interaction: A longitudinal field study of occupant behavior in air-conditioned offices. <i>Journal of Environmental Psychology</i> , 2015, 42, 94-115.	5.1	115
42	Participatory engineering for recovery in post-earthquake Haiti. <i>Engineering Studies</i> , 2014, 6, 159-190.	1.3	20
43	Characterization of Marcellus Shale Flowback Water. <i>Environmental Engineering Science</i> , 2014, 31, 514-524.	1.6	112
44	Application of quantitative microbial risk assessment for selection of microbial reduction targets for hard surface disinfectants. <i>American Journal of Infection Control</i> , 2014, 42, 1165-1172.	2.3	54
45	Assessing worker exposure to inhaled volatile organic compounds from Marcellus Shale flowback pits. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 348-356.	4.4	24
46	Assessing preferences regarding centralized and decentralized water infrastructure in post-earthquake Leogane, Haiti. <i>Earth Perspectives – Transdisciplinarity Enabled</i> , 2014, 1, 5.	1.4	4
47	<i>Cryptosporidium</i> and <i>Giardia</i> in tropical recreational marine waters contaminated with domestic sewage: Estimation of bathing-associated disease risks. <i>Marine Pollution Bulletin</i> , 2014, 85, 268-273.	5.0	36
48	Modeling thermal comfort holistically: Bayesian estimation of thermal sensation, acceptability, and preference distributions for office building occupants. <i>Building and Environment</i> , 2013, 69, 206-226.	6.9	74
49	Reducing energy consumption in low income public housing: Interviewing residents about energy behaviors. <i>Applied Energy</i> , 2013, 102, 1358-1370.	10.1	108
50	Development of Failure Scenarios for Biosolids Land Application Risk Assessment. <i>Water Environment Research</i> , 2013, 85, 141-150.	2.7	5
51	First Responder Knowledge and Training Needs for Bioterrorism. <i>Journal of Homeland Security and Emergency Management</i> , 2013, 10, .	0.5	2
52	Attitudes toward post-earthquake water and sanitation management and payment options in Leogane, Haiti. <i>Water International</i> , 2013, 38, 744-757.	1.0	16
53	Committee Report: Getting Information to small systems: Information dissemination survey of engineers and regulators. <i>Journal - American Water Works Association</i> , 2013, 105, 51-59.	0.3	1
54	Acceptable microbial risk: Cost-benefit analysis of a boil water order for <i>Cryptosporidium</i> . <i>Journal - American Water Works Association</i> , 2013, 105, E189.	0.3	2

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55	The Extraction of a <i>Bacillus anthracis</i> Surrogate from HVAC Filters. Indoor and Built Environment, 2012, 21, 562-567.	2.8	7
56	Determination of Critical Rainfall Events for Quantitative Microbial Risk Assessment of Land-Applied Soil Amendments. Journal of Hydrologic Engineering - ASCE, 2012, 17, 437-444.	1.9	5
57	Characterizing Bioaerosol Risk from Environmental Sampling. Environmental Science & Technology, 2012, 46, 6714-6722.	10.0	9
58	Risk assessment strategies as nanomaterials transition into commercial applications. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	27
59	Variance in <i>Bacillus anthracis</i> virulence assessed through Bayesian hierarchical dose-response modelling. Journal of Applied Microbiology, 2012, 113, 265-275.	3.1	8
60	Relating occupant perceived control and thermal comfort: Statistical analysis on the ASHRAE RP-884 database. HVAC and R Research, 2012, 18, 179-194.	0.6	7
61	Prioritizing Risks and Uncertainties from Intentional Release of Selected Category A Pathogens. PLoS ONE, 2012, 7, e32732.	2.5	14
62	Finding Risk-Based Switchover Points for Response Decisions for Environmental Exposure to <i>Bacillus anthracis</i> . Human and Ecological Risk Assessment (HERA), 2011, 17, 489-509.	3.4	12
63	Correlates of Arsenic Mobilization into the Groundwater in El Paso, Texas. Air, Soil and Water Research, 2011, 4, ASWR.S6356.	2.5	4
64	Event-Based Microbial Risk Assessment and Response Analysis of <i>Cryptosporidium</i> in Municipal Water Distribution Networks. , 2011, , .		1
65	The origin of federal drinking water quality standards. Proceedings of the ICE - Engineering History and Heritage, 2011, 164, 17-26.	0.2	3
66	Isolation of Airborne Oxacillin-Resistant <i>Staphylococcus aureus</i> from Culturable Air Samples of Urban Residences. Journal of Occupational and Environmental Hygiene, 2011, 8, 80-85.	1.0	11
67	Metrics for Comparing Microbial Risk from Biosolids. Proceedings of the Water Environment Federation, 2010, 2010, 1332-1335.	0.0	0
68	Setting Risk-Informed Environmental Standards for <i>Bacillus Anthracis</i> Spores. Risk Analysis, 2010, 30, 1602-1622.	2.7	21
69	Arsenic exposure in US public and domestic drinking water supplies: A comparative risk assessment. Journal of Exposure Science and Environmental Epidemiology, 2010, 20, 245-254.	3.9	45
70	Pathogens and Indicators in United States Class B Biosolids: National and Historic Distributions. Journal of Environmental Quality, 2010, 39, 2185-2190.	2.0	32
71	How Sensitive Is Safe? Risk-Based Targets for Ambient Monitoring of Pathogens. IEEE Sensors Journal, 2010, 10, 668-673.	4.7	8
72	Determination of Critical Rainfall Events for Quantitative Microbial Risk Assessment of Biosolids-Associated Pathogens. Proceedings of the Water Environment Federation, 2010, 2010, 797-812.	0.0	1

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73	Innovative Technologies Increase Evaporation Pond Efficiency. <i>IDA Journal of Desalination and Water Reuse</i> , 2010, 2, 72-78.	0.4	10
74	Entertainment&education and CO poisonings in ciudad JuÃ¡rez: A case study ofEl Asesino invisible. <i>Journal of Borderlands Studies</i> , 2009, 24, 91-99.	1.4	0
75	Evaluation of neighborhood treatment systems for potable water supply. <i>International Journal of Environmental Health Research</i> , 2009, 19, 49-58.	2.7	1
76	Prediction of Nitrate Concentration in Stream Water Based on Watershed Land Use and Stream Flow Rate. , 2009, , .		0
77	Extending the Risk Assessment Framework for Pathogens in Biosolids. <i>Proceedings of the Water Environment Federation</i> , 2009, 2009, 174-187.	0.0	2
78	Applying the mental models framework to carbon monoxide risk in northern Mexico. <i>Revista Panamericana De Salud Publica/Pan American Journal of Public Health</i> , 2009, 25, 242-253.	1.1	16
79	Carbon monoxide exposure in households in Ciudad JuÃ¡rez, MÃ©xico. <i>International Journal of Hygiene and Environmental Health</i> , 2008, 211, 40-49.	4.3	12
80	Observed and Perceived Inconsistencies in U.S. Border Inspections. <i>Journal of Homeland Security and Emergency Management</i> , 2008, 5, .	0.5	0
81	Iron oxide coating of geosynthetic fibers for water treatment applications. <i>Geosynthetics International</i> , 2008, 15, 471-479.	2.9	1
82	Iron oxide&coated fibrous sorbents for arsenic removal. <i>Journal - American Water Works Association</i> , 2008, 100, 151.	0.3	24
83	Design of a Site-Built Integrated Collector Storage Solar Water Heater Under Uncertainty. <i>The Open Renewable Energy Journal</i> , 2008, 1, 17-25.	0.7	3
84	Integrating human, natural and engineered systems and associated paradigms for infrastructure asset management. , 2008, , .		0
85	General Methodology Combining Engineering Optimization of Primary HVAC&R Plants with Decision Analysis Methods&Part II: Uncertainty and Decision Analysis. <i>HVAC and R Research</i> , 2007, 13, 119-140.	0.6	16
86	Factors Affecting Stress Crack Resistance of Corrugated High-Density Polyethylene Pipe. <i>Transportation Research Record</i> , 2007, 2028, 183-191.	1.9	1
87	Trade-Offs between Security and Inspection Capacity. <i>Transportation Research Record</i> , 2006, 1942, 16-22.	1.9	2
88	Decision Methodology for Allocating Funds across Transportation Infrastructure Assets. <i>Journal of Infrastructure Systems</i> , 2006, 12, 1-9.	1.8	47
89	Evaluating in-home water purification methods for communities in Texas on the border with Mexico. <i>Revista Panamericana De Salud Publica/Pan American Journal of Public Health</i> , 2006, 20, 403-406.	1.1	2
90	Trade-Offs Between Security and Inspection Capacity: Policy Options for Land Border Ports of Entry. <i>Transportation Research Record</i> , 2006, 1942, 16-22.	1.9	2

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91	Development of a Multi-Resolution Large-Scale Vehicular Traffic Simulation and Assignment Model to Assess Impact of Port-of-Entry on Regional Infrastructure. , 2005, , 1.		3
92	The In-Home Environment and Household Health: A Cross-Sectional Study of Informal Urban Settlements in Northern MÃ©xico. International Journal of Environmental Research and Public Health, 2005, 2, 394-402.	2.6	18
93	Unintentional Carbon Monoxide Poisoning Cases in Ciudad JuÃ¡rez, Mexico. Southern Medical Journal, 2005, 98, 954-955.	0.7	4
94	Inland Sulfate Deposition in North America from Marine Emissions. Transportation Research Record, 2004, 1871, 50-54.	1.9	0
95	Benefitâ€“Cost Implications of Multicontaminant Drinking Waters Tandarads. Journal - American Water Works Association, 2004, 96, 70-83.	0.3	11
96	Understanding the Associations Between Statewide Diabetes Prevalence and Air Pollution Emissions. Diabetes Care, 2004, 27, 1515-1517.	8.6	4
97	Peri-urbanization and in-home environmental health risks: the side effects of planned and unplanned growth. International Journal of Hygiene and Environmental Health, 2004, 207, 447-454.	4.3	29
98	Analysis of Contaminant Co-Occurrence in Community Water Systems. Journal of the American Statistical Association, 2004, 99, 45-56.	3.1	12
99	Pointâ€“ofâ€“use treatment and the revised arsenic MCL. Journal - American Water Works Association, 2002, 94, 101-108.	0.3	14
100	Benefit-cost estimation for alternative drinking water maximum contaminant levels. Water Resources Research, 2001, 37, 2213-2226.	4.2	21
101	Characterization of Arsenic Occurrence in Source Waters of U.S. Community Water Systems. Journal of the American Statistical Association, 2001, 96, 1184-1193.	3.1	20
102	Addressing Uncertainty and Conflicting Cost Estimates in Revising the Arsenic MCL. Environmental Science & Technology, 2001, 35, 4414-4420.	10.0	30
103	Aluminium complexes of N,Nâ€™-ethylenebis(salicylideneimine)(H ₂ salen). X-Ray crystal structures of [{Al(salen)} ₂ (μ -O)] \cdot MeCN and [Al(OC ₆ H ₂ Me ₃ -2,4,6)(salen)]. Journal of the Chemical Society Dalton Transactions, 1991, , 1449-1456.	1.1	70
104	Aluminum citrate: isolation and structural characterization of a stable trinuclear complex. Inorganic Chemistry, 1990, 29, 408-411.	4.0	126
105	Site Specific Risk Assessment Tools for Land Applied Biosolids. Water Intelligence Online, 0, 11, .	0.3	2
106	Is Urban Agriculture Financially Sustainable? An Exploratory Study of Small-Scale Market Farming in Philadelphia, Pennsylvania. Journal of Agriculture, Food Systems, and Community Development, 0, , 1-17.	2.4	13
107	The Persistence of Indicators and Pathogens in Wastewater Biosolids-amended Soil. , 0, , .		2