

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	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
2	Aluminum citrate: isolation and structural characterization of a stable trinuclear complex. <i>Inorganic Chemistry</i> , 1990, 29, 408-411.	4.0	126
3	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
4	Characterization of Marcellus Shale Flowback Water. <i>Environmental Engineering Science</i> , 2014, 31, 514-524.	1.6	112
5	Reducing energy consumption in low income public housing: Interviewing residents about energy behaviors. <i>Applied Energy</i> , 2013, 102, 1358-1370.	10.1	108
6	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
7	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
8	Aluminium complexes of N,N'-ethylenebis(salicylideneimine)(H ₂ salen). X-Ray crystal structures of [Al(salen) ₂ (μ-O)]·MeCN and [Al(OC ₆ H ₂ Me ₃ -2,4,6)(salen)]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 1449-1456.	1.1	70
9	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
10	Decision Methodology for Allocating Funds across Transportation Infrastructure Assets. <i>Journal of Infrastructure Systems</i> , 2006, 12, 1-9.	1.8	47
11	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
12	Arsenic exposure in US public and domestic drinking water supplies: A comparative risk assessment. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2010, 20, 245-254.	3.9	45
13	Cryptosporidium and Giardia 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
14	A greenhouse gas abatement framework for investment in district heating. <i>Applied Energy</i> , 2018, 211, 1095-1105.	10.1	35
15	Managing Water Quality in Premise Plumbing: Subject Matter Experts™ Perspectives and a Systematic Review of Guidance Documents. <i>Water (Switzerland)</i> , 2020, 12, 347.	2.7	33
16	Pathogens and Indicators in United States Class B Biosolids: National and Historic Distributions. <i>Journal of Environmental Quality</i> , 2010, 39, 2185-2190.	2.0	32
17	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
18	Addressing Uncertainty and Conflicting Cost Estimates in Revising the Arsenic MCL. <i>Environmental Science & Technology</i> , 2001, 35, 4414-4420.	10.0	30

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19	Peri-urbanization and in-home environmental health risks: the side effects of planned and unplanned growth. <i>International Journal of Hygiene and Environmental Health</i> , 2004, 207, 447-454.	4.3	29
20	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
21	Risk assessment strategies as nanomaterials transition into commercial applications. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	27
22	Required water temperature in hotel plumbing to control <i>Legionella</i> growth. <i>Water Research</i> , 2020, 182, 115943.	11.3	25
23	Iron oxide-coated fibrous sorbents for arsenic removal. <i>Journal - American Water Works Association</i> , 2008, 100, 151.	0.3	24
24	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
25	Salmonella risks due to consumption of aquaculture-produced shrimp. <i>Microbial Risk Analysis</i> , 2018, 9, 22-32.	2.3	22
26	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
27	Benefit-cost estimation for alternative drinking water maximum contaminant levels. <i>Water Resources Research</i> , 2001, 37, 2213-2226.	4.2	21
28	Setting Risk-Informed Environmental Standards for <i>Bacillus Anthracis</i> Spores. <i>Risk Analysis</i> , 2010, 30, 1602-1622.	2.7	21
29	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
30	Characterization of Arsenic Occurrence in Source Waters of U.S. Community Water Systems. <i>Journal of the American Statistical Association</i> , 2001, 96, 1184-1193.	3.1	20
31	Participatory engineering for recovery in post-earthquake Haiti. <i>Engineering Studies</i> , 2014, 6, 159-190.	1.3	20
32	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
33	The In-Home Environment and Household Health: A Cross-Sectional Study of Informal Urban Settlements in Northern Mexico. <i>International Journal of Environmental Research and Public Health</i> , 2005, 2, 394-402.	2.6	18
34	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
35	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
36	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

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37	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
38	Propagating downscaled future weather file uncertainties into building energy use. <i>Applied Energy</i> , 2020, 278, 115655.	10.1	16
39	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
40	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
41	Evaluating Green Infrastructure Stormwater Capture Performance under Extreme Precipitation. <i>Journal of Extreme Events</i> , 2016, 03, 1650006.	1.1	15
42	Point-of-use treatment and the revised arsenic MCL. <i>Journal - American Water Works Association</i> , 2002, 94, 101-108.	0.3	14
43	Prioritizing Risks and Uncertainties from Intentional Release of Selected Category A Pathogens. <i>PLoS ONE</i> , 2012, 7, e32732.	2.5	14
44	Full factorial study of pipe characteristics, stagnation times, and water quality. <i>AWWA Water Science</i> , 2020, 2, e1204.	2.1	13
45	Is Urban Agriculture Financially Sustainable? An Exploratory Study of Small-Scale Market Farming in Philadelphia, Pennsylvania. <i>Journal of Agriculture, Food Systems, and Community Development</i> , 0, , 1-17.	2.4	13
46	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
47	Analysis of Contaminant Co-Occurrence in Community Water Systems. <i>Journal of the American Statistical Association</i> , 2004, 99, 45-56.	3.1	12
48	Carbon monoxide exposure in households in Ciudad Juárez, México. <i>International Journal of Hygiene and Environmental Health</i> , 2008, 211, 40-49.	4.3	12
49	Finding Risk-Based Switchover Points for Response Decisions for Environmental Exposure to <i>Bacillus anthracis</i> . <i>Human and Ecological Risk Assessment (HERA)</i> , 2011, 17, 489-509.	3.4	12
50	Benefit-Cost Implications of Multicontaminant Drinking Waters Standards. <i>Journal - American Water Works Association</i> , 2004, 96, 70-83.	0.3	11
51	Isolation of Airborne Oxacillin-Resistant <i>Staphylococcus aureus</i> from Culturable Air Samples of Urban Residences. <i>Journal of Occupational and Environmental Hygiene</i> , 2011, 8, 80-85.	1.0	11
52	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
53	Innovative Technologies Increase Evaporation Pond Efficiency. <i>IDA Journal of Desalination and Water Reuse</i> , 2010, 2, 72-78.	0.4	10
54	Characterizing Bioaerosol Risk from Environmental Sampling. <i>Environmental Science & Technology</i> , 2012, 46, 6714-6722.	10.0	9

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55	Persistence analysis of poliovirus on three different types of fomites. <i>Journal of Applied Microbiology</i> , 2017, 122, 522-530.	3.1	9
56	How Sensitive Is Safe? Risk-Based Targets for Ambient Monitoring of Pathogens. <i>IEEE Sensors Journal</i> , 2010, 10, 668-673.	4.7	8
57	Variance in <i>Bacillus anthracis</i> virulence assessed through Bayesian hierarchical dose-response modelling. <i>Journal of Applied Microbiology</i> , 2012, 113, 265-275.	3.1	8
58	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
59	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
60	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
61	Evaluating the long-term persistence of <i>Bacillus</i> spores on common surfaces. <i>Microbial Biotechnology</i> , 2018, 11, 1048-1059.	4.2	8
62	The Extraction of a <i>Bacillus anthracis</i> Surrogate from HVAC Filters. <i>Indoor and Built Environment</i> , 2012, 21, 562-567.	2.8	7
63	Statistical analysis of compliance violations for natural gas wells in Pennsylvania. <i>Energy Policy</i> , 2016, 97, 421-428.	8.8	7
64	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
65	Relating occupant perceived control and thermal comfort: Statistical analysis on the ASHRAE RP-884 database. <i>HVAC and R Research</i> , 2012, 18, 179-194.	0.6	7
66	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
67	Determination of Critical Rainfall Events for Quantitative Microbial Risk Assessment of Land-Applied Soil Amendments. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 437-444.	1.9	5
68	Development of Failure Scenarios for Biosolids Land Application Risk Assessment. <i>Water Environment Research</i> , 2013, 85, 141-150.	2.7	5
69	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
70	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
71	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
72	Understanding the Associations Between Statewide Diabetes Prevalence and Air Pollution Emissions. <i>Diabetes Care</i> , 2004, 27, 1515-1517.	8.6	4

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73	Correlates of Arsenic Mobilization into the Groundwater in El Paso, Texas. Air, Soil and Water Research, 2011, 4, ASWR.S6356.	2.5	4
74	Assessing preferences regarding centralized and decentralized water infrastructure in post-earthquake Leogane, Haiti. Earth Perspectives – Transdisciplinarity Enabled, 2014, 1, 5.	1.4	4
75	Frequency Analysis of Failure Scenarios from Shale Gas Development. International Journal of Environmental Research and Public Health, 2018, 15, 885.	2.6	4
76	Unintentional Carbon Monoxide Poisoning Cases in Ciudad Juárez, Mexico. Southern Medical Journal, 2005, 98, 954-955.	0.7	4
77	Practitioners'™ Perspective on the Prevalent Water Quality Management Practices for Legionella Control in Large Buildings in the United States. Water (Switzerland), 2022, 14, 663.	2.7	4
78	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
79	The origin of federal drinking water quality standards. Proceedings of the ICE - Engineering History and Heritage, 2011, 164, 17-26.	0.2	3
80	Design of a Site-Built Integrated Collector Storage Solar Water Heater Under Uncertainty. The Open Renewable Energy Journal, 2008, 1, 17-25.	0.7	3
81	Trade-Offs between Security and Inspection Capacity. Transportation Research Record, 2006, 1942, 16-22.	1.9	2
82	Extending the Risk Assessment Framework for Pathogens in Biosolids. Proceedings of the Water Environment Federation, 2009, 2009, 174-187.	0.0	2
83	First Responder Knowledge and Training Needs for Bioterrorism. Journal of Homeland Security and Emergency Management, 2013, 10, .	0.5	2
84	Acceptable microbial risk: Cost-benefit analysis of a boil water order for <i>Cryptosporidium</i> . Journal - American Water Works Association, 2013, 105, E189.	0.3	2
85	Closure on "Characterization of Marcellus Shale Flowback Water". Environmental Engineering Science, 2016, 33, 66-66.	1.6	2
86	A preliminary assessment of coastal GI's role during Hurricane Sandy: a case study of three communities. Urban Water Journal, 2020, 17, 356-367.	2.1	2
87	An optimization framework to identify key management strategies for improving biorefinery performance: a case study of winter barley production. Biofuels, Bioproducts and Biorefining, 2020, 14, 1296-1312.	3.7	2
88	Evaluating in-home water purification methods for communities in Texas on the border with Mexico. Revista Panamericana De Salud Publica/Pan American Journal of Public Health, 2006, 20, 403-406.	1.1	2
89	Site Specific Risk Assessment Tools for Land Applied Biosolids. Water Intelligence Online, 0, 11, .	0.3	2
90	Trade-Offs Between Security and Inspection Capacity: Policy Options for Land Border Ports of Entry. Transportation Research Record, 2006, 1942, 16-22.	1.9	2

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91	The Persistence of Indicators and Pathogens in Wastewater Biosolids-amended Soil. , 0, , .		2
92	Iron oxide coating of geosynthetic fibers for water treatment applications. Geosynthetics International, 2008, 15, 471-479.	2.9	1
93	Evaluation of neighborhood treatment systems for potable water supply. International Journal of Environmental Health Research, 2009, 19, 49-58.	2.7	1
94	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
95	Event-Based Microbial Risk Assessment and Response Analysis of Cryptosporidium in Municipal Water Distribution Networks. , 2011, , .		1
96	Committee Report: Getting Information to small systems: Information dissemination survey of engineers and regulators. Journal - American Water Works Association, 2013, 105, 51-59.	0.3	1
97	Conceptualization to Development of a Decision Support Tool to Manage Building Water Quality. , 2021, , .		1
98	Factors Affecting Stress Crack Resistance of Corrugated High-Density Polyethylene Pipe. Transportation Research Record, 2007, 2028, 183-191.	1.9	1
99	Inland Sulfate Deposition in North America from Marine Emissions. Transportation Research Record, 2004, 1871, 50-54.	1.9	0
100	Observed and Perceived Inconsistencies in U.S. Border Inspections. Journal of Homeland Security and Emergency Management, 2008, 5, .	0.5	0
101	Entertainmentâ€education and CO poisonings in ciudad JuÃ¡rez: A case study ofEl Asesino invisible. Journal of Borderlands Studies, 2009, 24, 91-99.	1.4	0
102	Prediction of Nitrate Concentration in Stream Water Based on Watershed Land Use and Stream Flow Rate. , 2009, , .		0
103	Metrics for Comparing Microbial Risk from Biosolids. Proceedings of the Water Environment Federation, 2010, 2010, 1332-1335.	0.0	0
104	Quantification of Stemflow in Three Isolated Shrub Species in an Urban Environment. Frontiers in Built Environment, 2019, 5, .	2.3	0
105	Development of a new reduced order model for predicting the energy savings of multi-ECM permutations. Energy and Buildings, 2019, 182, 287-299.	6.7	0
106	Integrating human, natural and engineered systems and associated paradigms for infrastructure asset management. , 2008, , .		0
107	An evaluation of changes in opinion from an expert workshop on turbidity in drinking water supplies and acute gastrointestinal illness. International Journal of Environmental Technology and Management, 2018, 21, 37.	0.2	0