

Kasey M Faust

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

961
citations

516215

16
h-index

525886

27
g-index

76
all docs

76
docs citations

76
times ranked

766
citing authors

#	ARTICLE	IF	CITATIONS
1	BIM-based automated construction waste estimation algorithms: The case of concrete and drywall waste streams. <i>Waste Management</i> , 2019, 87, 825-832.	3.7	89
2	4D-BIM to enhance construction waste reuse and recycle planning: Case studies on concrete and drywall waste streams. <i>Waste Management</i> , 2020, 116, 79-90.	3.7	79
3	Water and Wastewater Infrastructure Management in Shrinking Cities. <i>Public Works Management Policy</i> , 2016, 21, 128-156.	0.7	49
4	Conference demographics and footprint changed by virtual platforms. <i>Nature Sustainability</i> , 2022, 5, 149-156.	11.5	47
5	Implications of Social Distancing Policies on Drinking Water Infrastructure: An Overview of the Challenges to and Responses of U.S. Utilities during the COVID-19 Pandemic. <i>ACS ES&T Water</i> , 2021, 1, 888-899.	2.3	46
6	Seven-dimensional automated construction waste quantification and management framework: Integration with project and site planning. <i>Resources, Conservation and Recycling</i> , 2019, 146, 462-474.	5.3	45
7	Construction waste generation estimates of institutional building projects: Leveraging waste hauling tickets. <i>Waste Management</i> , 2019, 87, 301-312.	3.7	41
8	Cascading system impacts of the 2018 Camp Fire in California: The interdependent provision of infrastructure services to displaced populations. <i>International Journal of Disaster Risk Reduction</i> , 2020, 50, 101822.	1.8	34
9	Water and Wastewater Systems and Utilities: Challenges and Opportunities during the COVID-19 Pandemic. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	31
10	Coupled Human and Water Infrastructure Systems Sector Interdependencies: Framework Evaluating the Impact of Cities Experiencing Urban Decline. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	29
11	Building Water and Wastewater System Resilience to Disaster Migration: Utility Perspectives. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	2.0	28
12	Subjective versus objective energy burden: A look at drivers of different metrics and regional variation of energy poor populations. <i>Energy Policy</i> , 2020, 144, 111616.	4.2	25
13	Prevalence of Intestinal Parasites in a Low-Income Texas Community. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 102, 1386-1395.	0.6	25
14	Statistical analysis of public perceptions of water infrastructure sustainability in shrinking cities. <i>Urban Water Journal</i> , 2016, 13, 618-628.	1.0	21
15	Public perceptions from hosting communities: The impact of displaced persons on critical infrastructure. <i>Sustainable Cities and Society</i> , 2019, 48, 101508.	5.1	20
16	Path towards community resilience: Examining stakeholders'™ coordination at the intersection of the built, natural, and social systems. <i>Sustainable Cities and Society</i> , 2021, 68, 102774.	5.1	19
17	Modeling complex human systems: An adaptable framework of urban food deserts. <i>Sustainable Cities and Society</i> , 2020, 52, 101795.	5.1	17
18	Human'™Water Infrastructure Interactions: Substituting Services Received for Bottled and Filtered Water in US Shrinking Cities. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	15

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19	Impacts of COVID-19 social distancing policies on water demand: A population dynamics perspective. <i>Journal of Environmental Management</i> , 2022, 302, 113949.	3.8	15
20	Legitimizing Involvement in Emergency Accommodations: Water and Wastewater Utility Perspectives. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	14
21	Toward Operationalizing Equity in Water Infrastructure Services: Developing a Definition of Water Equity. <i>ACS ES&T Water</i> , 2021, 1, 1849-1858.	2.3	14
22	Humanâ€“Infrastructure Interactions during the COVID-19 Pandemic: Understanding Water and Electricity Demand Profiles at the Building Level. <i>ACS ES&T Water</i> , 2021, 1, 2327-2338.	2.3	14
23	Effects of the COVID-19 Pandemic on Water Utility Operations and Vulnerability. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	14
24	Comparing Qualitative Analysis Techniques for Construction Engineering and Management Research: The Case of Arctic Water Infrastructure. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .	2.0	14
25	Transitioning from a Human Right to an Infrastructure Service: Water, Wastewater, and Displaced Persons in Germany. <i>Environmental Science & Technology</i> , 2017, 51, 12081-12088.	4.6	12
26	Perceptions versus reality: Assessing residential water conservation efforts in the household. <i>Resources, Conservation and Recycling</i> , 2020, 162, 105020.	5.3	12
27	Assessment of stakeholder perceptions in water infrastructure projects using system-of-systems and binary probit analyses: A case study. <i>Journal of Environmental Management</i> , 2013, 128, 866-876.	3.8	11
28	Willingness to Pay for Perceived Increased Costs of Water and Wastewater Service in Shrinking US Cities: A Latent Class Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 04018033.	1.3	11
29	Dynamic Public Perceptions of Water Infrastructure in US Shrinking Cities: End-User Trust in Providers and Views toward Participatory Processes. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	11
30	Temporal Dynamics of Willingness to Pay for Alternatives That Increase the Reliability of Water and Wastewater Service. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, 04019041.	2.0	9
31	Resilient Water and Wastewater Infrastructure Systems through Integrated Humanitarian-Development Processes: The Case of Lebanonâ€™s Protracted Refugee Crisis. <i>Environmental Science & Technology</i> , 2021, 55, 6407-6420.	4.6	9
32	Evaluating the Feasibility of Decommissioning Residential Water Infrastructure in Cities Facing Urban Decline. , 2014, , .		8
33	Infrastructure epistemologies: water, wastewater and displaced persons in Germany. <i>Construction Management and Economics</i> , 2018, 36, 521-534.	1.8	8
34	Policy driven water sector and energy dependencies in Texas border colonias. <i>Sustainable Cities and Society</i> , 2019, 48, 101568.	5.1	8
35	Evaluating the Role of Infrastructure Components and Demographics on Social Capital in Refugee Camps. <i>Journal of Management in Engineering - ASCE</i> , 2020, 36, .	2.6	8
36	Shelter shopping: Where the built environment and social systems meet. <i>International Journal of Disaster Risk Reduction</i> , 2021, 58, 102161.	1.8	8

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37	Agent-Based Model of Hosting Communitiesâ€™ Perceptions of Water and Wastewater Infrastructure during the German Refugee Crisis. <i>Journal of Management in Engineering - ASCE</i> , 2021, 37, .	2.6	8
38	Impact Assessment of Stormwater Alternatives on Generated Runoff in Cities Experiencing Urban Decline. <i>Procedia Engineering</i> , 2016, 145, 540-547.	1.2	7
39	Socioeconomic characteristics versus density changes: the operational effects of population dynamics on water systems. <i>Sustainable and Resilient Infrastructure</i> , 2023, 8, 3-16.	1.7	7
40	Understanding hosting communities as a stakeholder in the provision of water and wastewater services to displaced persons. <i>Sustainable Cities and Society</i> , 2020, 57, 102114.	5.1	6
41	Regulatory Enforcement Approaches for Mass Population Displacement. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	2.0	6
42	Stakeholder Legitimization of the Provision of Emergency Centralized Accommodations to Displaced Persons. <i>Sustainability</i> , 2020, 12, 284.	1.6	6
43	Empirical Assessment of Unobserved Heterogeneity and Polyvinyl Chloride Pipe Failures in Water Distribution Systems. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	1.0	5
44	Legitimization of the Inclusion of Cultural Practices in the Planning of Water and Sanitation Services for Displaced Persons. <i>Water (Switzerland)</i> , 2019, 11, 359.	1.2	5
45	BIM-Based Estimation of Wood Waste Stream: The Case of an Institutional Building Project. , 2019, , .		4
46	Consider How Social Distancing Policies Can Affect Drinking Water Infrastructure Performance. <i>Journal - American Water Works Association</i> , 2021, 113, 74-77.	0.2	4
47	Individual responsibility towards providing water and wastewater public goods for displaced persons: How much and how long is the public willing to pay?. <i>Sustainable Cities and Society</i> , 2021, 68, 102785.	5.1	4
48	Leveraging water-wastewater data interdependencies to understand infrastructure systemsâ€™ behaviors during COVID-19 pandemic. <i>Journal of Cleaner Production</i> , 2022, 367, 132962.	4.6	4
49	Permanent versus Temporary Infrastructure Solutions: Hosting Communitiesâ€™ Perceptions toward Methods of Provision of Water Services to Displaced Persons in Germany. , 2018, , .		3
50	Identity of Engineering Expertise: Implicitly Biased and Sustaining the Gender Gap. <i>Journal of Civil Engineering Education</i> , 2021, 147, .	0.8	3
51	Determining Multilevel Drivers of Perceiving Undesirable Taste and Odor in Tap Water: Joint Modeling Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	3
52	A Decision-Making Framework for Participatory Planning: Providing Water Infrastructure Services to Displaced Persons. , 2020, , .		3
53	Breaking Out from Food Desert Boundaries: Using Travel Behavior and Location-Choice Modeling to Measure Food Accessibility. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2022, 148, .	0.8	3
54	Humanitarian-Development Nexus Regarding Water and Wastewater Service Provision: Learning from Lebanonâ€™s Protracted Population Displacement. , 2020, , .		2

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55	Systems Vary, Affordability Should Not: Trends of Water Sector Affordability Based on City Attributes. , 2020, , .		2
56	Exploring the connection between transdisciplinary co-production and urban sustainability solutions: a case study at an urban stream management symposium. Urban Ecosystems, 2022, 25, 1207-1216.	1.1	2
57	Housing Regulations in Temporary Accommodations for Displaced Persons: A German Case Study. , 2018, , .		1
58	Modeling Food Desert Disruptors: Impact of Public Transit Systems on Food Access. , 2018, , .		1
59	Exploring a Quantitative and Qualitative Mixed Approach for Estimating Preliminary Engineering Efforts of Bridge Replacement Projects. Transportation Research Record, 2020, 2674, 13-22.	1.0	1
60	Modeling Public Support for Utility Expansions in Displacement Situations. Journal of Construction Engineering and Management - ASCE, 2021, 147, 04021039.	2.0	1
61	Statistical analysis of public perceptions of water infrastructure sustainability in shrinking cities. , 0, .		1
62	Conceptualizing a Theory of Ethical Behavior in Engineering. , 0, , .		1
63	Modeling in the COVID-19 Pandemic: Overcoming the Water Sector's Data Struggles to Realize the Potential of Hydraulic Models. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	1
64	Mapping the Data Needs and Challenges of Hydraulic Model Development during a Crisis. , 2022, , .		1
65	Quantifying the Impact of Population Dynamics on the Structural Robustness of Water Infrastructure Using a Structural Hole Influence Matrix Approach. ACS ES&T Water, 0, , .	2.3	1
66	Dynamic Modeling of Coupled Human and Water Sector Infrastructure Interdependencies in Shrinking Cities. , 2016, , .		0
67	Modeling of Public Perceptions towards Improved Water System Level of Service Arising from Infrastructure Alternatives in U.S. Shrinking Cities. , 2018, , .		0
68	Regulatory exemptions illustrate the humanitarian-development nexus in highly developed cities. International Journal of Disaster Risk Reduction, 2021, 61, 102309.	1.8	0
69	A framework for determining energy use in rural food delivery services: capturing system interdependencies through an agent-based discrete-event approach. Environmental Research: Infrastructure and Sustainability, 0, , .	0.9	0
70	Connecting Pre-Existing Characteristics of Water Utilities to Impacts during the COVID-19 Pandemic. , 2022, , .		0
71	A Framework to Measure the Cost of Controversy Surrounding Energy Construction Projects. , 2022, , .		0
72	Using Wastewater Flow to Understand Water System's Demand Behavior during the COVID-19 Pandemic in an Urban Metropolitan City in Texas. , 2022, , .		0

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73	Water Utilities and the COVID-19 Pandemic: A Review of Pandemic-Related Research. , 2022, , .		0
74	Water Demand and Human Behavior during Compounding Disasters: The Case of Winter Storm Uri and the COVID-19 Pandemic. , 2022, , .		0