Kasey M Faust

List of Publications by Year
in descending order

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	Socioeconomic characteristics versus density changes: the operational effects of population dynamics on water systems. Sustainable and Resilient Infrastructure, 2023, 8, 3-16.	1.7	7
2	Impacts of COVID-19 social distancing policies on water demand: A population dynamics perspective. Journal of Environmental Management, 2022, 302, 113949.	3.8	15
3	Conference demographics and footprint changed by virtual platforms. Nature Sustainability, 2022, 5, 149-156.	11.5	47
4	Connecting Pre-Existing Characteristics of Water Utilities to Impacts during the COVID-19 Pandemic. , 2022, , .		0
5	A Framework to Measure the Cost of Controversy Surrounding Energy Construction Projects. , 2022, , .		0
6	Using Wastewater Flow to Understand Water Systemâ€™s Demand Behavior during the COVID-19 Pandemic in an Urban Metropolitan City in Texas. , 2022, , .		0
7	Water Utilities and the COVID-19 Pandemic: A Review of Pandemic-Related Research. , 2022, , .		0
8	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
9	Breaking Out from Food Desert Boundaries: Using Travel Behavior and Location-Choice Modeling to Measure Food Accessibility. Journal of the Urban Planning and Development Division, ASCE, 2022, 148, .	0.8	3
10	Modeling in the COVID-19 Pandemic: Overcoming the Water Sectorâ€™s Data Struggles to Realize the Potential of Hydraulic Models. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	1
11	Effects of the COVID-19 Pandemic on Water Utility Operations and Vulnerability. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	14
12	Comparing Qualitative Analysis Techniques for Construction Engineering and Management Research: The Case of Arctic Water Infrastructure. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	14
13	Water Demand and Human Behavior during Compounding Disasters: The Case of Winter Storm Uri and the COVID-19 Pandemic. , 2022, , .		0
14	Mapping the Data Needs and Challenges of Hydraulic Model Development during a Crisis. , 2022, , .		1
15	Leveraging water-wastewater data interdependencies to understand infrastructure systemsâ€™ behaviors during COVID-19 pandemic. Journal of Cleaner Production, 2022, 367, 132962.	4.6	4
16	Identity of Engineering Expertise: Implicitly Biased and Sustaining the Gender Gap. Journal of Civil Engineering Education, 2021, 147, .	0.8	3
17	Determining Multilevel Drivers of Perceiving Undesirable Taste and Odor in Tap Water: Joint Modeling Approach. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	3
18	Consider How Social Distancing Policies Can Affect Drinking Water Infrastructure Performance. Journal - American Water Works Association, 2021, 113, 74-77.	0.2	4

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19	Resilient Water and Wastewater Infrastructure Systems through Integrated Humanitarian-Development Processes: The Case of Lebanonâ€™s Protracted Refugee Crisis. Environmental Science & Technology, 2021, 55, 6407-6420.	4.6	9
20	Path towards community resilience: Examining stakeholdersâ€™ coordination at the intersection of the built, natural, and social systems. Sustainable Cities and Society, 2021, 68, 102774.	5.1	19
21	Individual responsibility towards providing water and wastewater public goods for displaced persons: How much and how long is the public willing to pay?. Sustainable Cities and Society, 2021, 68, 102785.	5.1	4
22	Shelter shopping: Where the built environment and social systems meet. International Journal of Disaster Risk Reduction, 2021, 58, 102161.	1.8	8
23	Water and Wastewater Systems and Utilities: Challenges and Opportunities during the COVID-19 Pandemic. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	31
24	Modeling Public Support for Utility Expansions in Displacement Situations. Journal of Construction Engineering and Management - ASCE, 2021, 147, 04021039.	2.0	1
25	Agent-Based Model of Hosting Communitiesâ€™ Perceptions of Water and Wastewater Infrastructure during the German Refugee Crisis. Journal of Management in Engineering - ASCE, 2021, 37, .	2.6	8
26	Toward Operationalizing Equity in Water Infrastructure Services: Developing a Definition of Water Equity. ACS ES&T Water, 2021, 1, 1849-1858.	2.3	14
27	Regulatory exemptions illustrate the humanitarian-development nexus in highly developed cities. International Journal of Disaster Risk Reduction, 2021, 61, 102309.	1.8	0
28	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. ACS ES&T Water, 2021, 1, 888-899.	2.3	46
29	Humanâ€“Infrastructure Interactions during the COVID-19 Pandemic: Understanding Water and Electricity Demand Profiles at the Building Level. ACS ES&T Water, 2021, 1, 2327-2338.	2.3	14
30	Modeling complex human systems: An adaptable framework of urban food deserts. Sustainable Cities and Society, 2020, 52, 101795.	5.1	17
31	Cascading system impacts of the 2018 Camp Fire in California: The interdependent provision of infrastructure services to displaced populations. International Journal of Disaster Risk Reduction, 2020, 50, 101822.	1.8	34
32	4D-BIM to enhance construction waste reuse and recycle planning: Case studies on concrete and drywall waste streams. Waste Management, 2020, 116, 79-90.	3.7	79
33	Understanding hosting communities as a stakeholder in the provision of water and wastewater services to displaced persons. Sustainable Cities and Society, 2020, 57, 102114.	5.1	6
34	Perceptions versus reality: Assessing residential water conservation efforts in the household. Resources, Conservation and Recycling, 2020, 162, 105020.	5.3	12
35	Subjective versus objective energy burden: A look at drivers of different metrics and regional variation of energy poor populations. Energy Policy, 2020, 144, 111616.	4.2	25
36	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

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37	Regulatory Enforcement Approaches for Mass Population Displacement. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	6
38	Evaluating the Role of Infrastructure Components and Demographics on Social Capital in Refugee Camps. Journal of Management in Engineering - ASCE, 2020, 36, .	2.6	8
39	A Decision-Making Framework for Participatory Planning: Providing Water Infrastructure Services to Displaced Persons. , 2020, , .		3
40	Humanitarian-Development Nexus Regarding Water and Wastewater Service Provision: Learning from Lebanonâ€™s Protracted Population Displacement. , 2020, , .		2
41	Stakeholder Legitimization of the Provision of Emergency Centralized Accommodations to Displaced Persons. Sustainability, 2020, 12, 284.	1.6	6
42	Prevalence of Intestinal Parasites in a Low-Income Texas Community. American Journal of Tropical Medicine and Hygiene, 2020, 102, 1386-1395.	0.6	25
43	Systems Vary, Affordability Should Not: Trends of Water Sector Affordability Based on City Attributes. , 2020, , .		2
44	BIM-Based Estimation of Wood Waste Stream: The Case of an Institutional Building Project. , 2019, , .		4
45	Dynamic Public Perceptions of Water Infrastructure in US Shrinking Cities: End-User Trust in Providers and Views toward Participatory Processes. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	11
46	Humanâ€“Water Infrastructure Interactions: Substituting Services Received for Bottled and Filtered Water in US Shrinking Cities. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	15
47	Temporal Dynamics of Willingness to Pay for Alternatives That Increase the Reliability of Water and Wastewater Service. Journal of Construction Engineering and Management - ASCE, 2019, 145, 04019041.	2.0	9
48	Seven-dimensional automated construction waste quantification and management framework: Integration with project and site planning. Resources, Conservation and Recycling, 2019, 146, 462-474.	5.3	45
49	Public perceptions from hosting communities: The impact of displaced persons on critical infrastructure. Sustainable Cities and Society, 2019, 48, 101508.	5.1	20
50	Policy driven water sector and energy dependencies in Texas border colonias. Sustainable Cities and Society, 2019, 48, 101568.	5.1	8
51	BIM-based automated construction waste estimation algorithms: The case of concrete and drywall waste streams. Waste Management, 2019, 87, 825-832.	3.7	89
52	Legitimizing Involvement in Emergency Accommodations: Water and Wastewater Utility Perspectives. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	14
53	Construction waste generation estimates of institutional building projects: Leveraging waste hauling tickets. Waste Management, 2019, 87, 301-312.	3.7	41
54	Legitimization of the Inclusion of Cultural Practices in the Planning of Water and Sanitation Services for Displaced Persons. Water (Switzerland), 2019, 11, 359.	1.2	5

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55	Housing Regulations in Temporary Accommodations for Displaced Persons: A German Case Study. , 2018, , .		1
56	Permanent versus Temporary Infrastructure Solutions: Hosting Communitiesâ€™ Perceptions toward Methods of Provision of Water Services to Displaced Persons in Germany. , 2018, , .		3
57	Modeling of Public Perceptions towards Improved Water System Level of Service Arising from Infrastructure Alternatives in U.S. Shrinking Cities. , 2018, , .		0
58	Modeling Food Desert Disruptors: Impact of Public Transit Systems on Food Access. , 2018, , .		1
59	Infrastructure epistemologies: water, wastewater and displaced persons in Germany. Construction Management and Economics, 2018, 36, 521-534.	1.8	8
60	Willingness to Pay for Perceived Increased Costs of Water and Wastewater Service in Shrinking US Cities: A Latent Class Approach. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 04018033.	1.3	11
61	Empirical Assessment of Unobserved Heterogeneity and Polyvinyl Chloride Pipe Failures in Water Distribution Systems. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	5
62	Building Water and Wastewater System Resilience to Disaster Migration: Utility Perspectives. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	28
63	Transitioning from a Human Right to an Infrastructure Service: Water, Wastewater, and Displaced Persons in Germany. Environmental Science & Technology, 2017, 51, 12081-12088.	4.6	12
64	Coupled Human and Water Infrastructure Systems Sector Interdependencies: Framework Evaluating the Impact of Cities Experiencing Urban Decline. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	1.3	29
65	Dynamic Modeling of Coupled Human and Water Sector Infrastructure Interdependencies in Shrinking Cities. , 2016, , .		0
66	Water and Wastewater Infrastructure Management in Shrinking Cities. Public Works Management Policy, 2016, 21, 128-156.	0.7	49
67	Impact Assessment of Stormwater Alternatives on Generated Runoff in Cities Experiencing Urban Decline. Procedia Engineering, 2016, 145, 540-547.	1.2	7
68	Statistical analysis of public perceptions of water infrastructure sustainability in shrinking cities. Urban Water Journal, 2016, 13, 618-628.	1.0	21
69	Evaluating the Feasibility of Decommissioning Residential Water Infrastructure in Cities Facing Urban Decline. , 2014, , .		8
70	Assessment of stakeholder perceptions in water infrastructure projects using system-of-systems and binary probit analyses: A case study. Journal of Environmental Management, 2013, 128, 866-876.	3.8	11
71	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
72	Statistical analysis of public perceptions of water infrastructure sustainability in shrinking cities. , 0, .		1

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73	Conceptualizing a Theory of Ethical Behavior in Engineering. , 0, , .		1
74	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