Branko Kerkez

List of Publications by Year
in descending order

36	1,269	471509 17	361022 35
papers	citations	h-index	g-index

37	37	37	1540
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wireless Sensors for Measuring Drinking Water Quality in Building Plumbing: Deployments and Insights from Continuous and Intermittent Water Supply Systems. ACS ES&T Engineering, 2022, 2, 423-433.	7.6	11
2	An Automated Toolchain for Camera-Enabled Sensing of Drinking Water Chlorine Residual. ACS ES&T Engineering, 2022, 2, 1697-1708.	7.6	4
3	Stationary and portable multipollutant monitors for high-spatiotemporal-resolution air quality studies including online calibration. Atmospheric Measurement Techniques, 2021, 14, 995-1013.	3.1	16
4	Observabilityâ€Based Sensor Placement Improves Contaminant Tracing in River Networks. Water Resources Research, 2021, 57, e2020WR029551.	4.2	7
5	Pipedream: An interactive digital twin model for natural and urban drainage systems. Environmental Modelling and Software, 2021, 144, 105120.	4.5	41
6	StormReactor: An open-source Python package for the integrated modeling of urban water quality and water balance. Environmental Modelling and Software, 2021, 145, 105175.	4.5	6
7	Extracting useful signals from flawed sensor data: Developing hybrid data-driven approaches with physical factors. Water Research, 2020, 185, 116282.	11.3	6
8	Balancing water quality and flows in combined sewer systems using real-time control. Environmental Science: Water Research and Technology, 2020, 6, 1357-1369.	2.4	14
9	Deep reinforcement learning for the real time control of stormwater systems. Advances in Water Resources, 2020, 140, 103600.	3.8	61
10	Windshield wipers on connected vehicles produce high-accuracy rainfall maps. Scientific Reports, 2019, 9, 170.	3.3	20
11	High-resolution hydrologic forecasting for very large urban areas. Journal of Hydroinformatics, 2019, 21, 441-454.	2.4	11
12	Hydrograph peak-shaving using a graph-theoretic algorithm for placement of hydraulic control structures. Advances in Water Resources, 2019, 127, 167-179.	3.8	11
13	Real time control schemes for improving water quality from bioretention cells. Blue-Green Systems, 2019, 1, 55-71.	2.0	28
14	Detroit River phosphorus loads: Anatomy of a binational watershed. Journal of Great Lakes Research, 2019, 45, 1150-1161.	1.9	12
15	Urban total phosphorus loads to the St. Clair-Detroit River System. Journal of Great Lakes Research, 2019, 45, 1142-1149.	1.9	12
16	Field and Laboratory Evaluations of the Low-Cost Plantower Particulate Matter Sensor. Environmental Science & Technology, 2019, 53, 838-849.	10.0	143
17	Open storm: a complete framework for sensing and control of urban watersheds. Environmental Science: Water Research and Technology, 2018, 4, 346-358.	2.4	57
18	Awa: Using water distribution systems to transmit data. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3219.	3.9	14

#	Article	IF	Citations
19	Shaping Streamflow Using a Real-Time Stormwater Control Network. Sensors, 2018, 18, 2259.	3.8	25
20	Realâ€Time Control of Urban Headwater Catchments Through Linear Feedback: Performance, Analysis, and Site Selection. Water Resources Research, 2018, 54, 7309-7330.	4.2	48
21	Are all data useful? Inferring causality to predict flows across sewer and drainage systems using directed information and boosted regression trees. Water Research, 2018, 145, 697-706.	11.3	17
22	Using Sensor Data to Dynamically Map Largeâ€Scale Models to Siteâ€Scale Forecasts: A Case Study Using the National Water Model. Water Resources Research, 2018, 54, 5636-5653.	4.2	4
23	Big S hip D ata: Using vessel measurements to improve estimates of temperature and wind speed on the G reat L akes. Water Resources Research, 2017, 53, 3662-3679.	4.2	4
24	An automated toolchain for the data-driven and dynamical modeling of combined sewer systems. Water Research, 2017, 126, 88-100.	11.3	21
25	Distance-Penalized Active Learning Using Quantile Search. IEEE Transactions on Signal Processing, 2017, 65, 5453-5465.	5.3	6
26	Emerging investigators series: building a theory for smart stormwater systems. Environmental Science: Water Research and Technology, 2017, 3, 66-77.	2.4	44
27	Adaptive measurements of urban runoff quality. Water Resources Research, 2016, 52, 8986-9000.	4.2	19
28	Real-time environmental sensor data: An application to water quality using web services. Environmental Modelling and Software, 2016, 84, 505-517.	4.5	88
29	Cloud Hosted Realâ€time Data Services for the Geosciences (CHORDS). Geoscience Data Journal, 2016, 3, 4-8.	4.4	12
30	Smarter Stormwater Systems. Environmental Science & Technology, 2016, 50, 7267-7273.	10.0	159
31	Quantile search: A distance-penalized active learning algorithm for spatial sampling. , 2015, , .		3
32	Sensing and Cyberinfrastructure for Smarter Water Management: The Promise and Challenge of Ubiquity. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	25
33	Sensor placement strategies for snow water equivalent (SWE) estimation in the American River basin. Water Resources Research, 2013, 49, 891-903.	4.2	18
34	TDMA-Based Dual-Mode Communication for Mobile Wireless Sensor Networks. Sensors, 2012, 12, 16194-16210.	3.8	7
35	OpenWSN: a standardsâ€based lowâ€power wireless development environment. Transactions on Emerging Telecommunications Technologies, 2012, 23, 480-493.	3.9	228
36	Design and performance of a wireless sensor network for catchmentâ€scale snow and soil moisture measurements. Water Resources Research, 2012, 48, .	4.2	67