

# Jörg Rieckermann

## List of Publications by Year in descending order

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49  
papers

2,343  
citations

218381

26  
h-index

214527

47  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precipitation Estimates From Commercial Microwave Links: Practical Approaches to Wet-Antenna Correction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-9.	2.7	10
2	A year of attenuation data from a commercial dual-polarized duplex microwave link with concurrent disdrometer, rain gauge, and weather observations. <i>Earth System Science Data</i> , 2021, 13, 4219-4240.	3.7	8
3	A distributed heat transfer model for thermal-hydraulic analyses in sewer networks. <i>Water Research</i> , 2021, 204, 117649.	5.3	8
4	Principal component analysis and sparse polynomial chaos expansions for global sensitivity analysis and model calibration: Application to urban drainage simulation. <i>Reliability Engineering and System Safety</i> , 2020, 195, 106737.	5.1	45
5	Accounting for erroneous model structures in biokinetic process models. <i>Reliability Engineering and System Safety</i> , 2020, 203, 107075.	5.1	3
6	Commercial microwave links for urban drainage modelling: The effect of link characteristics and their position on runoff simulations. <i>Journal of Environmental Management</i> , 2019, 251, 109522.	3.8	16
7	How Urban Storm- and Wastewater Management Prepares for Emerging Opportunities and Threats: Digital Transformation, Ubiquitous Sensing, New Data Sources, and Beyondâ€”A Horizon Scan. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8488-8498.	4.6	39
8	Exploring a copula-based alternative to additive error modelsâ€”for non-negative and autocorrelated time series in hydrology. <i>Journal of Hydrology</i> , 2019, 575, 1031-1040.	2.3	7
9	Identifying the best locations to install flow control devices in sewer networks to enable in-sewer storage. <i>Journal of Hydrology</i> , 2018, 556, 371-383.	2.3	22
10	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. <i>Reviews of Geophysics</i> , 2018, 56, 698-740.	9.0	90
11	Accelerating Bayesian inference in hydrological modeling with a mechanistic emulator. <i>Environmental Modelling and Software</i> , 2018, 109, 66-79.	1.9	9
12	Sewer Inlet Localization in UAV Image Clouds: Improving Performance with Multiview Detection. <i>Remote Sensing</i> , 2018, 10, 706.	1.8	15
13	Appraisal of data-driven and mechanistic emulators of nonlinear simulators: The case of hydrodynamic urban drainage models. <i>Environmental Modelling and Software</i> , 2017, 92, 17-27.	1.9	27
14	Parameter estimation of hydrologic models using a likelihood function for censored and binary observations. <i>Water Research</i> , 2017, 121, 290-301.	5.3	29
15	Can integrative catchment management mitigate future water quality issues caused by climate change and socio-economic development?. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1593-1609.	1.9	14
16	Gauge-adjusted rainfall estimates from commercial microwave links. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 617-634.	1.9	35
17	Assessing the quality of digital elevation models obtained from mini unmanned aerial vehicles for overland flow modelling in urban areas. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1637-1653.	1.9	61
18	Describing the catchmentâ€”averaged precipitation as a stochastic process improves parameter and input estimation. <i>Water Resources Research</i> , 2016, 52, 3162-3186.	1.7	37

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19	Fast mechanism-based emulator of a slow urban hydrodynamic drainage simulator. <i>Environmental Modelling and Software</i> , 2016, 78, 54-67.	1.9	14
20	Improving Rainfall Measurement in Gauge Poor Regions Thanks to Mobile Telecommunication Networks. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES49-ES51.	1.7	51
21	High-quality observation of surface imperviousness for urban runoff modelling using UAV imagery. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4215-4228.	1.9	42
22	Adaptation in hindsight: Dynamics and drivers shaping urban wastewater systems. <i>Journal of Environmental Management</i> , 2015, 151, 404-415.	3.8	17
23	Model bias and complexity – Understanding the effects of structural deficits and input errors on runoff predictions. <i>Environmental Modelling and Software</i> , 2015, 64, 205-214.	1.9	33
24	Comparison of two stochastic techniques for reliable urban runoff prediction by modeling systematic errors. <i>Water Resources Research</i> , 2015, 51, 5004-5022.	1.7	21
25	Commercial microwave links instead of rain gauges: fiction or reality?. <i>Water Science and Technology</i> , 2015, 71, 31-37.	1.2	48
26	The value of streamflow data in improving TSS predictions – Bayesian multi-objective calibration. <i>Journal of Hydrology</i> , 2015, 530, 241-254.	2.3	30
27	Sewage-based Epidemiology Requires a Truly Transdisciplinary Approach. <i>Gaia</i> , 2014, 23, 266-268.	0.3	9
28	Challenges of surveying wastewater drug loads of small populations and generalizable aspects on optimizing monitoring design. <i>Addiction</i> , 2014, 109, 472-481.	1.7	50
29	Quantification and Modeling of Wet-Antenna Attenuation for Commercial Microwave Links. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1195-1199.	1.4	90
30	Dynamic time warping improves sewer flow monitoring. <i>Water Research</i> , 2013, 47, 3803-3816.	5.3	21
31	Quality control of rain gauge measurements using telecommunication microwave links. <i>Journal of Hydrology</i> , 2013, 492, 15-23.	2.3	32
32	Assessing the potential of using telecommunication microwave links in urban drainage modelling. <i>Water Science and Technology</i> , 2013, 68, 1810-1818.	1.2	36
33	Improving uncertainty estimation in urban hydrological modeling by statistically describing bias. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4209-4225.	1.9	82
34	Considering rating curve uncertainty in water level predictions. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4415-4427.	1.9	46
35	Using Markov switching models to infer dry and rainy periods from telecommunication microwave link signals. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1847-1859.	1.2	47
36	Assessing the performance of sewer rehabilitation on the reduction of infiltration and inflow. <i>Water Research</i> , 2012, 46, 5185-5196.	5.3	45

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37	Comparing illicit drug use in 19 European cities through sewage analysis. <i>Science of the Total Environment</i> , 2012, 432, 432-439.	3.9	416
38	Water quality-based assessment of urban drainage impacts in Europe – where do we stand today?. <i>Water Science and Technology</i> , 2012, 66, 304-313.	1.2	9
39	Bayesian uncertainty assessment of flood predictions in ungauged urban basins for conceptual rainfall-runoff models. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1221-1236.	1.9	48
40	Assessing Wastewater Micropollutant Loads with Approximate Bayesian Computations. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4399-4406.	4.6	12
41	Network condition simulator for benchmarking sewer deterioration models. <i>Water Research</i> , 2011, 45, 4983-4994.	5.3	54
42	Assessment of total uncertainty in cocaine and benzoylecgonine wastewater load measurements. <i>Water Research</i> , 2011, 45, 6650-6660.	5.3	32
43	Bayesian experimental design of tracer studies to monitor wastewater leakage from sewer networks. <i>Water Resources Research</i> , 2010, 46, .	1.7	8
44	Sampling for Pharmaceuticals and Personal Care Products (PPCPs) and Illicit Drugs in Wastewater Systems: Are Your Conclusions Valid? A Critical Review. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6024-6035.	4.6	420
45	Towards a better understanding of sewer exfiltration. <i>Water Research</i> , 2008, 42, 2385-2394.	5.3	83
46	Estimating sewer leakage from continuous tracer experiments. <i>Water Research</i> , 2007, 41, 1960-1972.	5.3	23
47	Using decision analysis to determine optimal experimental design for monitoring sewer exfiltration with tracers. <i>Water Science and Technology</i> , 2006, 54, 161-168.	1.2	4
48	Assessing the performance of international water management at Lake Titicaca. <i>Aquatic Sciences</i> , 2006, 68, 502-516.	0.6	8
49	A novel tracer method for estimating sewer exfiltration. <i>Water Resources Research</i> , 2005, 41, .	1.7	18