

# Matthew Gibbs

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/791408/publications.pdf>

Version: 2024-02-01

28  
papers

1,310  
citations

567281

15  
h-index

642732

23  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1610  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions. <i>Environmental Modelling and Software</i> , 2014, 62, 271-299.	4.5	477
2	A hybrid approach to monthly streamflow forecasting: Integrating hydrological model outputs into a Bayesian artificial neural network. <i>Journal of Hydrology</i> , 2016, 540, 623-640.	5.4	178
3	An evaluation framework for input variable selection algorithms for environmental data-driven models. <i>Environmental Modelling and Software</i> , 2014, 62, 33-51.	4.5	163
4	Investigation into the relationship between chlorine decay and water distribution parameters using data driven methods. <i>Mathematical and Computer Modelling</i> , 2006, 44, 485-498.	2.0	70
5	A genetic algorithm calibration method based on convergence due to genetic drift. <i>Information Sciences</i> , 2008, 178, 2857-2869.	6.9	44
6	Comparison of the alternative models SOURCE and SWAT for predicting catchment streamflow, sediment and nutrient loads under the effect of land use changes. <i>Science of the Total Environment</i> , 2019, 662, 254-265.	8.0	37
7	A generic framework for regression regionalization in ungauged catchments. <i>Environmental Modelling and Software</i> , 2012, 27-28, 1-14.	4.5	35
8	Framework for developing hybrid process-driven, artificial neural network and regression models for salinity prediction in river systems. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2987-3006.	4.9	33
9	Using characteristics of the optimisation problem to determine the Genetic Algorithm population size when the number of evaluations is limited. <i>Environmental Modelling and Software</i> , 2015, 69, 226-239.	4.5	30
10	State updating and calibration period selection to improve dynamic monthly streamflow forecasts for an environmental flow management application. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 871-887.	4.9	30
11	Comparison of Genetic Algorithm Parameter Setting Methods for Chlorine Injection Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 288-291.	2.6	28
12	The response of freshwater plants to salinity pulses. <i>Aquatic Botany</i> , 2010, 93, 59-67.	1.6	27
13	Relationship between problem characteristics and the optimal number of genetic algorithm generations. <i>Engineering Optimization</i> , 2011, 43, 349-376.	2.6	26
14	A simplified approach to produce probabilistic hydrological model predictions. <i>Environmental Modelling and Software</i> , 2018, 109, 306-314.	4.5	25
15	Calibration and Optimization of the Pumping and Disinfection of a Real Water Supply System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 493-501.	2.6	20
16	Putting the "river" back into the Lower River Murray: quantifying the hydraulic impact of river regulation to guide ecological restoration. <i>Transactions of the Royal Society of South Australia</i> , 2017, 141, 108-131.	0.4	14
17	An integrated model to predict and prevent hypoxia in floodplain-river systems. <i>Journal of Environmental Management</i> , 2021, 286, 112213.	7.8	10
18	Minimum Number of Generations Required for Convergence of Genetic Algorithms. , 0, , .		9

#	ARTICLE	IF	CITATIONS
19	Evaluation of parameter setting for two GIS based unit hydrograph models. Journal of Hydrology, 2010, 393, 197-205.	5.4	9
20	Linking spatial inundation indicators and hydrological modelling to improve assessment of inundation extent. Ecological Indicators, 2016, 60, 1298-1308.	6.3	9
21	Environmental Flows to Estuaries and Coastal Lagoons Shape the Salinity Gradient and Generate Suitable Fish Habitat: Predictions From the Coorong, Australia. Frontiers in Environmental Science, 2022, 10, .	3.3	7
22	Assessment of the ability to meet environmental water requirements in the Upper South East of South Australia. Stochastic Environmental Research and Risk Assessment, 2014, 28, 39-56.	4.0	5
23	Integrated science informs forest and water allocation policies in the South East of Australia. Inland Waters, 2017, 7, 358-371.	2.2	5
24	Constraining organic matter composition and dynamics as a dominant driver of hypoxic blackwater risk during river Murray floodplain inundation. Hydrological Processes, 2022, 36, .	2.6	5
25	Optimizing System Operations and Water Quality. , 2003, , 1.		4
26	Ecological condition of the Lower Lakes and Coorong. , 2021, , 95-108.		2
27	Selection of Genetic Algorithm Parameters for Water Distribution System Optimization. , 2005, , 1.		1
28	Calibration of Rainfall Runoff Models in Ungauged Catchments: Regionalization Relationships for a Rainfall Runoff Model. , 2008, , .		1