## Matthew W Farthing

List of Publications by Year in descending order

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414414 471509 1,113 35 17 32 citations h-index g-index papers 36 36 36 1171 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113561119.	7.1	136
2	Reduced Order Modeling Using Advection-Aware Autoencoders. Mathematical and Computational Applications, 2022, 27, 34.	1.3	4
3	Deep learning technique for fast inference of large-scale riverine bathymetry. Advances in Water Resources, 2021, 147, 103715.	3.8	12
4	Intrinsic finite element method for advection-diffusion-reaction equations on surfaces. Journal of Computational Physics, 2021, 424, 109827.	3.8	13
5	Application of deep learning to large scale riverine flow velocity estimation. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1069-1088.	4.0	16
6	A greedy non-intrusive reduced order model for shallow water equations. Journal of Computational Physics, 2021, 439, 110378.	3.8	13
7	pyNIROM—A suite of python modules for non-intrusive reduced order modeling of time-dependent problems. Software Impacts, 2021, 10, 100129.	1.4	4
8	Development of a Fully Convolutional Neural Network to Derive Surf-Zone Bathymetry from Close-Range Imagery of Waves in Duck, NC. Remote Sensing, 2021, 13, 4907.	4.0	8
9	Bathymetric Inversion and Uncertainty Estimation from Synthetic Surf-Zone Imagery with Machine Learning. Remote Sensing, 2020, 12, 3364.	4.0	18
10	Genetic analysis provides insights into species distribution and population structure in East Atlantic horse mackerel ( <i>Trachurus trachurus</i> and <i>T. capensis</i> ). Journal of Fish Biology, 2020, 96, 795-805.	1.6	8
11	Novel Data Assimilation Algorithm for Nearshore Bathymetry. Journal of Atmospheric and Oceanic Technology, 2019, 36, 699-715.	1.3	7
12	Riverine Bathymetry Imaging With Indirect Observations. Water Resources Research, 2018, 54, 3704-3727.	4.2	14
13	Well-Balanced Second-Order Finite Element Approximation of the Shallow Water Equations with Friction. SIAM Journal of Scientific Computing, 2018, 40, A3873-A3901.	2.8	17
14	Relative importance of geometrical and intrinsic water transport properties of active layers in the water permeability of polyamide thin-film composite membranes. Journal of Membrane Science, 2018, 564, 935-944.	8.2	21
15	Limitations of the random response technique and a call to implement the ballot box method for estimating recreational angler compliance using surveys. Fisheries Research, 2018, 208, 34-41.	1.7	21
16	Working with, not against recreational anglers: Evaluating a pro-environmental behavioural strategy for improving catch-and-release behaviour. Fisheries Research, 2018, 206, 44-56.	1.7	25
17	Evaluation of Galerkin and Petrov–Galerkin model reduction for finite element approximations of the shallow water equations. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 537-571.	6.6	9
18	Numerical Solution of Richards' Equation: A Review of Advances and Challenges. Soil Science Society of America Journal, 2017, 81, 1257-1269.	2.2	194

#	Article	IF	CITATIONS
19	POD-based model reduction for stabilized finite element approximations of shallow water flows. Journal of Computational and Applied Mathematics, 2016, 302, 50-70.	2.0	14
20	An immersed structure approach for fluid-vegetation interaction. Advances in Water Resources, 2015, 80, 1-16.	3.8	22
21	Numerical simulation of water resources problems: Models, methods, and trends. Advances in Water Resources, 2013, 51, 405-437.	3.8	73
22	Numerical modeling of drag for flow through vegetated domains and porous structures. Advances in Water Resources, 2012, 39, 44-59.	3.8	25
23	Adaptive split-operator methods for modeling transport phenomena in porous medium systems. Advances in Water Resources, 2011, 34, 1268-1282.	3.8	18
24	Editorial: Computational challenges in the solution of water resources problems. Advances in Water Resources, 2011, 34, 1059-1061.	3.8	1
25	A mixed-integer simulation-based optimization approach with surrogate functions in water resources management. Optimization and Engineering, 2008, 9, 341-360.	2.4	64
26	The influence of wettability on NAPL dissolution fingering. Advances in Water Resources, 2008, 31, 1687-1696.	3.8	25
27	Mathematical description of the uptake of hydrocarbons in jet fuel into the stratum corneum of human volunteers. Toxicology Letters, 2008, 178, 146-151.	0.8	5
28	A spatially and temporally adaptive solution of Richards' equation. Advances in Water Resources, 2006, 29, 525-545.	3.8	82
29	An ELLAM approximation for advective–dispersive transport with nonlinear sorption. Advances in Water Resources, 2006, 29, 657-675.	3.8	15
30	Solution of a Well-Field Design Problem with Implicit Filtering. Optimization and Engineering, 2004, 5, 207-234.	2.4	22
31	Mixed finite element methods and higher order temporal approximations for variably saturated groundwater flow. Advances in Water Resources, 2003, 26, 373-394.	3.8	53
32	Efficient steady-state solution techniques for variably saturated groundwater flow. Advances in Water Resources, 2003, 26, 833-849.	3.8	36
33	Modeling NAPL dissolution fingering with upscaled mass transfer rate coefficients. Advances in Water Resources, 2003, 26, 1097-1111.	3.8	25
34	Mixed finite element methods and higher-order temporal approximations. Advances in Water Resources, 2002, 25, 85-101.	3.8	29
35	A comparison of high-resolution, finite-volume, adaptive–stencil schemes for simulating advective–dispersive transport. Advances in Water Resources, 2000, 24, 29-48.	3.8	29