Francesca Pianosi

List of Publications by Year
in descending order

61 papers	4,081 citations	172207 29 h-index	161609 54 g-index
97 all docs	97 docs citations	97 times ranked	4302 citing authors

#	Article	IF	Citations
1	On the evaluation of climate change impact models. Wiley Interdisciplinary Reviews: Climate Change, 2022, 13, .	3.6	14
2	How Do Climate and Catchment Attributes Influence Flood Generating Processes? A Large‐Sample Study for 671 Catchments Across the Contiguous USA. Water Resources Research, 2021, 57, e2020WR028300.	1.7	46
3	On doing hydrology with dragons: Realizing the value of perceptual models and knowledge accumulation. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1550.	2.8	26
4	An open-source package with interactive Jupyter Notebooks to enhance the accessibility of reservoir operations simulation and optimisation. Environmental Modelling and Software, 2021, 145, 105188.	1.9	9
5	How successfully is open-source research software adopted? Results and implications of surveying the users of a sensitivity analysis toolbox. Environmental Modelling and Software, 2020, 124, 104579.	1.9	15
6	Event‐based classification for global study of river flood generating processes. Hydrological Processes, 2020, 34, 1514-1529.	1.1	80
7	Use of Reservoir Operation Optimization Methods in Practice: Insights from a Survey of Water Resource Managers. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	8
8	Technical Report—Methods: A Diagnostic Approach to Analyze the Direction of Change in Model Outputs Based on Global Variations in the Model Inputs. Water Resources Research, 2020, 56, e2020WR027153.	1.7	4
9	Sensitivity analysis of data-driven groundwater forecasts to hydroclimatic controls in irrigated croplands. Journal of Hydrology, 2020, 587, 124957.	2.3	16
10	Assessing the value of seasonal hydrological forecasts for improving water resource management: insights from a pilot application in the UK. Hydrology and Earth System Sciences, 2020, 24, 6059-6073.	1.9	15
11	Including informal housing in slope stability analysis – an application to a data-scarce location in the humid tropics. Natural Hazards and Earth System Sciences, 2020, 20, 3161-3177.	1.5	9
12	Matlab/R workflows to assess critical choices in Global Sensitivity Analysis using the SAFE toolbox. MethodsX, 2019, 6, 2258-2280.	0.7	26
13	An argument-driven classification and comparison of reservoir operation optimization methods. Advances in Water Resources, 2019, 128, 74-86.	1.7	65
14	What has Global Sensitivity Analysis ever done for us? A systematic review to support scientific advancement and to inform policy-making in earth system modelling. Earth-Science Reviews, 2019, 194, 1-18.	4.0	65
15	How Important Are Model Structural and Contextual Uncertainties when Estimating the Optimized Performance of Water Resource Systems?. Water Resources Research, 2019, 55, 2170-2193.	1.7	15
16	V2Karst V1.1: a parsimonious large-scale integrated vegetation–recharge model to simulate the impact of climate and land cover change in karst regions. Geoscientific Model Development, 2018, 11, 4933-4964.	1.3	34
17	Distribution-based sensitivity analysis from a generic input-output sample. Environmental Modelling and Software, 2018, 108, 197-207.	1.9	81
18	Comparison of variance-based and moment-independent global sensitivity analysis approaches by application to the SWAT model. Environmental Modelling and Software, 2017, 91, 210-222.	1.9	105

#	ARTICLE	IF	CITATIONS
19	A Multimethod Global Sensitivity Analysis Approach to Support the Calibration and Evaluation of Land Surface Models. , 2017, , 125-144.		2
20	An Introduction to the SAFE Matlab Toolbox With Practical Examples and Guidelines. , 2017, , 363-378.		3
21	Dealing with deep uncertainties in landslide modelling for disaster risk reduction under climate change. Natural Hazards and Earth System Sciences, 2017, 17, 225-241.	1.5	52
22	Value of longâ€term streamflow forecasts to reservoir operations for water supply in snowâ€dominated river catchments. Water Resources Research, 2016, 52, 4209-4225.	1.7	159
23	Quantifying the importance of spatial resolution and other factors through global sensitivity analysis of a flood inundation model. Water Resources Research, 2016, 52, 9146-9163.	1.7	92
24	Understanding the timeâ€varying importance of different uncertainty sources in hydrological modelling using global sensitivity analysis. Hydrological Processes, 2016, 30, 3991-4003.	1.1	68
25	Erratum for â€œOptimal Operation of the Multireservoir System in the Seine River Basin Using Deterministic and Ensemble Forecastsâ€ by A. FicchÃ¬, L. Raso, D. Dorchies, F. Pianosi, P.-O. Malaterre, P.-J. Van Overloop, and M. Jay-Allemand. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	1
26	Global Sensitivity Analysis of environmental models: Convergence and validation. Environmental Modelling and Software, 2016, 79, 135-152.	1.9	227
27	Sensitivity analysis of environmental models: A systematic review with practical workflow. Environmental Modelling and Software, 2016, 79, 214-232.	1.9	926
28	Curses, Tradeoffs, and Scalable Management: Advancing Evolutionary Multiobjective Direct Policy Search to Improve Water Reservoir Operations. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	168
29	Optimal Operation of the Multireservoir System in the Seine River Basin Using Deterministic and Ensemble Forecasts. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	54
30	Making the most of data: An information selection and assessment framework to improve water systems operations. Water Resources Research, 2015, 51, 9073-9093.	1.7	56
31	A large-scale simulation model to assess karstic groundwater recharge over Europe and the Mediterranean. Geoscientific Model Development, 2015, 8, 1729-1746.	1.3	89
32	A simple and efficient method for global sensitivity analysis based on cumulative distribution functions. Environmental Modelling and Software, 2015, 67, 1-11.	1.9	317
33	A Matlab toolbox for Global Sensitivity Analysis. Environmental Modelling and Software, 2015, 70, 80-85.	1.9	454
34	Sensitivity Analysis of Environmental Models: A Systematic Review with Practical Workflow. , 2014, , .		2
35	Trend detection in seasonal data: from hydrology to water resources. Journal of Hydrology, 2014, 511, 171-179.	2.3	46
36	Universal approximators for direct policy search in multi-purpose water reservoir management: A comparative analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6234-6239.	0.4	16

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37	Improving flow forecasting by error correction modelling in altered catchment conditions. Hydrological Processes, 2014, 28, 2524-2534.	1.1	7
38	Optimizing Watershed Management by Coordinated Operation of Storing Facilities. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 492-500.	1.3	46
39	A multiobjective reinforcement learning approach to water resources systems operation: Pareto frontier approximation in a single run. Water Resources Research, 2013, 49, 3476-3486.	1.7	77
40	Tree-based fitted Q-iteration for multi-objective Markov decision processes in water resource management. Journal of Hydroinformatics, 2013, 15, 258-270.	1.1	27
41	Identification of a flow-routing model for the Red River network. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1037-1042.	0.4	5
42	Tree-based Fitted Q-iteration for Multi-Objective Markov Decision problems. , 2012, , .		19
43	Stochastic and Robust Control of Water Resource Systems: Concepts, Methods and Applications. , 2012, , 383-401.		11
44	Dynamic modeling of predictive uncertainty by regression on absolute errors. Water Resources Research, 2012, 48, .	1.7	47
45	Valuing hydrological alteration in multi-objective water resources management. Journal of Hydrology, 2012, 472-473, 277-286.	2.3	32
46	Assessing water reservoirs management and development in Northern Vietnam. Hydrology and Earth System Sciences, 2012, 16, 189-199.	1.9	36
47	A framework for the quantitative assessment of climate change impacts on water-related activities at the basin scale. Hydrology and Earth System Sciences, 2011, 15, 2025-2038.	1.9	25
48	Artificial Neural Networks and Multi Objective Genetic Algorithms for water resources management: an application to the Hoabinh reservoir in Vietnam. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10579-10584.	0.4	19
49	Multi-objective fitted Q-iteration: Pareto frontier approximation in one single run. , 2011, , .		10
50	Assessing rainfall–runoff models for the management of Lake Verbano. Hydrological Processes, 2010, 24, 3195-3205.	1.1	21
51	ANN-based representation of parametric and residual uncertainty of models. , 2010, , .		7
52	A multiobjective response surface approach for improved water quality planning in lakes and reservoirs. Water Resources Research, 2010, 46, .	1.7	40
53	Real–time management of a multipurpose water reservoir with a heteroscedastic inflow model. Water Resources Research, 2009, 45, .	1.7	37
54	Integration, participation and optimal control in water resources planning and management. Applied Mathematics and Computation, 2008, 206, 21-33.	1.4	42

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55	Water reservoir control under economic, social and environmental constraints. Automatica, 2008, 44, 1595-1607.	3.0	168
56	Receding horizon control for water resources management. Applied Mathematics and Computation, 2008, 204, 621-631.	1.4	14
57	Flood forecasting for heteroscedastic streamflow processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14534-14539.	0.4	1
58	Extended Ritz method for reservoir management over an infinite horizon. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14546-14551.	0.4	1
59	Meta-model of an irrigation district distributed-parameter model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15523-15528.	0.4	3
60	The data-based mechanistic approach in hydrological modelling. , 2007, , 27-48.		9
61	DATA-BASED MECHANISTIC MODELLING OF A SNOW AFFECTED BASIN. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 1-6.	0.4	1