Francisco de Assis Souza Filho

List of Publications by Year
in descending order

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59 papers	901 citations	686830 13 h-index	525886 27 g-index
64 all docs	64 docs citations	64 times ranked	919 citing authors

#	Article	IF	Citations
1	A Streamflow Forecasting Framework using Multiple Climate and Hydrological Models¹. Journal of the American Water Resources Association, 2009, 45, 828-843.	1.0	156
2	Seasonal to interannual ensemble streamflow forecasts for Ceara, Brazil: Applications of a multivariate, semiparametric algorithm. Water Resources Research, 2003, 39, .	1.7	107
3	Improved water allocation utilizing probabilistic climate forecasts: Shortâ€term water contracts in a risk management framework. Water Resources Research, 2009, 45, .	1.7	70
4	Climate Downscaling over Nordeste, Brazil, Using the NCEP RSM97. Journal of Climate, 2005, 18, 551-567.	1.2	61
5	Climate, stream flow prediction and water management in northeast Brazil: societal trends and forecast value. Climatic Change, 2007, 84, 217-239.	1.7	48
6	Copula-Based Multivariate Frequency Analysis of the 2012â€“2018 Drought in Northeast Brazil. Water (Switzerland), 2020, 12, 834.	1.2	48
7	Uncertainty assessment of hydrologic and climate forecast models in Northeastern Brazil. Hydrological Processes, 2012, 26, 3875-3885.	1.1	35
8	AvaliaÃ§Ã£o de desempenho dos modelos do CMIP5 quanto Ã representaÃ§Ã£o dos padrÃµes de variaÃ§Ã£o da precipitaÃ§Ã£o no sÃ©culo XX sobre a regiÃ£o Nordeste do Brasil, AmazÃ´nia e bacia do Prata e anÃ¡lise das projeÃ§Ãµes para o cenÃ¡rio RCP8.5. Revista Brasileira De Meteorologia, 2013, 28, 317-330.	0.2	23
9	Risks and uncertainties in reservoir yield in highly variable intermittent rivers: case of the CastanhÃ£o Reservoir in semi-arid Brazil. Hydrological Sciences Journal, 2014, 59, 1184-1195.	1.2	22
10	Developing sustainable and replicable water supply systems in rural communities in Brazil. International Journal of Water Resources Development, 2013, 29, 622-635.	1.2	19
11	Forecasting the impacts of climate variability: lessons from the rainfed corn market in CearÃ¡, Brazil. Environment and Development Economics, 2008, 13, 201-227.	1.3	17
12	A Continuous Drought Probability Monitoring System, CDPMS, Based on Copulas. Water (Switzerland), 2019, 11, 1925.	1.2	17
13	Urban Water Demand Modeling Using Machine Learning Techniques: Case Study of Fortaleza, Brazil. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	15
14	Climate risk management for water in semiâ€“arid regions. Earth Perspectives -- Transdisciplinarity Enabled, 2014, 1, 12.	1.4	14
15	Use of Machine Learning in Evaluation of Drought Perception in Irrigated Agriculture: The Case of an Irrigated Perimeter in Brazil. Water (Switzerland), 2020, 12, 1546.	1.2	14
16	Role of price and enforcement in water allocation: Insights from Game Theory. Water Resources Research, 2008, 44, .	1.7	12
17	Climate changes impact estimation on urban drainage system located in low latitudes districts: a study case in Fortaleza-CE. Revista Brasileira De Recursos Hidricos, 2017, 22, .	0.5	12
18	Performance evaluation of AR5-CMIP5 models for the representation of seasonal and multi-annual variability of precipitation in Brazilian hydropower sector basins under RCP8.5 scenario. Hydrological Sciences Journal, 2019, 64, 1279-1296.	1.2	12

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19	Uncovering the influence of hydrological and climate variables in chlorophyll-A concentration in tropical reservoirs with machine learning. Environmental Science and Pollution Research, 2022, 29, 74967-74982.	2.7	10
20	Streamflow projections for the Brazilian hydropower sector from RCP scenarios. Journal of Water and Climate Change, 2017, 8, 114-126.	1.2	9
21	Drought Diagnosis: What the Medical Sciences Can Teach Us. Earth's Future, 2022, 10, .	2.4	9
22	Shift Detection in Hydrological Regimes and Pluriannual Low-Frequency Streamflow Forecasting Using the Hidden Markov Model. Water (Switzerland), 2020, 12, 2058.	1.2	8
23	Mapping abrupt streamflow shift in an abrupt climate shift through multiple change point methodologies: Brazil case study. Hydrological Sciences Journal, 2020, 65, 2783-2796.	1.2	8
24	On the Rainfall Intensityâ€“Durationâ€“Frequency Curves, Partial-Area Effect and the Rational Method: Theory and the Engineering Practice. Water (Switzerland), 2020, 12, 2730.	1.2	8
25	Variational Mode Decomposition Hybridized With Gradient Boost Regression for Seasonal Forecast of Residential Water Demand. Water Resources Management, 2021, 35, 3431-3445.	1.9	8
26	Turbulent waters in Northeast Brazil: A typology of water governance-related conflicts. Environmental Science and Policy, 2021, 126, 99-110.	2.4	8
27	Analytic Modeling of Rainwater Harvesting in the Brazilian Semiarid Northeast. Journal of the American Water Resources Association, 2016, 52, 129-137.	1.0	7
28	AvaliaÃ§Ã£o do risco da alocaÃ§Ã£o de Ã¡gua em perÃodo de escassez hÃdrica: o caso do Sistema Jaguaribe-Metropolitano. Engenharia Sanitaria E Ambiental, 2017, 22, 749-760.	0.1	7
29	AnÃ¡lise da RelaÃ§Ã£o entre a PrecipitaÃ§Ã£o MÃ©dia do ReservatÃ³rio OrÃ³s, Brasil - CearÃ¡, e os Ãndices PDO e AMO AtravÃ©s da AnÃ¡lise de Changepoints e Transformada de Ondeletas. Revista Brasileira De Meteorologia, 2019, 34, 139-149.	0.2	7
30	Deep Learning for Streamflow Regionalization for Ungauged Basins: Application of Long-Short-Term-Memory Cells in Semiarid Regions. Water (Switzerland), 2022, 14, 1318.	1.2	7
31	Performance of water policy reforms under scarcity conditions: a case study in Northeast Brazil. Water Policy, 2009, 11, 553-568.	0.7	6
32	Monthly streamflow forecast for National Interconnected System (NIS) using Periodic Auto-regressive Endogenous Models (PAR) and Exogenous (PARX) with climate information. Revista Brasileira De Recursos Hidricos, 2017, 22, .	0.5	6
33	Reservoir yield intercomparison of large dams in Jaguaribe Basin-CE in climate change scenarios. Revista Brasileira De Recursos Hidricos, 2017, 22, .	0.5	6
34	Projections of climate change in streamflow and affluent natural energy in the Brazilian hydroelectric sector of CORDEX models. Revista Brasileira De Recursos Hidricos, 0, 25, .	0.5	6
35	Proposta de gestÃ£o integrada das Ã¡guas urbanas como estratÃ©gia de promoÃ§Ã£o da seguranÃ§a hÃdrica: o caso de Fortaleza. Engenharia Sanitaria E Ambiental, 2019, 24, 239-250.	0.1	6
36	Priority of Water Allocation during Drought Periods: The Case of Jaguaribe Metropolitan Inter-Basin Water Transfer in Semiarid Brazil. Sustainability, 2022, 14, 6876.	1.6	6

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37	Forecasting Urban Water Demand Using Cellular Automata. Water (Switzerland), 2020, 12, 2038.	1.2	5
38	Uncertainty analysis in parameter regionalization for streamflow prediction in ungauged semi-arid catchments. Hydrological Sciences Journal, 0, , 1-19.	1.2	5
39	AnÃ¡lise das projeÃ§Ãµes de vazÃµes nas bacias do setor elÃ©trico brasileiro usando dados do IPCC-AR4 para o sÃ©culo XXI. Revista Brasileira De Recursos Hidricos, 2014, 19, 59-71.	0.5	5
40	STREAMFLOW FORECASTING FOR THE DAM ORÃ“S/CE FROM HYDROMETEOROLOGICAL DATA USING PERCEPTRONS. Revista Brasileira De Meteorologia, 2015, 30, 37-46.	0.2	5
41	Um estudo inter-comparativo de previsÃ£o sazonal estatÃstica-dinÃ¢mica de precipitaÃ§Ã£o no nordeste do Brasil. Revista Brasileira De Meteorologia, 2007, 22, 354-372.	0.2	4
42	Robust Strategy for Assessing the Costs of Urban Drainage System Designs under Climate Change Scenarios. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	4
43	A data-driven model to evaluate the medium-term effect of contingent pricing policies on residential water demand. Environmental Challenges, 2021, 3, 100033.	2.0	4
44	AnÃ¡lise de projeÃ§Ãµes das mudanÃ§as climÃ¡ticas sobre precipitaÃ§Ã£o e temperatura nas regiÃµes hidrogrÃ¡ficas brasileiras para o sÃ©culo XXI. Brazilian Journal of Environmental Sciences (Online), 2020, 55, 420-436.	0.1	4
45	Groundwater vulnerability to agrochemical contamination. Brazilian Journal of Environmental Sciences (Online), 2020, 55, 440-455.	0.1	4
46	Analysis of precipitation dynamics at different timescales based on entropy theory: an application to the State of CearÃ¡, Brazil. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2285-2301.	1.9	4
47	Performance of rainwater tanks for runoff reduction under climate change scenarios: a case study in Brazil. Urban Water Journal, 2020, 17, 912-922.	1.0	3
48	â€œNetworkâ€•socio-hydrology: a case study of causal factors that shape the Jaguaribe River Basin, CearÃ¡-Brazil. Hydrological Sciences Journal, 2021, 66, 935-950.	1.2	3
49	VerificaÃ§Ã£o das previsÃµes de tempo para precipitaÃ§Ã£o usando ensemble regional para o estado do CearÃ¡ em 2009. Revista Brasileira De Meteorologia, 2011, 26, 609-618.	0.2	3
50	Macroeconomic Accounting of Water Resources: An Input-Output Approach to Linkage Analysis and Impact Indicators Applied to the State of CearÃ¡, Brazil. Water (Switzerland), 2021, 13, 869.	1.2	2
51	A GLM copula approach for multisite annual streamflow generation. Journal of Hydrology, 2021, 598, 126226.	2.3	2
52	The water, climate and energy nexus in the SÃ£o Francisco River Basin, Brazil: an analysis of decadal climate variability. Hydrological Sciences Journal, 2022, 67, 1-20.	1.2	2
53	MudanÃ§as climÃ¡ticas e o setor hidroelÃ©trico brasileiro: uma anÃ¡lise com base em modelos do IPCC-AR5. Brazilian Journal of Environmental Sciences (Online), 2018, , 46-60.	0.1	2
54	PrevisÃ£o Sazonal de VazÃµes para a Bacia do OrÃ³s (CearÃ¡, Brasil) Utilizando Redes Neurais e a TÃ©cnica De Reamostragem dos K-vizinhos. Revista Brasileira De Meteorologia, 2020, 35, 197-207.	0.2	2

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55	Ãndice de vulnerabilidade Ã COVID-19: uma aplicaÃ§Ã£o para a cidade de Fortaleza (CE), Brasil. Engenharia Sanitaria E Ambiental, 2021, 26, 731-739.	0.1	1
56	Modelagem dinÃ¢mica da expansÃ£o urbana usando autÃ´matos celulares: o caso de Fortaleza-CE. Urbe, 0, 13, .	0.3	0
57	ADAPTAÃ‡ÃƒO Ã€S MUDANÃ‡AS CLIMÃ¡TICAS EM PEQUENOS HIDROSSISTEMAS: O CASO DO HIDROSSISTEMA DE CRUZETA. Irriga, 2017, 22, 369-382.	0.2	0
58	PrevisÃ£o Sazonal de VazÃµes para a Usina HidrelÃ©trica de Boa EsperanÃ§a-PI utilizando Redes Neurais Artificiais. Revista Brasileira De Geografia Fisica, 2021, 14, 2629-2645.	0.0	0
59	A Hydro-Economic Model to Support Water Scarcity. Water Economics and Policy, 0, , .	0.3	0