JosÃ© Carlos de AraÃºjo

List of Publications by Year
in descending order

70 papers	1,684 citations	218381 26 h-index	315357 38 g-index
84 all docs	84 docs citations	84 times ranked	1488 citing authors

#	Article	IF	Citations
1	Sizing Methodology of Floating Photovoltaic Plants in Dams of Semi-Arid Areas. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.1	6
2	Entropy model to assess sediment resuspension probability and trap efficiency of small dams. International Journal of Sediment Research, 2022, , .	1.8	1
3	Erosion at hillslope and microâ€basin scales in the GilbuÃ©s desertification region, Northeastern Brazil. Land Degradation and Development, 2021, 32, 1487-1499.	1.8	12
4	Temporal dynamics of evapotranspiration in semiarid native forests in Brazil and Spain using remote sensing. Hydrological Processes, 2021, 35, e14070.	1.1	4
5	DIFFERENT METHODS FOR MEASURING EVAPORATION IN A TROPICAL RESERVOIR: THE CASE OF THE GAVIÃƒO RESERVOIR IN THE STATE OF CEARÃ. Revista Caatinga, 2021, 34, 410-421.	0.3	2
6	Mapping regional surface water volume variation in reservoirs in northeastern Brazil during 2009â€“2017 using high-resolution satellite images. Science of the Total Environment, 2021, 789, 147711.	3.9	5
7	Evaporation in Brazilian dryland reservoirs: Spatial variability and impact of riparian vegetation. Science of the Total Environment, 2021, 797, 149059.	3.9	9
8	A escassez de Ã¡gua, o aÃ§ude CastanhÃ£o e o desenvolvimento no semiÃ¡rido brasileiro: os obstÃ¡culos temÃ¡ticos de uma experiÃªncia prÃ¡tica nÃ£o bem-sucedida. PrÃ¢ticas Educativas, MemÃ“rias E Oralidades, 2021, 3, e337169.	0.0	0
9	The role of unpaved roads in the sediment budget of a semiarid mesoscale catchment. Land Degradation and Development, 2021, 32, 5443-5454.	1.8	2
10	Entropy-Based Temporal Downscaling of Precipitation as Tool for Sediment Delivery Ratio Assessment. Entropy, 2021, 23, 1615.	1.1	1
11	The influence of hydroclimatic conditions and water quality on evaporation rates of a tropical lake. Journal of Hydrology, 2020, 590, 125456.	2.3	34
12	Physically based model for gully simulation: application to the Brazilian semiarid region. Hydrology and Earth System Sciences, 2020, 24, 4239-4255.	1.9	13
13	Trade-off between number of constraints and primary-statement robustness in entropy models: the case of the open-channel velocity field. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20200594.	0.3	2
14	INCREASE IN WATER-SCARCITY RISK IN A BRAZILIAN DRY-REGION RESERVOIR. Revista Caatinga, 2020, 33, 1025-1036.	0.3	1
15	Social impacts of a large-dam construction: the case of CastanhÃ£o, Brazil. Water International, 2019, 44, 871-885.	0.4	6
16	Leaf area index of Caatinga biome and its relationship with hydrological and spectral variables. Agricultural and Forest Meteorology, 2019, 279, 107705.	1.9	16
17	Simplified Method for the Assessment of Siltation in Semiarid Reservoirs Using Satellite Imagery. Water (Switzerland), 2019, 11, 998.	1.2	5
18	Unpaved rural roads as source areas of sediment in a watershed of the Brazilian semi-arid region. International Journal of Sediment Research, 2019, 34, 475-485.	1.8	15

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19	Estimation of suspended sediment concentration in an intermittent river using multi-temporal high-resolution satellite imagery. International Journal of Applied Earth Observation and Geoinformation, 2019, 79, 153-161.	1.4	16
20	Assessment of the geometry and volumes of small surface water reservoirs by remote sensing in a semi-arid region with high reservoir density. Hydrological Sciences Journal, 2019, 64, 66-79.	1.2	26
21	ESTIMATIVA E MAPEAMENTO DA EROSÃƒO BRUTA NA BACIA HIDROGRÃFICA DO RIO SERIDÃ“, BRASIL. Revista Brasileira De Geomorfologia, 2019, 20, .	0.1	3
22	CARACTERÃSTICAS FÃSICAS DE CÃPSULAS POROSAS PARA USO NA IRRIGAÃ‡ÃƒO LOCALIZADA. Irriga, 2019, 24, 861-873.	0.2	0
23	Effective water surface mapping in macrophyte-covered reservoirs in NE Brazil based on TerraSAR-X time series. International Journal of Applied Earth Observation and Geoinformation, 2018, 69, 41-55.	1.4	12
24	Hydrological Guidelines for Reservoir Operation to Enhance Water Governance: Application to the Brazilian Semiarid Region. Water (Switzerland), 2018, 10, 1628.	1.2	11
25	Estimation of van Genuchten Equation Parameters in Laboratory and through Inverse Modeling with Hydrus-1D. Journal of Agricultural Science, 2018, 10, 102.	0.1	6
26	APPLICABILITY OF FINGERPRINTING FOR IDENTIFICATION OF SEDIMENT SOURCES IN A MESOSCALE SEMIARID CATCHMENT. Engenharia Agricola, 2018, 38, 553-562.	0.2	3
27	Sub-hourly rainfall patterns by hyetograph type under distinct climate conditions in Northeast of Brazil: a comparative inference of their key properties. Revista Brasileira De Recursos Hidricos, 2018, 23, .	0.5	7
28	Modeling the Effect of Multiple Reservoirs on Water and Sediment Dynamics in a Semiarid Catchment in Brazil. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	0.8	30
29	Fossa verde como componente de saneamento rural para a regiÃ£o semiÃ¡rida do Brasil. Engenharia Sanitaria E Ambiental, 2018, 23, 801-810.	0.1	3
30	Fallow Reduces Soil Losses and Increases Carbon Stock in Caatinga. Floresta E Ambiente, 2017, 24, .	0.1	7
31	In Situ and Satellite Observation of CDOM and Chlorophyll-a Dynamics in Small Water Surface Reservoirs in the Brazilian Semiarid Region. Water (Switzerland), 2017, 9, 913.	1.2	22
32	Vulnerabilidade Ã eutrofizaÃ§Ã£o de dois lagos tropicais de climas Ãºmido (Cuba) e semiÃ¡rido (Brasil). Engenharia Sanitaria E Ambiental, 2016, 21, 415-424.	0.1	12
33	PERMANENCE OF WATER EFFECTIVENESS IN THE ROOT ZONE OF THE CAATINGA BIOME. Revista Caatinga, 2016, 29, 692-699.	0.3	6
34	Importance of soilâ€water to the Caatinga biome, Brazil. Ecohydrology, 2016, 9, 1313-1327.	1.1	22
35	Runoff initiation in a preserved semiarid Caatinga small watershed, Northeastern Brazil. Hydrological Processes, 2016, 30, 2390-2400.	1.1	40
36	Bathymetric survey of water reservoirs in north-eastern Brazil based on TanDEM-X satellite data. Science of the Total Environment, 2016, 571, 575-593.	3.9	52

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37	Soil Erosion in Steep Road Cut Slopes in Palencia (Spain). Land Degradation and Development, 2016, 27, 190-199.	1.8	38
38	A method to assess hydrological drought in semi-arid environments and its application to the Jaguaribe River basin, Brazil. Water International, 2016, 41, 213-230.	0.4	36
39	Scenarios for use of floating photovoltaic plants in Brazilian reservoirs. IET Renewable Power Generation, 2015, 9, 1019-1024.	1.7	70
40	Temporal variability of rainfall in a semiarid environment in Brazil and its effect on sediment transport processes. Journal of Soils and Sediments, 2014, 14, 1216.	1.5	29
41	Uncertainties of the 137Cs technique for validation of soil redistribution modelling in a semiarid meso-scale watershed. Engenharia Agricola, 2014, 34, 222-235.	0.2	5
42	Process-based modelling of erosion, sediment transport and reservoir siltation in mesoscale semi-arid catchments. Journal of Soils and Sediments, 2014, 14, 2001-2018.	1.5	37
43	Connectivity of sediment transport in a semiarid environment: a synthesis for the Upper Jaguaribe Basin, Brazil. Journal of Soils and Sediments, 2014, 14, 1938-1948.	1.5	31
44	Assessment of 80 years of ancientâ€badlands restoration in SaldaÃ±a, Spain. Earth Surface Processes and Landforms, 2014, 39, 1563-1575.	1.2	25
45	Relationship between hydrogeological parameters for data-scarce regions: the case of the Araripe sedimentary basin, Brazil. Environmental Earth Sciences, 2014, 71, 885-894.	1.3	5
46	Flood avalanches in a semiarid basin with a dense reservoir network. Journal of Hydrology, 2014, 512, 408-420.	2.3	33
47	Overview of the work in Latin America on erosion and sediment dynamics. Journal of Soils and Sediments, 2014, 14, 1213-1215.	1.5	2
48	The use of remote-sensing techniques to monitor dense reservoir networks in the Brazilian semiarid region. International Journal of Remote Sensing, 2014, 35, 3683-3699.	1.3	14
49	Analysis of channel transmission losses in a dryland river reach in northâ€eastern Brazil using streamflow series, groundwater level series and multiâ€temporal satellite data. Hydrological Processes, 2013, 27, 1046-1060.	1.1	45
50	Effective root depth of the Caatinga biome. Journal of Arid Environments, 2013, 89, 1-4.	1.2	47
51	Spatial behaviour of soil moisture in the root zone of the Caatinga biome. Revista Ciencia Agronomica, 2013, 44, 685-694.	0.1	16
52	Respostas hidrolÃ³gicas em pequenas bacias na regiÃ£o semiÃ¡rida em funÃ§Ã£o do uso do solo. Revista Brasileira De Engenharia Agricola E Ambiental, 2013, 17, 312-318.	0.4	13
53	Overspill avalanching in a dense reservoir network. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7191-7195.	3.3	68
54	Hydrological Impact of a High-Density Reservoir Network in Semiarid Northeastern Brazil. Journal of Hydrologic Engineering - ASCE, 2012, 17, 109-117.	0.8	80

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55	A channel transmission losses model for different dryland rivers. Hydrology and Earth System Sciences, 2012, 16, 1111-1135.	1.9	52
56	Sustainability of Small Reservoirs and Large Scale Water Availability Under Current Conditions and Climate Change. Water Resources Management, 2011, 25, 3017-3026.	1.9	66
57	Sediment redistribution due to a dense reservoir network in a large semi-arid Brazilian basin. Hydrological Sciences Journal, 2011, 56, 319-333.	1.2	65
58	Modelling spatio-temporal patterns of sediment yield and connectivity in a semi-arid catchment with the WASA-SED model. Hydrological Sciences Journal, 2010, 55, 636-648.	1.2	59
59	Comparative hydrology: analysis of a semiarid and a humid tropical watershed. Hydrological Processes, 2009, 23, 1169-1178.	1.1	62
60	Risk assessment of trihalomethanes from tap water in Fortaleza, Brazil. Environmental Monitoring and Assessment, 2009, 151, 317-325.	1.3	50
61	The impact of upstream water abstractions on reservoir yield: the case of the OrÃ³s Reservoir in Brazil. Hydrological Sciences Journal, 2008, 53, 857-867.	1.2	16
62	AvaliaÃ§Ã£o da vulnerabilidade ambiental de reservatÃ³rios Ã eutrofizaÃ§Ã£o. Engenharia Sanitaria E Ambiental, 2007, 12, 399-409.	0.1	30
63	Entropy-based equation to assess hillslope sediment production. Earth Surface Processes and Landforms, 2007, 32, 2005-2018.	1.2	20
64	Loss of reservoir volume by sediment deposition and its impact on water availability in semiarid Brazil. Hydrological Sciences Journal, 2006, 51, 157-170.	1.2	99
65	ApplicabilitÃ© des Equations de Distribution de Vitesses dans les Ecoulements en Canal Ouvert Ã fond rugueuxÂ. Houille Blanche, 2005, 91, 73-79.	0.3	12
66	Simple water balance modelling of surface reservoir systems in a large data-scarce semiarid region / ModÃ©lisation simple du bilan hydrologique de systÃ¨mes de rÃ©servoirs de surface dans une grande rÃ©gion semi-aride pauvre en donnÃ©es. Hydrological Sciences Journal, 2004, 49, .	1.2	69
67	Water Scarcity Under Scenarios for Global Climate Change and Regional Development in Semiarid Northeastern Brazil. Water International, 2004, 29, 209-220.	0.4	37
68	Sedimentation of Reservoirs in Semiarid Brazil. , 2003, , 205-216.		7
69	Assessment of Water Costs in Semiarid Brazil. , 2003, , 253-264.		0
70	Experimental Evaluation of 2-D Entropy Model for Open-Channel Flow. Journal of Hydraulic Engineering, 1998, 124, 1064-1067.	0.7	29