

JosÃ© Carlos de AraÃ±o

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3664121/publications.pdf>

Version: 2024-02-01

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	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
2	Hydrological Impact of a High-Density Reservoir Network in Semiarid Northeastern Brazil. Journal of Hydrologic Engineering - ASCE, 2012, 17, 109-117.	0.8	80
3	Scenarios for use of floating photovoltaic plants in Brazilian reservoirs. IET Renewable Power Generation, 2015, 9, 1019-1024.	1.7	70
4	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
5	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
6	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
7	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
8	Comparative hydrology: analysis of a semiarid and a humid tropical watershed. Hydrological Processes, 2009, 23, 1169-1178.	1.1	62
9	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
10	A channel transmission losses model for different dryland rivers. Hydrology and Earth System Sciences, 2012, 16, 1111-1135.	1.9	52
11	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
12	Risk assessment of trihalomethanes from tap water in Fortaleza, Brazil. Environmental Monitoring and Assessment, 2009, 151, 317-325.	1.3	50
13	Effective root depth of the Caatinga biome. Journal of Arid Environments, 2013, 89, 1-4.	1.2	47
14	Analysis of channel transmission losses in a dryland river reach in north-eastern Brazil using streamflow series, groundwater level series and multi-temporal satellite data. Hydrological Processes, 2013, 27, 1046-1060.	1.1	45
15	Runoff initiation in a preserved semiarid Caatinga small watershed, Northeastern Brazil. Hydrological Processes, 2016, 30, 2390-2400.	1.1	40
16	Soil Erosion in Steep Road Cut Slopes in Palencia (Spain). Land Degradation and Development, 2016, 27, 190-199.	1.8	38
17	Water Scarcity Under Scenarios for Global Climate Change and Regional Development in Semiarid Northeastern Brazil. Water International, 2004, 29, 209-220.	0.4	37
18	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

#	ARTICLE	IF	CITATIONS
19	A method to assess hydrological drought in semi-arid environments and its application to the Jaguaribe River basin, Brazil. <i>Water International</i> , 2016, 41, 213-230.	0.4	36
20	The influence of hydroclimatic conditions and water quality on evaporation rates of a tropical lake. <i>Journal of Hydrology</i> , 2020, 590, 125456.	2.3	34
21	Flood avalanches in a semiarid basin with a dense reservoir network. <i>Journal of Hydrology</i> , 2014, 512, 408-420.	2.3	33
22	Connectivity of sediment transport in a semiarid environment: a synthesis for the Upper Jaguaribe Basin, Brazil. <i>Journal of Soils and Sediments</i> , 2014, 14, 1938-1948.	1.5	31
23	Avaliação da vulnerabilidade ambiental de reservatórios eutrofizados. <i>Engenharia Sanitaria E Ambiental</i> , 2007, 12, 399-409.	0.1	30
24	Modeling the Effect of Multiple Reservoirs on Water and Sediment Dynamics in a Semiarid Catchment in Brazil. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, .	0.8	30
25	Experimental Evaluation of 2-D Entropy Model for Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , 1998, 124, 1064-1067.	0.7	29
26	Temporal variability of rainfall in a semiarid environment in Brazil and its effect on sediment transport processes. <i>Journal of Soils and Sediments</i> , 2014, 14, 1216.	1.5	29
27	Assessment of the geometry and volumes of small surface water reservoirs by remote sensing in a semi-arid region with high reservoir density. <i>Hydrological Sciences Journal</i> , 2019, 64, 66-79.	1.2	26
28	Assessment of 80 years of ancient badlands restoration in Saldaña, Spain. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1563-1575.	1.2	25
29	Importance of soil-water to the Caatinga biome, Brazil. <i>Ecohydrology</i> , 2016, 9, 1313-1327.	1.1	22
30	In Situ and Satellite Observation of CDOM and Chlorophyll-a Dynamics in Small Water Surface Reservoirs in the Brazilian Semiarid Region. <i>Water (Switzerland)</i> , 2017, 9, 913.	1.2	22
31	Entropy-based equation to assess hillslope sediment production. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 2005-2018.	1.2	20
32	The impact of upstream water abstractions on reservoir yield: the case of the Orós Reservoir in Brazil. <i>Hydrological Sciences Journal</i> , 2008, 53, 857-867.	1.2	16
33	Spatial behaviour of soil moisture in the root zone of the Caatinga biome. <i>Revista Ciencia Agronomica</i> , 2013, 44, 685-694.	0.1	16
34	Leaf area index of Caatinga biome and its relationship with hydrological and spectral variables. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107705.	1.9	16
35	Estimation of suspended sediment concentration in an intermittent river using multi-temporal high-resolution satellite imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 79, 153-161.	1.4	16
36	Unpaved rural roads as source areas of sediment in a watershed of the Brazilian semi-arid region. <i>International Journal of Sediment Research</i> , 2019, 34, 475-485.	1.8	15

#	ARTICLE	IF	CITATIONS
37	The use of remote-sensing techniques to monitor dense reservoir networks in the Brazilian semiarid region. <i>International Journal of Remote Sensing</i> , 2014, 35, 3683-3699.	1.3	14
38	Respostas hidrológicas em pequenas bacias na região semiárida em função do uso do solo. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , 2013, 17, 312-318.	0.4	13
39	Physically based model for gully simulation: application to the Brazilian semiarid region. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4239-4255.	1.9	13
40	Applicabilité des Equations de Distribution de Vitesses dans les Ecoulements en Canal Ouvert à fond rugueux. <i>Houille Blanche</i> , 2005, 91, 73-79.	0.3	12
41	Vulnerabilidade à eutrofização de dois lagos tropicais de climas úmido (Cuba) e semiárido (Brasil). <i>Engenharia Sanitaria E Ambiental</i> , 2016, 21, 415-424.	0.1	12
42	Effective water surface mapping in macrophyte-covered reservoirs in NE Brazil based on TerraSAR-X time series. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 69, 41-55.	1.4	12
43	Erosion at hillslope and microbasin scales in the Gilbués desertification region, Northeastern Brazil. <i>Land Degradation and Development</i> , 2021, 32, 1487-1499.	1.8	12
44	Hydrological Guidelines for Reservoir Operation to Enhance Water Governance: Application to the Brazilian Semiarid Region. <i>Water (Switzerland)</i> , 2018, 10, 1628.	1.2	11
45	Evaporation in Brazilian dryland reservoirs: Spatial variability and impact of riparian vegetation. <i>Science of the Total Environment</i> , 2021, 797, 149059.	3.9	9
46	Fallow Reduces Soil Losses and Increases Carbon Stock in Caatinga. <i>Floresta E Ambiente</i> , 2017, 24, .	0.1	7
47	Sub-hourly rainfall patterns by hyetograph type under distinct climate conditions in Northeast of Brazil: a comparative inference of their key properties. <i>Revista Brasileira De Recursos Hidricos</i> , 2018, 23, .	0.5	7
48	Sedimentation of Reservoirs in Semiarid Brazil. , 2003, , 205-216.		7
49	PERMANENCE OF WATER EFFECTIVENESS IN THE ROOT ZONE OF THE CAATINGA BIOME. <i>Revista Caatinga</i> , 2016, 29, 692-699.	0.3	6
50	Estimation of van Genuchten Equation Parameters in Laboratory and through Inverse Modeling with Hydrus-1D. <i>Journal of Agricultural Science</i> , 2018, 10, 102.	0.1	6
51	Social impacts of a large-dam construction: the case of Castanhão, Brazil. <i>Water International</i> , 2019, 44, 871-885.	0.4	6
52	Sizing Methodology of Floating Photovoltaic Plants in Dams of Semi-Arid Areas. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2022, 144, .	1.1	6
53	Uncertainties of the ¹³⁷ Cs technique for validation of soil redistribution modelling in a semiarid meso-scale watershed. <i>Engenharia Agrícola</i> , 2014, 34, 222-235.	0.2	5
54	Relationship between hydrogeological parameters for data-scarce regions: the case of the Araripe sedimentary basin, Brazil. <i>Environmental Earth Sciences</i> , 2014, 71, 885-894.	1.3	5

#	ARTICLE	IF	CITATIONS
55	Simplified Method for the Assessment of Siltation in Semiarid Reservoirs Using Satellite Imagery. Water (Switzerland), 2019, 11, 998.	1.2	5
56	Mapping regional surface water volume variation in reservoirs in northeastern Brazil during 2009–2017 using high-resolution satellite images. Science of the Total Environment, 2021, 789, 147711.	3.9	5
57	Temporal dynamics of evapotranspiration in semiarid native forests in Brazil and Spain using remote sensing. Hydrological Processes, 2021, 35, e14070.	1.1	4
58	APPLICABILITY OF FINGERPRINTING FOR IDENTIFICATION OF SEDIMENT SOURCES IN A MESOSCALE SEMIARID CATCHMENT. Engenharia Agricola, 2018, 38, 553-562.	0.2	3
59	Fossa verde como componente de saneamento rural para a região semiárida do Brasil. Engenharia Sanitaria E Ambiental, 2018, 23, 801-810.	0.1	3
60	ESTIMATIVA E MAPEAMENTO DA EROSIÃO BRUTA NA BACIA HIDROGRÁFICA DO RIO SERIDÃO, BRASIL. Revista Brasileira De Geomorfologia, 2019, 20, .	0.1	3
61	Overview of the work in Latin America on erosion and sediment dynamics. Journal of Soils and Sediments, 2014, 14, 1213-1215.	1.5	2
62	DIFFERENT METHODS FOR MEASURING EVAPORATION IN A TROPICAL RESERVOIR: THE CASE OF THE GAVIÃO RESERVOIR IN THE STATE OF CEARÁ. Revista Caatinga, 2021, 34, 410-421.	0.3	2
63	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
64	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
65	INCREASE IN WATER-SCARCITY RISK IN A BRAZILIAN DRY-REGION RESERVOIR. Revista Caatinga, 2020, 33, 1025-1036.	0.3	1
66	Entropy-Based Temporal Downscaling of Precipitation as Tool for Sediment Delivery Ratio Assessment. Entropy, 2021, 23, 1615.	1.1	1
67	Entropy model to assess sediment resuspension probability and trap efficiency of small dams. International Journal of Sediment Research, 2022, , .	1.8	1
68	A escassez de Água, o aúde Castanhão e o desenvolvimento no semiárido brasileiro: os obstáculos temáticos de uma experiência prática não bem-sucedida. Práticas Educativas, Memórias E Oralidades, 2021, 3, e337169.	0.0	0
69	Assessment of Water Costs in Semiarid Brazil. , 2003, , 253-264.		0
70	CARACTERÍSTICAS FÍSICAS DE CÁPSULAS POROSAS PARA USO NA IRRIGAÇÃO LOCALIZADA. Irriga, 2019, 24, 861-873.	0.2	0