

Joaquin Andreu

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75
papers

1,598
citations

22
h-index

38
g-index

79
ext. papers

1,784
ext. citations

4.5
avg, IF

4.63
L-index

#	Paper	IF	Citations
75	AQUATOOL, a generalized decision-support system for water-resources planning and operational management. <i>Journal of Hydrology</i> , 1996 , 177, 269-291	6	245
74	Hydro-economic Modeling in River Basin Management: Implications and Applications for the European Water Framework Directive. <i>Water Resources Management</i> , 2007 , 21, 1103-1125	3.7	138
73	Economic Optimization of Conjunctive Use of Surface Water and Groundwater at the Basin Scale. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2006 , 132, 454-467	2.8	117
72	Hydro-economic river basin modelling: The application of a holistic surface-groundwater model to assess opportunity costs of water use in Spain. <i>Ecological Economics</i> , 2008 , 66, 51-65	5.6	86
71	Design of Efficient Water Pricing Policies Integrating Basinwide Resource Opportunity Costs. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013 , 139, 583-592	2.8	52
70	Modeling Water Resources and River-Aquifer Interaction in the Júcar River Basin, Spain. <i>Water Resources Management</i> , 2014 , 28, 4337-4358	3.7	50
69	A methodology to diagnose the effect of climate change and to identify adaptive strategies to reduce its impacts in conjunctive-use systems at basin scale. <i>Journal of Hydrology</i> , 2011 , 405, 110-122	6	50
68	Water Quantity and Quality Models Applied to the Júcar River Basin, Spain. <i>Water Resources Management</i> , 2010 , 24, 2759-2779	3.7	45
67	The role of monitoring sustainable drainage systems for promoting transition towards regenerative urban built environments: a case study in the Valencian region, Spain. <i>Journal of Cleaner Production</i> , 2017 , 163, S113-S124	10.3	43
66	GIS-based models for water quantity and quality assessment in the Júcar River Basin, Spain, including climate change effects. <i>Science of the Total Environment</i> , 2012 , 440, 42-59	10.2	38
65	A regenerative urban stormwater management methodology: the journey of a Mediterranean city. <i>Journal of Cleaner Production</i> , 2015 , 109, 174-189	10.3	33
64	Using ecosystem services to represent the environment in hydro-economic models. <i>Journal of Hydrology</i> , 2016 , 538, 293-303	6	33
63	A decision support system for water quality issues in the Manzanares River (Madrid, Spain). <i>Science of the Total Environment</i> , 2010 , 408, 2576-89	10.2	32
62	Efficient Aquifer Simulation in Complex Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1987 , 113, 110-129	2.8	32
61	An efficient conceptual model to simulate surface water body-aquifer interaction in conjunctive use management models. <i>Water Resources Research</i> , 2007 , 43,	5.4	30
60	Improving value transfer through socio-economic adjustments in a multicountry choice experiment of water conservation alternatives. <i>Australian Journal of Agricultural and Resource Economics</i> , 2015 , 59, 458-478	2.4	28
59	Managing water quality under drought conditions in the Llobregat River Basin. <i>Science of the Total Environment</i> , 2015 , 503-504, 300-18	10.2	27

58	Water accounting for stressed river basins based on water resources management models. <i>Science of the Total Environment</i> , 2016 , 565, 181-190	10.2	26
57	A general methodology to simulate groundwater flow of unconfined aquifers with a reduced computational cost. <i>Journal of Hydrology</i> , 2007 , 338, 42-56	6	24
56	The Assessment of Sustainability Indexes and Climate Change Impacts on Integrated Water Resource Management. <i>Water (Switzerland)</i> , 2017 , 9, 213	3	23
55	Adapting water accounting for integrated water resource management. The Júcar Water Resource System (Spain). <i>Journal of Hydrology</i> , 2014 , 519, 3369-3385	6	23
54	Multivariate synthetic streamflow generation using a hybrid model based on artificial neural networks. <i>Hydrology and Earth System Sciences</i> , 2002 , 6, 641-654	5.5	23
53	SuDS Efficiency during the Start-Up Period under Mediterranean Climatic Conditions. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 178-186	1.6	22
52	Linking Pan-European data to the local scale for decision making for global change and water scarcity within water resources planning and management. <i>Science of the Total Environment</i> , 2017 , 603-604, 126-139	10.2	22
51	Reducing the computational cost of unconfined groundwater flow in conjunctive-use models at basin scale assuming linear behaviour: The case of Adra-Campo de Dalías. <i>Journal of Hydrology</i> , 2008 , 353, 159-174	6	22
50	Assessment of evolutionary algorithms for optimal operating rules design in real Water Resource Systems. <i>Environmental Modelling and Software</i> , 2015 , 69, 425-436	5.2	21
49	Integrating water management, habitat modelling and water quality at the basin scale and environmental flow assessment: case study of the Tormes River, Spain. <i>Hydrological Sciences Journal</i> , 2014 , 59, 878-889	3.5	20
48	Methodology for Drought Risk Assessment in Within-year Regulated Reservoir Systems. Application to the Orbigo River System (Spain). <i>Water Resources Management</i> , 2014 , 28, 3801-3814	3.7	19
47	A Model for Solving the Optimal Water Allocation Problem in River Basins with Network Flow Programming When Introducing Non-Linearities. <i>Water Resources Management</i> , 2012 , 26, 4059-4071	3.7	19
46	Drought early warning based on optimal risk forecasts in regulated river systems: Application to the Jucar River Basin (Spain). <i>Journal of Hydrology</i> , 2017 , 544, 36-45	6	18
45	Influence of Inflows Modeling on Management Simulation of Water Resources System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2007 , 133, 106-116	2.8	18
44	Assessing the effectiveness of Multi-Sector Partnerships to manage droughts: The case of the Jucar river basin. <i>Earth's Future</i> , 2017 , 5, 750-770	7.9	17
43	A two-step explicit solution of the Boussinesq equation for efficient simulation of unconfined aquifers in conjunctive-use models. <i>Water Resources Research</i> , 2006 , 42,	5.4	17
42	Development of operating rules for a complex multi-reservoir system by coupling genetic algorithms and network optimization. <i>Hydrological Sciences Journal</i> , 2013 , 58, 797-812	3.5	15
41	Improved modelling of the freshwater provisioning ecosystem service in water scarce river basins. <i>Environmental Modelling and Software</i> , 2017 , 94, 87-99	5.2	14

40	A conceptual-numerical model to simulate hydraulic head in aquifers that are hydraulically connected to surface water bodies. <i>Hydrological Processes</i> , 2012 , 26, 1435-1448	3.3	10
39	Multi-Decision-Makers Equalizer: A Multiobjective Decision Support System for Multiple Decision-Makers. <i>Annals of Operations Research</i> , 2005 , 138, 97-111	3.2	10
38	An analysis of stress-strain behaviour and wetting effects on quarried rock shells. <i>Canadian Geotechnical Journal</i> , 2005 , 42, 51-60	3.2	10
37	An impact perspective on pan-European drought sensitivity 2015 , 345-350		10
36	Skill assessment of a seasonal forecast model to predict drought events for water resource systems. <i>Journal of Hydrology</i> , 2018 , 564, 574-587	6	9
35	Drought: Research and Science-Policy Interfacing		9
34	Water Accounting in the Po River Basin Applied to Climate Change Scenarios. <i>Procedia Engineering</i> , 2016 , 162, 246-253		9
33	A Simplified Water Accounting Procedure to Assess Climate Change Impact on Water Resources for Agriculture across Different European River Basins. <i>Water (Switzerland)</i> , 2019 , 11, 1976	3	8
32	Contribution of the multi-attribute value theory to conflict resolution in groundwater management application to the Mancha Oriental groundwater system, Spain. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 1325-1337	5.5	8
31	Optimization of the Multi-Start Strategy of a Direct-Search Algorithm for the Calibration of Rainfall-Runoff Models for Water-Resource Assessment. <i>Water (Switzerland)</i> , 2019 , 11, 1876	3	7
30	Evolutionary network flow models for obtaining operation rules in multi-reservoir water systems. <i>Journal of Hydroinformatics</i> , 2014 , 16, 33-49	2.6	7
29	Drought Planning and Management in the Júcar River Basin, Spain 2013 , 237-249		7
28	Análisis de incertidumbre de las proyecciones climáticas en relación a las aportaciones históricas en la Cuenca del Júcar. <i>Ingeniería Del Agua</i> , 2020 , 24, 89	0.7	6
27	AQUATOOL: A Computer-Assisted Support System for Water Resources Research Management Including Conjunctive Use 1991 , 333-355		6
26	Hydropower generation in future climate scenarios. <i>Energy for Sustainable Development</i> , 2020 , 59, 180-189	3.4	6
25	Optimal Management of the Jucar River and Turia River Basins under Uncertain Drought Conditions. <i>Procedia Engineering</i> , 2014 , 89, 1260-1267		5
24	Risk assessment in water resources planning under climate change at the Júcar River basin. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 5297-5315	5.5	5
23	A method of assessing user capacities for effective climate services. <i>Climate Services</i> , 2020 , 19, 100180	3.8	4

22	A holistic framework to assess the sustainability of irrigated agricultural systems. <i>Cogent Food and Agriculture</i> , 2017 , 3, 1323542	1.8	4
21	Solving the steady-state groundwater flow equation for finite linear aquifers using a generalized Fourier series approach in two-dimensional domains. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 79, 179-204	2.4	3
20	Analysing hydropower production in stressed river basins within the SEEA-W approach: the Jucar River case 2018 , 49, 528-538		2
19	Treatment on non-linear boundary conditions in groundwater modeling with Eigenvalue Methods. <i>Journal of Hydrology</i> , 2009 , 368, 194-204	6	2
18	Effects of environmental flows on hydrological alteration and reliability of water demands. <i>Science of the Total Environment</i> , 2021 , 151630	10.2	2
17	Comparing performance indicators to characterize the water supply to the demands of the Guadiana River basin (Spain). <i>Hydrological Sciences Journal</i> , 2020 , 65, 1060-1074	3.5	1
16	Fostering drought research and science-policy interfacing: Achievements of the DROUGHT-R&SPI project 2015 , 3-12		1
15	Simulaci3n hidrol3gica basada en SIG: sensibilidad a factores de escala. <i>Ingenier3a Del Agua</i> , 2002 , 9, 295	0.7	1
14	Summaries and Considerations 2013 , 471-507		1
13	The Eigenvalues Approach for Solving Linear Groundwater Flow Problems 1988 , 151-164		1
12	Optimizaci3n del indicador de escasez en la cuenca del r3o J3car. <i>Ingenier3a Del Agua</i> , 2020 , 24, 129	0.7	1
11	Water Accounting for Integrated Water Resources Management. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2018 , 63-96	1.5	1
10	Integrating seasonal forecasts into real-time drought management: J3car River Basin case study. <i>International Journal of Disaster Risk Reduction</i> , 2022 , 70, 102777	4.5	0
9	Optimization and Simulation Models Applied to the Segura Water Resources System in Spain 1993 , 425-437		0
8	Improving Indicators of Hydrological Alteration in Regulated and Complex Water Resources Systems: A Case Study in the Duero River Basin. <i>Water (Switzerland)</i> , 2021 , 13, 2676	3	0
7	"Ecuilizador": un m3todo integral para la decisi3n con m3ltiples objetivos. <i>Ingenier3a Del Agua</i> , 2002 , 9, 143	0.7	
6	Opportunities of conjunctive use of groundwater and surface water 2005 , 371-383		
5	Estudio de las reglas de explotaci3n de los embalses del sistema Cantareira, Sao Paulo Brasil. <i>Ingenier3a Del Agua</i> , 2006 , 13, 129	0.7	

4 European experience with science-policy interfacing to cope with drought **2015**, 501-511

3 River water quality modelling under drought situations [The Turia River case. *Proceedings of the International Association of Hydrological Sciences*, 374, 187-192

2 Efecto del cambio climático en la calidad del agua de la Cuenca del Júcar. *Ingeniería Del Agua*, **2021**, 25, 75 0.7

1 Experiences in Proactive and Participatory Drought Planning and Management in the Jucar River Basin, Spain **2018**, 217-237