

P Amparo LÃ³pez-JimÃ©nez

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

1,446
citations

430754

18
h-index

395590

33
g-index

85
all docs

85
docs citations

85
times ranked

1273
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-energy nexus management strategy towards sustainable mobility goal in smart cities. Urban Water Journal, 2023, 20, 1406-1417.	1.0	2
2	Multi-objective optimization tool for PATs operation in water pressurized systems. Urban Water Journal, 2022, 19, 558-568.	1.0	5
3	New Challenges towards Smart Systems Efficiency by Digital Twin in Water Distribution Networks. Water (Switzerland), 2022, 14, 1304.	1.2	24
4	Improvement of the Electrical Regulation of a Microhydropower System using a Water Management Tool. Water (Switzerland), 2022, 14, 1535.	1.2	4
5	Urban growth and heat islands: A case study in micro-territories for urban sustainability. Urban Ecosystems, 2022, 25, 1379-1397.	1.1	9
6	A new optimization approach for the use of hybrid renewable systems in the search of the zero net energy consumption in water irrigation systems. Renewable Energy, 2022, 195, 853-871.	4.3	12
7	Improve leakage management to reach sustainable water supply networks through by green energy systems. Optimized case study. Sustainable Cities and Society, 2022, 83, 103994.	5.1	12
8	Analysis of incidence of air quality on human health: a case study on the relationship between pollutant concentrations and respiratory diseases in Kennedy, Bogotá. International Journal of Biometeorology, 2021, 65, 119-132.	1.3	8
9	Air quality and urban sustainable development: the application of machine learning tools. International Journal of Environmental Science and Technology, 2021, 18, 1029-1046.	1.8	10
10	Incomplete Mixing Model at Cross-Junctions in Epanet by Polynomial Equations. Water (Switzerland), 2021, 13, 453.	1.2	3
11	New Expressions to Apply the Variation Operation Strategy in Engineering Tools Using Pumps Working as Turbines. Mathematics, 2021, 9, 860.	1.1	11
12	Objectives, Keys and Results in the Water Networks to Reach the Sustainable Development Goals. Water (Switzerland), 2021, 13, 1268.	1.2	10
13	Energy Self-Sufficiency Aiming for Sustainable Wastewater Systems: Are All Options Being Explored?. Sustainability, 2021, 13, 5537.	1.6	12
14	PATs Behavior in Pressurized Irrigation Hydrants towards Sustainability. Water (Switzerland), 2021, 13, 1359.	1.2	2
15	Definition of the Operational Curves by Modification of the Affinity Laws to Improve the Simulation of PATs. Water (Switzerland), 2021, 13, 1880.	1.2	15
16	Leakage Management and Pipe System Efficiency. Its Influence in the Improvement of the Efficiency Indexes. Water (Switzerland), 2021, 13, 1909.	1.2	22
17	Analysis of Applicability of CFD Numerical Studies Applied to Problem When Pump Working as Turbine. Water (Switzerland), 2021, 13, 2134.	1.2	7
18	Transient study of series-connected pumps working as turbines in off-grid systems. Energy Conversion and Management, 2021, 245, 114586.	4.4	9

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19	Optimization tool to improve the management of the leakages and recovered energy in irrigation water systems. <i>Agricultural Water Management</i> , 2021, 258, 107223.	2.4	7
20	Hydropower Technology for Sustainable Energy Generation in Wastewater Systems: Learning from the Experience. <i>Water (Switzerland)</i> , 2021, 13, 3259.	1.2	12
21	Smart Water Management towards Future Water Sustainable Networks. <i>Water (Switzerland)</i> , 2020, 12, 58.	1.2	61
22	Applied Strategy to Characterize the Energy Improvement Using PATs in a Water Supply System. <i>Water (Switzerland)</i> , 2020, 12, 1818.	1.2	12
23	Transversal Competences in Engineering Degrees: Integrating Content and Foreign Language Teaching. <i>Education Sciences</i> , 2020, 10, 296.	1.4	6
24	Characterization of Structural Properties in High Reynolds Hydraulic Jump Based on CFD and Physical Modeling Approaches. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	18
25	Electro-Hydraulic Transient Regimes in Isolated Pumps Working as Turbines with Self-Excited Induction Generators. <i>Energies</i> , 2020, 13, 4521.	1.6	9
26	Improved Planning of Energy Recovery in Water Systems Using a New Analytic Approach to PAT Performance Curves. <i>Water (Switzerland)</i> , 2020, 12, 468.	1.2	27
27	A Front-Line and Cost-Effective Model for the Assessment of Service Life of Network Pipes. <i>Water (Switzerland)</i> , 2020, 12, 667.	1.2	2
28	Continuous Project-Based Learning in Fluid Mechanics and Hydraulic Engineering Subjects for Different Degrees. <i>Fluids</i> , 2020, 5, 95.	0.8	4
29	Using Machine Learning Tools to Classify Sustainability Levels in the Development of Urban Ecosystems. <i>Sustainability</i> , 2020, 12, 3326.	1.6	2
30	Energy recovery in wastewater treatment systems through hydraulic micro-machinery. Case study. <i>Journal of Applied Research in Technology & Engineering</i> , 2020, 1, 15.	0.4	1
31	Sustainable water-energy nexus in the optimization of the BBC golf-course using renewable energies. <i>Urban Water Journal</i> , 2019, 16, 215-224.	1.0	15
32	Optimal energy efficiency of isolated PAT systems by SEIG excitation tuning. <i>Energy Conversion and Management</i> , 2019, 183, 391-405.	4.4	17
33	Solution Approaches for the Management of the Water Resources in Irrigation Water Systems with Fuzzy Costs. <i>Water (Switzerland)</i> , 2019, 11, 2432.	1.2	8
34	Estudio numÃ©rico para la elaboraciÃ³n de mapas de inundaciÃ³n considerando la hipÃ³tesis de rotura en balsas para riego. <i>IngenierÃ­a Del Agua</i> , 2019, 23, 1.	0.2	4
35	Text Mining and Machine Learning to Identify Sustainable Development Priorities. , 2019, , .		0
36	ImplementaciÃ³n de un modelo de prediciÃ³n de fallos orientado a la gestiÃ³n y estrategias de mantenimiento en redes de distribuciÃ³n de agua potable. <i>IngenierÃ­a Del Agua</i> , 2019, 23, 247.	0.2	0

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37	Modelo analÃ­tico para el cÃ¡lculo de distribuciones de velocidad laterales en secciones tipo potencial-ley. Ribagua, 2018, 5, 29-47.	0.3	1
38	Analysis of a wastewater treatment plant using fuzzy goal programming as a management tool: A case study. Journal of Cleaner Production, 2018, 180, 20-33.	4.6	17
39	Comparison between ClÃ©ment's First Formula and Other Statistical Distributions in A Real Irrigation Network. Irrigation and Drainage, 2018, 67, 429-440.	0.8	2
40	Modified Affinity Laws in Hydraulic Machines towards the Best Efficiency Line. Water Resources Management, 2018, 32, 829-844.	1.9	20
41	Influence of VOF technique, turbulence model and discretization scheme on the numerical simulation of the non-aerated, skimming flow in stepped spillways. Journal of Hydro-Environment Research, 2018, 19, 137-149.	1.0	50
42	PATs selection towards sustainability in irrigation networks: Simulated annealing as a water management tool. Renewable Energy, 2018, 116, 234-249.	4.3	35
43	Experimental Equipment to Develop Teaching of the Concept Viscosity. Education Sciences, 2018, 8, 179.	1.4	3
44	Velocities in a Centrifugal PAT Operation: Experiments and CFD Analyses. Fluids, 2018, 3, 3.	0.8	12
45	PATs Operating in Water Networks under Unsteady Flow Conditions: Control Valve Manoeuvre and Overspeed Effect. Water (Switzerland), 2018, 10, 529.	1.2	13
46	Validation of a Computational Fluid Dynamics Model for a Novel Residence Time Distribution Analysis in Mixing at Cross-Junctions. Water (Switzerland), 2018, 10, 733.	1.2	7
47	Design strategy to maximize recovery energy towards smart water grids: case study. Urban Water Journal, 2018, 15, 329-337.	1.0	12
48	EstimaciÃ³n de las curvas caracterÃsticas de operaciÃ³n de sistemas de impulsÃ³n operando como turbinas a partir de su curva motriz trabajando como bomba. IngenierÃa Del Agua, 2018, 22, 15.	0.2	5
49	Electrical behaviour of the pump working as turbine in off grid operation. Applied Energy, 2017, 208, 302-311.	5.1	36
50	Environmental assessment of 9 European public bus transportation systems. Sustainable Cities and Society, 2017, 28, 42-52.	5.1	55
51	Energy Recovery in Existing Water Networks: Towards Greater Sustainability. Water (Switzerland), 2017, 9, 97.	1.2	106
52	Optimization Strategy for Improving the Energy Efficiency of Irrigation Systems by Micro Hydropower: Practical Application. Water (Switzerland), 2017, 9, 799.	1.2	20
53	CFD Analyses and Experiments in a PAT Modeling: Pressure Variation and System Efficiency. Fluids, 2017, 2, 51.	0.8	11
54	Urban Floods Adaptation and Sustainable Drainage Measures. Fluids, 2017, 2, 61.	0.8	15

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55	Nexo agua-energÃ­a: optimizaci3n energÃ©tica en sistemas de distribuci3n. Aplicaci3n â€”Postrasvase JÃ°car-VinalopÃ°â€™ (EspaÃ±a). <i>Tecnologia Y Ciencias Del Agua</i> , 2017, 08, 19-36.	0.1	4
56	Improvement of sustainability indicators when traditional water management changes: a case study in Alicante (Spain). <i>AIMS Environmental Science</i> , 2017, 4, 502-522.	0.7	10
57	Huella energÃ©tica del agua en funci3n de los patrones de consumo en redes de distribuci3n. <i>IngenierÃ­a Del Agua</i> , 2017, 21, 197.	0.2	4
58	Modelo experimental para estimar la viscosidad de fluidos no newtonianos: ajuste a expresiones matemÃ¡ticas convencionales.. <i>Modelling in Science Education and Learning</i> , 2017, 10, 5.	0.1	3
59	Calibrating a flow model in an irrigation network: Case study in Alicante, Spain. <i>Spanish Journal of Agricultural Research</i> , 2017, 15, e1202.	0.3	9
60	A CFD study for evaluating the effects of natural ventilation on indoor comfort conditions. <i>AIMS Environmental Science</i> , 2017, 4, 289-309.	0.7	0
61	Modeling Irrigation Networks for the Quantification of Potential Energy Recovering: A Case Study. <i>Water (Switzerland)</i> , 2016, 8, 234.	1.2	48
62	Natural Ventilation Building Design Approach in Mediterranean Regionsâ€™ A Case Study at the Valencian Coastal Regional Scale (Spain). <i>Sustainability</i> , 2016, 8, 855.	1.6	16
63	Numerical modelling of pipelines with air pockets and air valves. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 1052-1061.	0.7	28
64	Performance assessment of OpenFOAM and FLOW-3D in the numerical modeling of a low Reynolds number hydraulic jump. <i>Environmental Modelling and Software</i> , 2016, 80, 322-335.	1.9	115
65	Key Performance Indicators (KPIs) approach in buildings renovation for the sustainability of the built environment: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 906-915.	8.2	120
66	Pathogen intrusion flows in water distribution systems: according to orifice equations. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2015, 64, 857-869.	0.6	9
67	Numerical analysis of hydraulic jumps using OpenFOAM. <i>Journal of Hydroinformatics</i> , 2015, 17, 662-678.	1.1	47
68	Computational analysis of wind interactions for comparing different buildings sites in terms of natural ventilation. <i>Advances in Engineering Software</i> , 2015, 88, 73-82.	1.8	13
69	Numerical simulation of the hydrodynamics and turbulent mixing process in a drinking water storage tank. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 207-217.	0.7	10
70	Application of CFD methods to an anaerobic digester: The case of Ontinyent WWTP, Valencia, Spain. <i>Journal of Water Process Engineering</i> , 2015, 7, 131-140.	2.6	40
71	Thermal behavior analysis of different multilayer faÃ§ade: Numerical model versus experimental prototype. <i>Energy and Buildings</i> , 2014, 79, 184-190.	3.1	34
72	Iron redox battery as electrical energy storage system in the Spanish energetic framework. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 61, 421-428.	3.3	12

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73	Methodology to optimize fluid-dynamic design in a redox cell. Journal of Power Sources, 2014, 251, 243-253.	4.0	13
74	An overview of leaks and intrusion for different pipe materials and failures. Urban Water Journal, 2014, 11, 1-10.	1.0	31
75	Redox Cell Hydrodynamic Modelling: Towards Real Improved Geometry Based on CFD Analysis. Engineering Applications of Computational Fluid Mechanics, 2014, 8, 435-446.	1.5	5
76	Optimization of Retention Ponds to Improve the Drainage System Elasticity for Water-Energy Nexus. Water Resources Management, 2013, 27, 2889-2901.	1.9	16
77	Redox Cell Hydrodynamics Modelling â Simulation and Experimental Validation. Engineering Applications of Computational Fluid Mechanics, 2013, 7, 168-181.	1.5	7
78	Strategies to control odours in livestock facilities: a critical review. Spanish Journal of Agricultural Research, 2013, 11, 1004.	0.3	18
79	Intrusion and leakage in drinking systems induced by pressure variation. Journal of Water Supply: Research and Technology - AQUA, 2012, 61, 387-402.	0.6	12
80	Computational models calibration: Experiences in environmental engineering studies. Computer Applications in Engineering Education, 2011, 19, 795-805.	2.2	1
81	CuantificaciÃ³n de la eficiencia de la fachada cerÃ¡mica ventilada mediante tÃ©cnicas de la mecÃ¡nica de fluidos computacional. Boletín De La Sociedad Espanola De Ceramica Y Vidrio, 2011, 50, 99-108.	0.9	5
82	Hydraulic Analysis of Peak Demand in Looped Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 504-510.	1.3	14
83	Evaluar la competencia âInnovaciÃ³n, Creatividad y Emprendimientoâen asignaturas del Ã¡rea de la MecÃ¡nica de los Fluidos. Caso de estudio en Grado y MÃ¡ster. , 0, , .		0
84	El debate como instrumento complementario de aprendizaje en la competencia de responsabilidad Ã©tica, medioambiental y profesional.. , 0, , .		0
85	GeneraciÃ³n de energÃ­a mediante una bomba funcionando como turbina en una conducciÃ³n de abastecimiento de agua de Guanajuato. Acta Universitaria, 0, 29, 1-14.	0.2	0