

# Modesto PÃ©rez-SÃ¡nchez

## List of Publications by Year in descending order

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59  
papers

740  
citations

706676

14  
h-index

685536

24  
g-index

59  
all docs

59  
docs citations

59  
times ranked

528  
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 Systemsâ€™ 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	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
6	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
7	Incomplete Mixing Model at Cross-Junctions in Epanet by Polynomial Equations. Water (Switzerland), 2021, 13, 453.	1.2	3
8	New Expressions to Apply the Variation Operation Strategy in Engineering Tools Using Pumps Working as Turbines. Mathematics, 2021, 9, 860.	1.1	11
9	Objectives, Keys and Results in the Water Networks to Reach the Sustainable Development Goals. Water (Switzerland), 2021, 13, 1268.	1.2	10
10	Energy Self-Sufficiency Aiming for Sustainable Wastewater Systems: Are All Options Being Explored?. Sustainability, 2021, 13, 5537.	1.6	12
11	PATs Behavior in Pressurized Irrigation Hydrants towards Sustainability. Water (Switzerland), 2021, 13, 1359.	1.2	2
12	Parametric study of a horizontal axis wind turbine with similar characteristics to those of the Villonaco wind power plant. Journal of Applied Research in Technology & Engineering, 2021, 2, 51.	0.4	4
13	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
14	Leakage Management and Pipe System Efficiency. Its Influence in the Improvement of the Efficiency Indexes. Water (Switzerland), 2021, 13, 1909.	1.2	22
15	Analysis of Applicability of CFD Numerical Studies Applied to Problem When Pump Working as Turbine. Water (Switzerland), 2021, 13, 2134.	1.2	7
16	Transient study of series-connected pumps working as turbines in off-grid systems. Energy Conversion and Management, 2021, 245, 114586.	4.4	9
17	Optimization tool to improve the management of the leakages and recovered energy in irrigation water systems. Agricultural Water Management, 2021, 258, 107223.	2.4	7
18	Hydropower Technology for Sustainable Energy Generation in Wastewater Systems: Learning from the Experience. Water (Switzerland), 2021, 13, 3259.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Smart Water Management towards Future Water Sustainable Networks. <i>Water (Switzerland)</i> , 2020, 12, 58.	1.2	61
20	Applied Strategy to Characterize the Energy Improvement Using PATs in a Water Supply System. <i>Water (Switzerland)</i> , 2020, 12, 1818.	1.2	12
21	Transversal Competences in Engineering Degrees: Integrating Content and Foreign Language Teaching. <i>Education Sciences</i> , 2020, 10, 296.	1.4	6
22	Electro-Hydraulic Transient Regimes in Isolated Pumps Working as Turbines with Self-Excited Induction Generators. <i>Energies</i> , 2020, 13, 4521.	1.6	9
23	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
24	Continuous Project-Based Learning in Fluid Mechanics and Hydraulic Engineering Subjects for Different Degrees. <i>Fluids</i> , 2020, 5, 95.	0.8	4
25	Análisis de la capacidad necesaria en los procesos de tratamiento de aguas mediante programación matemática. Un caso de estudio. <i>Economía Agraria Y Recursos Naturales</i> , 2020, 20, 37.	0.1	0
26	La percepción de la innovación dentro de los Grados en Ingeniería. Estudio en la Escuela Politécnica Superior de Alcoy-UPV. <i>Modelling in Science Education and Learning</i> , 2020, 13, 5.	0.1	0
27	Energy recovery in wastewater treatment systems through hydraulic micro-machinery. Case study. <i>Journal of Applied Research in Technology &amp; Engineering</i> , 2020, 1, 15.	0.4	1
28	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
29	Optimal energy efficiency of isolated PAT systems by SEIG excitation tuning. <i>Energy Conversion and Management</i> , 2019, 183, 391-405.	4.4	17
30	Flow Conditions for PATs Operating in Parallel: Experimental and Numerical Analyses. <i>Energies</i> , 2019, 12, 901.	1.6	15
31	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
32	Estudio numérico para la elaboración de mapas de inundación considerando la hipótesis de rotura en balsas para riego. <i>Ingeniería Del Agua</i> , 2019, 23, 1.	0.2	4
33	Modelo analítico para el cálculo de distribuciones de velocidad laterales en secciones tipo potencial-ley. <i>Ribagua</i> , 2018, 5, 29-47.	0.3	1
34	Analysis of a wastewater treatment plant using fuzzy goal programming as a management tool: A case study. <i>Journal of Cleaner Production</i> , 2018, 180, 20-33.	4.6	17
35	Comparison between Clement's First Formula and Other Statistical Distributions in A Real Irrigation Network. <i>Irrigation and Drainage</i> , 2018, 67, 429-440.	0.8	2
36	Modified Affinity Laws in Hydraulic Machines towards the Best Efficiency Line. <i>Water Resources Management</i> , 2018, 32, 829-844.	1.9	20

#	ARTICLE	IF	CITATIONS
37	PATs selection towards sustainability in irrigation networks: Simulated annealing as a water management tool. <i>Renewable Energy</i> , 2018, 116, 234-249.	4.3	35
38	Experimental Equipment to Develop Teaching of the Concept Viscosity. <i>Education Sciences</i> , 2018, 8, 179.	1.4	3
39	Velocities in a Centrifugal PAT Operation: Experiments and CFD Analyses. <i>Fluids</i> , 2018, 3, 3.	0.8	12
40	PATs Operating in Water Networks under Unsteady Flow Conditions: Control Valve Manoeuvre and Overspeed Effect. <i>Water (Switzerland)</i> , 2018, 10, 529.	1.2	13
41	Design strategy to maximize recovery energy towards smart water grids: case study. <i>Urban Water Journal</i> , 2018, 15, 329-337.	1.0	12
42	Estimación de las curvas características de operación de sistemas de impulsión operando como turbinas a partir de su curva motriz trabajando como bomba. <i>Ingeniería Del Agua</i> , 2018, 22, 15.	0.2	5
43	Electrical behaviour of the pump working as turbine in off grid operation. <i>Applied Energy</i> , 2017, 208, 302-311.	5.1	36
44	Energy Recovery in Existing Water Networks: Towards Greater Sustainability. <i>Water (Switzerland)</i> , 2017, 9, 97.	1.2	106
45	Optimization Strategy for Improving the Energy Efficiency of Irrigation Systems by Micro Hydropower: Practical Application. <i>Water (Switzerland)</i> , 2017, 9, 799.	1.2	20
46	CFD Analyses and Experiments in a PAT Modeling: Pressure Variation and System Efficiency. <i>Fluids</i> , 2017, 2, 51.	0.8	11
47	Urban Floods Adaptation and Sustainable Drainage Measures. <i>Fluids</i> , 2017, 2, 61.	0.8	15
48	Nexo agua-energía: optimización energética en sistemas de distribución. Aplicación en Postravase Jácar-Vinalopó™ (España). <i>Tecnología Y Ciencias Del Agua</i> , 2017, 08, 19-36.	0.1	4
49	Mathematical Programming Model for Procurement Selection in Water Irrigation Systems. A Case Study. <i>Journal of Engineering Science and Technology Review</i> , 2017, 10, 154-162.	0.2	1
50	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
51	Huella energética del agua en función de los patrones de consumo en redes de distribución. <i>Ingeniería Del Agua</i> , 2017, 21, 197.	0.2	4
52	Modelo experimental para estimar la viscosidad de fluidos no newtonianos: ajuste a expresiones matemáticas convencionales.. <i>Modelling in Science Education and Learning</i> , 2017, 10, 5.	0.1	3
53	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
54	Laboratorio Virtual como Herramienta para Comprender el Funcionamiento de las Líneas de Alta Tensión. <i>Modelling in Science Education and Learning</i> , 2017, 10, 95.	0.1	1

#	ARTICLE	IF	CITATIONS
55	Modeling Irrigation Networks for the Quantification of Potential Energy Recovering: A Case Study. Water (Switzerland), 2016, 8, 234.	1.2	48
56	Evaluar la competencia "Innovación, Creatividad y Emprendimiento" en asignaturas del Área de la Mecánica de los Fluidos. Caso de estudio en Grado y Máster. , 0, , .		0
57	¿Puede un conjunto de tareas evaluar la competencia "Análisis y Resolución de problemas" en una asignatura de grado?. , 0, , .		0
58	El debate como instrumento complementario de aprendizaje en la competencia de responsabilidad Ética, medioambiental y profesional.. , 0, , .		0
59	Generación de energía mediante una bomba funcionando como turbina en una conducción de abastecimiento de agua de Guanajuato. Acta Universitaria, 0, 29, 1-14.	0.2	0