

# Modesto Prez-Snchez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

431  
citations

11  
h-index

19  
g-index

59  
ext. papers

537  
ext. citations

3  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
52	Energy Recovery in Existing Water Networks: Towards Greater Sustainability. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 97	3	80
51	Modeling Irrigation Networks for the Quantification of Potential Energy Recovering: A Case Study. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 234	3	37
50	Smart Water Management towards Future Water Sustainable Networks. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 58	3	36
49	Electrical behaviour of the pump working as turbine in off grid operation. <i>Applied Energy</i> , <b>2017</b> , 208, 302-311	10.7	26
48	PATs selection towards sustainability in irrigation networks: Simulated annealing as a water management tool. <i>Renewable Energy</i> , <b>2018</b> , 116, 234-249	8.1	25
47	Optimization Strategy for Improving the Energy Efficiency of Irrigation Systems by Micro Hydropower: Practical Application. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 799	3	16
46	Improved Planning of Energy Recovery in Water Systems Using a New Analytic Approach to PAT Performance Curves. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 468	3	15
45	Analysis of a wastewater treatment plant using fuzzy goal programming as a management tool: A case study. <i>Journal of Cleaner Production</i> , <b>2018</b> , 180, 20-33	10.3	14
44	Urban Floods Adaptation and Sustainable Drainage Measures. <i>Fluids</i> , <b>2017</b> , 2, 61	1.6	12
43	Optimal energy efficiency of isolated PAT systems by SEIG excitation tuning. <i>Energy Conversion and Management</i> , <b>2019</b> , 183, 391-405	10.6	11
42	Modified Affinity Laws in Hydraulic Machines towards the Best Efficiency Line. <i>Water Resources Management</i> , <b>2018</b> , 32, 829-844	3.7	11
41	PATs Operating in Water Networks under Unsteady Flow Conditions: Control Valve Manoeuvre and Overspeed Effect. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 529	3	10
40	Leakage Management and Pipe System Efficiency. Its Influence in the Improvement of the Efficiency Indexes. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1909	3	10
39	Sustainable water-energy nexus in the optimization of the BBC golf-course using renewable energies. <i>Urban Water Journal</i> , <b>2019</b> , 16, 215-224	2.3	9
38	Velocities in a Centrifugal PAT Operation: Experiments and CFD Analyses. <i>Fluids</i> , <b>2018</b> , 3, 3	1.6	9
37	Improvement of sustainability indicators when traditional water management changes: a case study in Alicante (Spain). <i>AIMS Environmental Science</i> , <b>2017</b> , 4, 502-522	1.9	8
36	Applied Strategy to Characterize the Energy Improvement Using PATs in a Water Supply System. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1818	3	8

35	Objectives, Keys and Results in the Water Networks to Reach the Sustainable Development Goals. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1268	3	8
34	Flow Conditions for PATs Operating in Parallel: Experimental and Numerical Analyses. <i>Energies</i> , <b>2019</b> , 12, 901	3.1	7
33	Design strategy to maximize recovery energy towards smart water grids: case study. <i>Urban Water Journal</i> , <b>2018</b> , 15, 329-337	2.3	7
32	Calibrating a flow model in an irrigation network: Case study in Alicante, Spain. <i>Spanish Journal of Agricultural Research</i> , <b>2017</b> , 15, e1202	1.1	7
31	Definition of the Operational Curves by Modification of the Affinity Laws to Improve the Simulation of PATs. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1880	3	7
30	Electro-Hydraulic Transient Regimes in Isolated Pumps Working as Turbines with Self-Excited Induction Generators. <i>Energies</i> , <b>2020</b> , 13, 4521	3.1	6
29	CFD Analyses and Experiments in a PAT Modeling: Pressure Variation and System Efficiency. <i>Fluids</i> , <b>2017</b> , 2, 51	1.6	6
28	Solution Approaches for the Management of the Water Resources in Irrigation Water Systems with Fuzzy Costs. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2432	3	6
27	New Expressions to Apply the Variation Operation Strategy in Engineering Tools Using Pumps Working as Turbines. <i>Mathematics</i> , <b>2021</b> , 9, 860	2.3	5
26	Estimaci3n de las curvas caracter3sticas de operaci3n de sistemas de impuls3n operando como turbinas a partir de su curva motriz trabajando como bomba. <i>Ingenier3a Del Agua</i> , <b>2018</b> , 22, 15	0.7	4
25	New Challenges towards Smart Systems Efficiency by Digital Twin in Water Distribution Networks. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1304	3	4
24	Huella energ3tica del agua en funci3n de los patrones de consumo en redes de distribuci3n. <i>Ingenier3a Del Agua</i> , <b>2017</b> , 21, 197	0.7	3
23	Energy Self-Sufficiency Aiming for Sustainable Wastewater Systems: Are All Options Being Explored?. <i>Sustainability</i> , <b>2021</b> , 13, 5537	3.6	3
22	Nexo agua-energ3a: optimizaci3n energ3tica en sistemas de distribuci3n. Aplicaci3n Postrasvase J3bar-Vinalop3 (Espa3a). <i>Tecnologia Y Ciencias Del Agua</i> , <b>2017</b> , 08, 19-36	0.9	2
21	Water-energy nexus management strategy towards sustainable mobility goal in smart cities. <i>Urban Water Journal</i> , 1-12	2.3	2
20	Parametric study of a horizontal axis wind turbine with similar characteristics to those of the Villonaco wind power plant. <i>Journal of Applied Research in Technology &amp; Engineering</i> , <b>2021</b> , 2, 51	1	2
19	Analysis of Applicability of CFD Numerical Studies Applied to Problem When Pump Working as Turbine. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2134	3	2
18	Transient study of series-connected pumps working as turbines in off-grid systems. <i>Energy Conversion and Management</i> , <b>2021</b> , 245, 114586	10.6	2

17	Continuous Project-Based Learning in Fluid Mechanics and Hydraulic Engineering Subjects for Different Degrees. <i>Fluids</i> , <b>2020</b> , 5, 95	1.6	1
16	Modelo analítico para el cálculo de distribuciones de velocidad laterales en secciones tipo potencial-ley. <i>Ribagua</i> , <b>2018</b> , 5, 29-47	0.5	1
15	Hydropower Technology for Sustainable Energy Generation in Wastewater Systems: Learning from the Experience. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 3259	3	1
14	Estudio numérico para la elaboración de mapas de inundación considerando la hipótesis de rotura en balsas para riego. <i>Ingeniería Del Agua</i> , <b>2019</b> , 23, 1	0.7	1
13	Modelo experimental para estimar la viscosidad de fluidos no newtonianos: ajuste a expresiones matemáticas convencionales.. <i>Modelling in Science Education and Learning</i> , <b>2017</b> , 10, 5	0.1	1
12	Optimization tool to improve the management of the leakages and recovered energy in irrigation water systems. <i>Agricultural Water Management</i> , <b>2021</b> , 258, 107223	5.9	1
11	Laboratorio Virtual como Herramienta para Comprender el Funcionamiento de las Líneas de Alta Tensión. <i>Modelling in Science Education and Learning</i> , <b>2017</b> , 10, 95	0.1	1
10	Transversal Competences in Engineering Degrees: Integrating Content and Foreign Language Teaching. <i>Education Sciences</i> , <b>2020</b> , 10, 296	2.2	1
9	PATs Behavior in Pressurized Irrigation Hydrants towards Sustainability. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1359	3	1
8	Comparison between Clément's First Formula and Other Statistical Distributions in A Real Irrigation Network. <i>Irrigation and Drainage</i> , <b>2018</b> , 67, 429-440	1.1	0
7	Energy recovery in wastewater treatment systems through hydraulic micro-machinery. Case study. <i>Journal of Applied Research in Technology &amp; Engineering</i> , <b>2020</b> , 1, 15	1	0
6	Incomplete Mixing Model at Cross-Junctions in Epanet by Polynomial Equations. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 453	3	0
5	Experimental Equipment to Develop Teaching of the Concept Viscosity. <i>Education Sciences</i> , <b>2018</b> , 8, 179	2.2	0
4	Multi-objective optimization tool for PATs operation in water pressurized systems. <i>Urban Water Journal</i> , 1-11	2.3	0
3	Improvement of the Electrical Regulation of a Microhydropower System using a Water Management Tool. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1535	3	0
2	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> , <b>2020</b> , 20, 37	0.9	
1	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> , <b>2020</b> , 13, 5	0.1	