Arturo S Leon

List of Publications by Year
in descending order

56 papers	952 citations	471061 17 h-index	476904 29 g-index
57 all docs	57 docs citations	57 times ranked	865 citing authors

#	Article	IF	Citations
1	Experimental Investigation on Thermal Performance of a PV/T-PCM (Photovoltaic/Thermal) System Cooling with a PCM and Nanofluid. Energies, 2019, 12, 2572.	1.6	126
2	A robust two-equation model for transient-mixed flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 44-56.	0.7	69
3	Application of Godunov-type schemes to transient mixed flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 147-156.	0.7	57
4	Godunov-Type Solutions for Transient Flows in Sewers. Journal of Hydraulic Engineering, 2006, 132, 800-813.	0.7	55
5	Efficient Second-Order Accurate Shock-Capturing Scheme for Modeling One- and Two-Phase Water Hammer Flows. Journal of Hydraulic Engineering, 2008, 134, 970-983.	0.7	42
6	The intertidal hydraulics of tide-dominated reef platforms. Journal of Geophysical Research: Oceans, 2015, 120, 4845-4868.	1.0	37
7	A Genetic Algorithm Parallel Strategy for Optimizing the Operation of Reservoir with Multiple Eco-environmental Objectives. Water Resources Management, 2016, 30, 2127-2142.	1.9	34
8	Dynamic Framework for Intelligent Control of River Flooding: Case Study. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 258-268.	1.3	33
9	Hydrologic-Hydraulic Model for Simulating Dual Drainage and Flooding in Urban Areas: Application to a Catchment in the Metropolitan Area of Chicago. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	33
10	Dimension reduction of decision variables for multireservoir operation: A spectral optimization model. Water Resources Research, 2016, 52, 36-51.	1.7	32
11	Controlling HEC-RAS using MATLAB. Environmental Modelling and Software, 2016, 84, 339-348.	1.9	31
12	Exergo-Economic Optimization of Organic Rankine Cycle for Saving of Thermal Energy in a Sample Power Plant by Using of Strength Pareto Evolutionary Algorithm II. Processes, 2020, 8, 264.	1.3	28
13	Cooling Enhancement and Stress Reduction Optimization of Disk-Shaped Electronic Components Using Nanofluids. Symmetry, 2020, 12, 931.	1.1	28
14	An Intelligent Luminance Control Method for Tunnel Lighting Based on Traffic Volume. Sustainability, 2017, 9, 2208.	1.6	27
15	Influence of Vehicle Speed on the Characteristics of Driverâ€™s Eye Movement at a Highway Tunnel Entrance during Day and Night Conditions: A Pilot Study. International Journal of Environmental Research and Public Health, 2018, 15, 656.	1.2	23
16	Impact of Size and Location of Wetlands on Watershed-Scale Flood Control. Water Resources Management, 2020, 34, 1693-1707.	1.9	23
17	An experimental study on violent geysers in vertical pipes. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 283-294.	0.7	20
18	Dynamic luminance tuning method for tunnel lighting based on data mining of real-time traffic flow. Building and Environment, 2020, 176, 106844.	3.0	17

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19	Mechanisms that lead to violent geysers in vertical shafts. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 295-306.	0.7	16
20	Assessment of Iron Oxide (III)â€“Therminol 66 Nanofluid as a Novel Working Fluid in a Convective Radiator Heating System for Buildings. Energies, 2019, 12, 4327.	1.6	16
21	A Remotely-Operated Siphon System for Water Release From Wetlands and Shallow Ponds. IEEE Access, 2019, 7, 157680-157687.	2.6	16
22	Energetic Analysis of Different Configurations of Power Plants Connected to Liquid Chemical Looping Gasification. Processes, 2019, 7, 763.	1.3	14
23	A dimensional analysis for determining optimal discharge and penstock diameter in impulse and reaction water turbines. Renewable Energy, 2014, 71, 609-615.	4.3	12
24	Numerical investigation of field-scale geysers in a vertical shaft. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 503-515.	0.7	12
25	A Deterministic Topographic Wetland Index Based on LiDAR-Derived DEM for Delineating Open-Water Wetlands. Water (Switzerland), 2021, 13, 2487.	1.2	12
26	Dynamic Management of Water Storage for Flood Control in a Wetland System: A Case Study in Texas. Water (Switzerland), 2018, 10, 325.	1.2	11
27	A MATLAB framework for forecasting optimal flow releases in a multi-storage system for flood control. Environmental Modelling and Software, 2020, 125, 104618.	1.9	11
28	Comparative Study of Energy Savings for Various Control Strategies in the Tunnel Lighting System. Applied Sciences (Switzerland), 2021, 11, 6372.	1.3	11
29	Efficient computation of unsteady flow in complex river systems with uncertain inputs. International Journal of Computer Mathematics, 2014, 91, 781-797.	1.0	10
30	Towards Smart and Green Flood Control: Remote and Optimal Operation of Control Structures in a Network of Storage Systems for Mitigating Floods. , 2019, , .		10
31	Impact of Dynamic Storage Management of Wetlands and Shallow Ponds on Watershed-scale Flood Control. Water Resources Management, 2020, 34, 1305-1318.	1.9	10
32	Three-Dimensional Numerical Modeling of Air-Water Geyser Flows. , 2014, , .		8
33	Fast Approach for Unsteady Flow Routing in Complex River Networks Based on Performance Graphs. Journal of Hydraulic Engineering, 2013, 139, 284-295.	0.7	7
34	Mathematical models for quantifying eruption velocity in degassing pipes based on exsolution of a single gas and simultaneous exsolution of multiple gases. Journal of Volcanology and Geothermal Research, 2016, 323, 72-79.	0.8	7
35	Internet-Enabled Remotely Controlled Architecture to Release Water from Storage Units. , 2021, , .		7
36	Comparison of the genetic algorithm and pattern search methods for forecasting optimal flow releases in a multi-storage system for flood control. Environmental Modelling and Software, 2021, 145, 105198.	1.9	7

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37	A Derivative-Free Hybrid Optimization Model for Short-Term Operation of a Multi-Objective Reservoir System Under Uncertainty. Water Resources Management, 2018, 32, 3707-3721.	1.9	6
38	Well-Balanced Scheme for Modeling Open-Channel and Surcharged Flows in Steep-Slope Closed Conduit Systems. Journal of Hydraulic Engineering, 2013, 139, 374-384.	0.7	4
39	New Evidence on the Causes of Explosives Geysers in Stormwater and Combined Sewer Systems: A Simplified Model for the Prediction of These Geysers. , 2016, , .		4
40	Comparison of Various Turbulence Models for Violent Geysers in Vertical Pipes. , 2018, , .		4
41	Use of Pupil Area and Fixation Maps to Evaluate Visual Behavior of Drivers inside Tunnels at Different Luminance Levelsâ€"A Pilot Study. Applied Sciences (Switzerland), 2021, 11, 5014.	1.3	4
42	A Machine Learning Framework for Overflow Prediction in Combined Sewer Systems. , 2022, , .		4
43	A Feasibility Study on Harvesting Rainwater from Large Solar Panel Canopies to Supplement Makeup Water for Cooling Towers by Using Remotely Controlled and Self-Cleaning Rain Cistern. , 2021, , .		3
44	Improved understanding of combined sewer systems using the Illinois Conveyance Analysis Program (ICAP). Urban Water Journal, 2017, 14, 811-819.	1.0	2
45	Evaluation of the PG method for modeling unsteady flows in complex bathymetries. Journal of Applied Water Engineering and Research, 2018, 6, 139-149.	1.0	1
46	Siphon Break Phenomena Associated With Pipe Leakage Location. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	1
47	Applying HEC-RAS to Simulate the Complex Tidal Conditions for Estuaries and Bays: A Case Study of the Cook Inlet in Alaska. , 2022, , .		1
48	Estimating the Potential Wetland Storage Capacity for Flood Mitigation by Using Deterministic Topographic Wetland Index. , 2022, , .		1
49	Impact of Pipe Leakage Location on Siphon Flow Breakage. , 2022, , .		1
50	An Affordable PIV Technique for Water Using Potato Starch with Diode Laser and Smartphones. , 2022, , .		1
51	A Remotely Operated Software Defined Radio Based Framework to Release Water from a Network of Storage Units. , 2022, , .		1
52	CFD Modeling of Storm Sewer Geysers in Partially Filled Dropshafts. , 2022, , .		1
53	A Remotely Operated Framework Based on Internet of Things (IoT) Technology to Release Water from Ponded Systems. , 2022, , .		1
54	Experimental and numerical modelling of symmetrical four-branch supercritical cross junction flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 826-827.	0.7	0

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55	Upper Limit Velocity of Geyser Eruptions in Stormwater and Combined Sewer Systems. , 2019, , .		0
56	A System for Resilience Learning: Developing a Community-Driven, Multi-Sector Research Approach for Greater Preparedness and Resilience to Long-Term Climate Stressors and Extreme Events in the Miami Metropolitan Region. Journal of Extreme Events, 0, , .	1.2	0