

Abdolmajid Mohammadian

List of Publications by Year in descending order

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129
papers

1,708
citations

361045

20
h-index

377514

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all docs

134
docs citations

134
times ranked

1365
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined impacts of future climate and land use changes on discharge, nitrogen and phosphorus loads for a Canadian river basin. <i>Journal of Environmental Management</i> , 2015, 151, 76-86.	3.8	148
2	A comparison of standard $k\epsilon$ and realizable $k\epsilon$ turbulence models in curved and confluent channels. <i>Environmental Fluid Mechanics</i> , 2019, 19, 543-568.	0.7	115
3	Novel methodology for facile fabrication of nanofiltration membranes based on nucleophilic nature of polydopamine. <i>Journal of Membrane Science</i> , 2016, 511, 65-75.	4.1	61
4	Uncertainty analysis of intelligent model of hybrid genetic algorithm and particle swarm optimization with ANFIS to predict threshold bank profile shape based on digital laser approach sensing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 121, 294-303.	2.5	58
5	Fabrication of high flux nanofiltration membrane via hydrogen bonding based co-deposition of polydopamine with poly(vinyl alcohol). <i>Journal of Membrane Science</i> , 2018, 552, 222-233.	4.1	53
6	Numerical modeling of 30° and 45° inclined dense turbulent jets in stationary ambient. <i>Environmental Fluid Mechanics</i> , 2015, 15, 537-562.	0.7	51
7	Biosorption of Pb and Cu using fixed and suspended bacteria. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1663-1671.	3.3	43
8	Numerical Modeling of Turbulent Buoyant Wall Jets in Stationary Ambient Water. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	0.7	38
9	CFD modeling and analysis of the behavior of 30° and 45° inclined dense jets – new numerical insights. <i>Journal of Applied Water Engineering and Research</i> , 2016, 4, 112-127.	1.0	33
10	Predicting stable alluvial channel profiles using emotional artificial neural networks. <i>Applied Soft Computing Journal</i> , 2019, 78, 420-437.	4.1	33
11	Why many theories of shock waves are necessary: Kinetic functions, equivalent equations, and fourth-order models. <i>Journal of Computational Physics</i> , 2008, 227, 4162-4189.	1.9	31
12	Well-balanced positivity preserving cell-vertex central-upwind scheme for shallow water flows. <i>Computers and Fluids</i> , 2016, 136, 193-206.	1.3	30
13	Numerical Modeling of Vertical Buoyant Jets Subjected to Lateral Confinement. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	0.7	29
14	A well-balanced positivity-preserving central-upwind scheme for shallow water equations on unstructured quadrilateral grids. <i>Computers and Fluids</i> , 2016, 126, 25-40.	1.3	27
15	Simulation of shallow flows over variable topographies using unstructured grids. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 52, 473-498.	0.9	26
16	Well-balanced central-upwind scheme for a fully coupled shallow water system modeling flows over erodible bed. <i>Journal of Computational Physics</i> , 2015, 300, 202-218.	1.9	25
17	A mass conservative scheme for simulating shallow flows over variable topographies using unstructured grid. <i>Advances in Water Resources</i> , 2005, 28, 523-539.	1.7	24
18	A transient natural convection heat transfer model for geothermal borehole heat exchangers. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	24

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19	A three-dimensional numerical study of flow characteristics in strongly curved channel bends with different side slopes. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1491-1510.	0.7	23
20	Modeling spatial distribution of flow depth in fluvial systems using a hybrid two-dimensional hydraulic-multigene genetic programming approach. <i>Journal of Hydrology</i> , 2021, 600, 126517.	2.3	23
21	Three-Dimensional Numerical Simulations of Buoyant Jets Discharged from a Rosette-Type Multiport Diffuser. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 409.	1.2	20
22	Three-Dimensional Numerical Study of Multiple Vertical Buoyant Jets in Stationary Ambient Water. <i>Journal of Hydraulic Engineering</i> , 2020, 146, 04020049.	0.7	20
23	Multigene Genetic-Programming-Based Models for Initial Dilution of Laterally Confined Vertical Buoyant Jets. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 246.	1.2	19
24	Numerical simulation of flow over ogee crested spillways under high hydraulic head ratio. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 983-1000.	1.5	19
25	Numerical modeling of local scour due to submerged wall jets using a strict vertex-based, terrain conformal, moving-mesh technique in OpenFOAM. <i>International Journal of Sediment Research</i> , 2020, 35, 237-248.	1.8	19
26	Moist multi-scale models for the hurricane embryo. <i>Journal of Fluid Mechanics</i> , 2010, 657, 478-501.	1.4	18
27	Numerical investigation of tsunami bore effects on structures, part I: drag coefficients. <i>Natural Hazards</i> , 2019, 96, 285-309.	1.6	18
28	Forecasting daily reference evapotranspiration for Canada using the Penman-Monteith model and statistically downscaled global climate model projections. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 883-891.	3.4	18
29	CFD Modeling of Effluent Discharges: A Review of Past Numerical Studies. <i>Water (Switzerland)</i> , 2020, 12, 856.	1.2	18
30	High-order low-dissipation low-dispersion diagonally implicit Runge-Kutta schemes. <i>Journal of Computational Physics</i> , 2015, 286, 38-48.	1.9	17
31	Assessment of geomorphological bank evolution of the alluvial threshold rivers based on entropy concept parameters. <i>Hydrological Sciences Journal</i> , 2019, 64, 856-872.	1.2	17
32	A conservative extension of the method of characteristics for 1-D shallow flows. <i>Applied Mathematical Modelling</i> , 2007, 31, 332-348.	2.2	16
33	Numerical investigation of the influence of extreme hydrodynamic forces on the geometry of structures using OpenFOAM. <i>Natural Hazards</i> , 2017, 87, 213-235.	1.6	16
34	Large eddy simulation of extreme hydrodynamic forces on structures with mitigation walls using OpenFOAM. <i>Natural Hazards</i> , 2017, 85, 1689-1707.	1.6	16
35	Numerical Modeling of Multiple Inclined Dense Jets Discharged from Moderately Spaced Ports. <i>Water (Switzerland)</i> , 2019, 11, 2077.	1.2	16
36	A method based on the Tsallis entropy for characterizing threshold channel bank profiles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 121089.	1.2	15

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37	A Review of Numerical Simulations of Secondary Flows in River Bends. <i>Water (Switzerland)</i> , 2021, 13, 884.	1.2	15
38	Vertically sheared horizontal flow with mass sources: a canonical balanced model. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2008, 102, 543-591.	0.4	14
39	Buoyant Jets in Cross-Flows: Review, Developments, and Applications. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 61.	1.2	14
40	Fourier analysis of a class of upwind schemes in shallow water systems for gravity and Rossby waves. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 57, 389-416.	0.9	13
41	Evolutionary Modeling of Inclined Dense Jets Discharged from Multiport Diffusers. <i>Journal of Coastal Research</i> , 2019, 36, 362.	0.1	13
42	Lagrangian Modeling of Marine Microplastics Fate and Transport: The State of the Science. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 481.	1.2	13
43	Projection of Significant Wave Height in a Coastal Area under RCPs Climate Change Scenarios. <i>Natural Hazards Review</i> , 2016, 17, 04015016.	0.8	12
44	Energy-Based Approaches in Estimating Actual Evapotranspiration Focusing on Land Surface Temperature: A Review of Methods, Concepts, and Challenges. <i>Energies</i> , 2022, 15, 1264.	1.6	12
45	Numerical modeling of thawing in frozen rocks of underground mines caused by backfilling. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011, 48, 1068-1076.	2.6	11
46	Optimal high-order diagonally-implicit Runge-Kutta schemes for nonlinear diffusive systems on atmospheric boundary layer. <i>Journal of Computational Physics</i> , 2014, 271, 118-130.	1.9	11
47	An Optimally Stable and Accurate Second-Order SSP Runge-Kutta IMEX Scheme for Atmospheric Applications. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 18-42.	1.3	11
48	Trajectory of a jet in crossflow in a channel bend. <i>Environmental Fluid Mechanics</i> , 2018, 18, 1301-1319.	0.7	11
49	Numerical modeling of local scour at a submerged weir with a downstream slope using a coupled moving-mesh and masked-element approach. <i>International Journal of Sediment Research</i> , 2021, 36, 279-290.	1.8	11
50	A simple and robust method for identifying the distribution functions of Manning's roughness coefficient along a natural river. <i>Journal of Hydrology</i> , 2021, 595, 125680.	2.3	11
51	Experimental and numerical study of flow over a broad-crested weir under different hydraulic head ratios. <i>Flow Measurement and Instrumentation</i> , 2021, 80, 102004.	1.0	11
52	Numerical and Experimental Investigation of Rectangular Liquid-Containing Structures under Seismic Excitation. <i>Infrastructures</i> , 2021, 6, 1.	1.4	11
53	Experimental and numerical study of the characteristics of thermal and nonthermal offset buoyant jets discharged into stagnant water. , 0, 141, 171-186.		11
54	A coupled two-dimensional numerical model for rapidly varying flow, sediment transport and bed morphology. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 609-621.	0.7	10

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55	Efficient Method for Coupling Field Data and Numerical Modeling for the Estimation of Transverse Mixing Coefficients in Meandering Rivers. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	0.7	10
56	Experimental Study on Extreme Hydrodynamic Loading on Pipelines Part 2: Induced Force Analysis. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 262.	1.2	10
57	Estimating future daily pan evaporation for Qatar using the Hargreaves model and statistically downscaled global climate model projections under RCP climate change scenarios. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	10
58	Numerical Modeling of Flow and Local Scour around Pipeline in Steady Currents Using Moving Mesh with Masked Elements. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	10
59	Spatial sensitivity analysis of COVID-19 infections concerning the satellite-based four air pollutants levels. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 751-760.	1.8	10
60	An unstructured finite volume method for large-scale shallow flows using the fourth-order Adams scheme. <i>Computers and Fluids</i> , 2013, 88, 579-589.	1.3	9
61	Numerical modeling of inclined plane jets in a linearly stratified environment. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1857-1867.	3.4	9
62	Review and Comparison of Numerical Simulations of Secondary Flow in River Confluences. <i>Water (Switzerland)</i> , 2021, 13, 1917.	1.2	9
63	Numerical simulation of rotation dominated linear shallow water flows using finite volume methods and fourth order Adams scheme. <i>Computers and Fluids</i> , 2012, 62, 64-70.	1.3	8
64	Theoretical and Numerical Analysis of a Class of Semi-Implicit Semi-Lagrangian Schemes Potentially Applicable to Atmospheric Models. <i>Monthly Weather Review</i> , 2014, 142, 4458-4476.	0.5	8
65	A robust coupled 2-D model for rapidly varying flows over erodible bed using central-upwind method with wetting and drying. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 530-543.	0.7	8
66	Numerical Modeling of Venturi Flume. <i>Hydrology</i> , 2021, 8, 27.	1.3	8
67	Inclined dense effluent discharge modelling in shallow waters. <i>Environmental Fluid Mechanics</i> , 2021, 21, 955-987.	0.7	8
68	Development of a time-varying MODIS/ 2D hydrodynamic model relationship between water levels and flooded areas in the Inner Niger Delta, Mali, West Africa. <i>Journal of Hydrology: Regional Studies</i> , 2020, 30, 100703.	1.0	8
69	Prediction of land-use conversions for use in watershed-scale hydrological modeling: a Canadian case study. <i>Canadian Geographer / Geographie Canadien</i> , 2014, 58, 499-516.	1.0	7
70	Experimental Study on Extreme Hydrodynamic Loading on Pipelines. Part 1: Flow Hydrodynamics. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 251.	1.2	7
71	Improving the Accuracy of Hydrodynamic Simulations in Data Scarce Environments Using Bayesian Model Averaging: A Case Study of the Inner Niger Delta, Mali, West Africa. <i>Water (Switzerland)</i> , 2019, 11, 1766.	1.2	7
72	An adaptive well-balanced positivity preserving central-upwind scheme on quadtree grids for shallow water equations. <i>Computers and Fluids</i> , 2020, 208, 104633.	1.3	7

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73	Effect of rating curve hysteresis on flood extent simulation with a 2D hydrodynamic model: A case study of the Inner Niger Delta, Mali, West Africa. <i>Journal of African Earth Sciences</i> , 2021, 178, 104187.	0.9	7
74	Evolutionary Prediction of the Trajectory of a Rosette Momentum Jet Group in Flowing Currents. <i>Journal of Coastal Research</i> , 2020, 36, 1059.	0.1	7
75	A β -vortex in cell model for quasi-geostrophic, shallow water dynamics on the sphere. <i>Ocean Modelling</i> , 2010, 32, 132-142.	1.0	6
76	A study into extraction of geothermal energy from tailings ponds. <i>International Journal of Mining, Reclamation and Environment</i> , 2013, 27, 257-274.	1.2	6
77	Numerical investigation of tsunami bore effects on structures, part II: effects of bed condition on loading onto circular structures. <i>Natural Hazards</i> , 2019, 96, 331-351.	1.6	6
78	Experimental study of surface buoyant jets in crossflow. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1007-1030.	0.7	6
79	Experimental Investigation and Model Development of Geometric Characteristics of Negatively Buoyant Jets Inclined at 15° and 52° using GMDH Method. <i>Journal of Coastal Research</i> , 2020, 36, 636.	0.1	6
80	In situ spatially distributed field measurements of transverse dispersion of a wastewater effluent in an extended natural meandering river. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 20-35.	0.7	5
81	Numerical modeling of submarine turbidity currents over erodible beds using unstructured grids. <i>Ocean Modelling</i> , 2017, 113, 157-170.	1.0	5
82	Three-dimensional shallow water system: A relaxation approach. <i>Journal of Computational Physics</i> , 2017, 333, 160-179.	1.9	5
83	Nature-Based Coastal Protection by Large Woody Debris as Compared to Seawalls: A Physical Model Study of Beach Morphology and Wave Reflection. <i>Water (Switzerland)</i> , 2021, 13, 2020.	1.2	5
84	Evolutionary prediction of multiple vertical buoyant jets in stationary ambient water. , 0, 178, 41-52.		5
85	Simulations of the Concentration Fields of Rosette-Type Multiport Buoyant Discharges Using Combined CFD and Multigene Genetic Programming Techniques. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1311.	1.2	5
86	On the Prediction of Evaporation in Arid Climate Using Machine Learning Model. <i>Mathematical and Computational Applications</i> , 2022, 27, 32.	0.7	5
87	Application of the Chebyshev pseudospectral method to van der Waals fluids. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 3499-3507.	1.7	4
88	A stable and accurate scheme for nonlinear diffusion equations: Application to atmospheric boundary layer. <i>Journal of Computational Physics</i> , 2013, 236, 271-288.	1.9	4
89	Nitrification kinetics and modified model for the Rideau River, Canada. <i>Water Quality Research Journal of Canada</i> , 2013, 48, 192-201.	1.2	4
90	Extension of a well-balanced central upwind scheme for variable density shallow water flow equations on triangular grids. <i>Computers and Fluids</i> , 2017, 156, 441-448.	1.3	4

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91	Comparison of 2D triangular C-grid shallow water models. <i>Computers and Fluids</i> , 2018, 161, 136-154.	1.3	4
92	Enhanced formulation of the probability principle based on maximum entropy to design the bank profile of channels in geomorphic threshold. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1013-1034.	1.9	4
93	Integrated finite strip flutter analysis of bridges. <i>Computers and Structures</i> , 2019, 212, 145-161.	2.4	4
94	Experimental Investigation of Loading due to Debris Dams on Structures. <i>Journal of Hydraulic Engineering</i> , 2020, 146, 04020029.	0.7	4
95	Analysis of triangular C-grid finite volume scheme for shallow water flows. <i>Advances in Water Resources</i> , 2015, 82, 176-195.	1.7	3
96	Three-dimensional modeling of non-hydrostatic free-surface flows on unstructured grids. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 130-147.	0.9	3
97	A numerical model for three-dimensional shallow water flows with sharp gradients over mobile topography. <i>Computers and Fluids</i> , 2017, 154, 1-11.	1.3	3
98	Late-time asymptotic behavior of solutions to hyperbolic conservation laws on the sphere. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 349, 285-311.	3.4	3
99	Experimental Investigations of Hydraulic Surges Passing Over a Rectangular Canal. <i>Journal of Earthquake and Tsunami</i> , 2020, 14, 2040004.	0.7	3
100	Numerical modeling of dam-break flood flows for dry and wet sloped beds. <i>ISH Journal of Hydraulic Engineering</i> , 2023, 29, 259-269.	1.1	3
101	Conservative semi-implicit semi-Lagrangian scheme for simulation of shallow flows. <i>Computer Physics Communications</i> , 2006, 174, 99-108.	3.0	2
102	Numerical approximation of viscous terms in finite volume models for shallow waters. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 63, 584-599.	0.9	2
103	Analytical and Chebyshev pseudospectral numerical solutions for a class of axisymmetric horizontal flows dominated by mass or heat sources. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 537-561.	0.9	2
104	An Efficient Framework for Multi-Objective Risk-Informed Decision Support Systems for Drainage Rehabilitation. <i>Mathematical and Computational Applications</i> , 2020, 25, 73.	0.7	2
105	Prediction of a rosette dense jet group in crossflow ambient conditions using multi-gene genetic programming. , 0, 190, 440-448.		2
106	Numerical Simulation of Flow in Parshall Flume Using Selected Nonlinear Turbulence Models. <i>Hydrology</i> , 2021, 8, 151.	1.3	2
107	Influence of Negatively Buoyant Jets on a Strongly Curved Open-Channel Flow Using RANS Models with Experimental Data. <i>Water (Switzerland)</i> , 2022, 14, 347.	1.2	2
108	Application of Numerical and Experimental Modeling to Improve the Efficiency of Parshall Flumes: A Review of the State-of-the-Art. <i>Hydrology</i> , 2022, 9, 26.	1.3	2

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109	Applications of ANFIS-Type Methods in Simulation of Systems in Marine Environments. <i>Mathematical and Computational Applications</i> , 2022, 27, 29.	0.7	2
110	Numerical Simulation of Turbulent Flow in Bends and Confluences Considering Free Surface Changes Using the Volume of Fluid Method. <i>Water (Switzerland)</i> , 2022, 14, 1307.	1.2	2
111	Numerical Study on the Effect of Port Orientation on Multiple Inclined Dense Jets. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 590.	1.2	2
112	Tsunami-Induced Bore Propagating over a Canalâ€”Part 1: Laboratory Experiments and Numerical Validation. <i>Fluids</i> , 2022, 7, 213.	0.8	2
113	A Comprehensive Study of Artificial Intelligence Applications for Soil Temperature Prediction in Ordinary Climate Conditions and Extremely Hot Events. <i>Sustainability</i> , 2022, 14, 8065.	1.6	2
114	Existence and smoothness of continuous and discrete solutions of a two-dimensional shallow water problem over movable beds. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2013, 76, 244-256.	0.6	1
115	Stability analysis of unstructured finite volume methods for linear shallow water flows using pseudospectra and singular value decomposition. <i>Advances in Water Resources</i> , 2016, 96, 127-144.	1.7	1
116	Prediction of Maximum Pressure at the Roofs of Rectangular Water Tanks Subjected to Harmonic Base Excitation Using the Multi-Gene Genetic Programming Method. <i>Mathematical and Computational Applications</i> , 2021, 26, 6.	0.7	1
117	Mixing of inclined dense jets: a numerical modeling. , 2021, , 343-367.		1
118	Evolutionary prediction of an inclined dense jet in shallow water. , 0, 155, 32-47.		1
119	Tsunami-Induced Bores Propagating over a Canal, Part II: Numerical Experiments Using the Standard $k\text{-}\mu$ Turbulence Model. <i>Fluids</i> , 2022, 7, 214.	0.8	1
120	Hydrodynamics and Associated Scour around a Free-Standing Structure Due to Turbulent Bores. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2022, 148, .	0.5	1
121	New analytical and CWENO numerical solutions for axisymmetric horizontal flows with heat sources. <i>Applied Mathematical Modelling</i> , 2012, 36, 2521-2535.	2.2	0
122	Existence and smoothness of continuous and discrete solutions of a two-dimensional shallow water problem over movable beds with nonlinear sediment transport relationship. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 246-263.	0.9	0
123	Closure to â€œA coupled two-dimensional numerical model for rapidly varying flow, sediment transport and bed morphologyâ€”by XIN LIU, JULIO ĂNGEL INFANTE SEDANO and ABDOLMAJID MOHAMMADIAN, <i>Hydraulic Res.</i> 53(5), 2015, 609â€”621. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018, 56, 751-752.	0.7	0
124	An efficient semiâ€”implicit temporal scheme for boundaryâ€”layer vertical diffusion. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 609-619.	1.0	0
125	On Dissipation and Dispersion Errors Optimization, A-Stability and SSP Properties. <i>Communications in Computational Physics</i> , 2018, 24, .	0.7	0
126	An adaptive centralâ€”upwind scheme on quadtree grids for variable density shallow water equations. <i>International Journal for Numerical Methods in Fluids</i> , 0, , .	0.9	0

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127	Numerical simulation of a highly turbulent wall jet in a confined basin. ISH Journal of Hydraulic Engineering, 0, , 1-12.	1.1	0
128	Integrated Finite Strip Computation for Modelling and Frequency Analysis of Hybrid Laminated FRP Structures. Mathematical and Computational Applications, 2022, 27, 47.	0.7	0
129	Experimental Studies on the Influence of Negatively Buoyant Jets on Flow Distribution in a 135-Degree Open Channel Bend. Water (Switzerland), 2022, 14, 1898.	1.2	0