John Abraham

List of Publications by Year
in descending order

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Version: 2024-02-01

125	3,389	257450	175258
papers	citations	24 h-index	52 g-index

128	128	128	3457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prediction of discharge coefficients for broad-crested weirs using expert systems. ISH Journal of Hydraulic Engineering, 2023, 29, 1-11.	2.1	3
2	The impact of cables on local scouring of bridge piers using experimental study and ANN, ANFIS algorithms. Water Science and Technology: Water Supply, 2022, 22, 1075-1093.	2.1	7
3	Impact of inclined double-cutoff walls under hydraulic structures on uplift forces, seepage discharge and exit hydraulic gradient. Ain Shams Engineering Journal, 2022, 13, 101531.	6.1	13
4	Climatological seasonal variation of the upper ocean salinity. International Journal of Climatology, 2022, 42, 3477-3498.	3.5	7
5	Another Record: Ocean Warming Continues through 2021 despite La NiÃ±a Conditions. Advances in Atmospheric Sciences, 2022, 39, 373-385.	4.3	47
6	Multivariate Nonlinear Regression for Predicting Free Falling-Jet Scouring: An Experimental Study. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 3859-3870.	1.9	4
7	Experimental Investigation of Multiple Supercritical Flow States and the Effect of Hysteresis on the Relative Residual Energy in Sudden and Gradual Contractions. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 3843-3858.	1.9	1
8	Using cadaver temperatures to estimate time of death: A caseâ€specific numerical approach. Journal of Forensic Sciences, 2022, , .	1.6	0
9	Evaluation of variable speed pumps in pressurized water distribution systems. Applied Water Science, 2022, 12, 1.	5.6	2
10	Numerical Simulation of Microwave Ablation in the Human Liver. Processes, 2022, 10, 361.	2.8	5
11	Numerical simulation and application of soft computing in estimating vertical drop energy dissipation with horizontal serrated edge. Water Science and Technology: Water Supply, 2022, 22, 4676-4689.	2.1	11
12	Flow resistance and velocity distribution in a smooth triangular channel. Water Science and Technology: Water Supply, 2022, 22, 5253-5264.	2.1	10
13	Discharge coefficients for ogee spillways. Water Science and Technology: Water Supply, 2022, 22, 5376-5392.	2.1	3
14	Improved Quantification of the Rate of Ocean Warming. Journal of Climate, 2022, 35, 4827-4840.	3.2	22
15	How Well Do CMIP6 and CMIP5 Models Simulate the Climatological Seasonal Variations in Ocean Salinity?. Advances in Atmospheric Sciences, 2022, 39, 1650-1672.	4.3	6
16	Heat Transfer Enhancement for Internal Flows with a Centrally Located Circular Obstruction and the Impact of Buoyancy. Heat Transfer Engineering, 2022, 43, 1789-1805.	1.9	4
17	Numerical investigation of the effect of geometric parameters on discharge coefficients for broad-crested weirs with sloped upstream and downstream faces. Applied Water Science, 2022, 12, 1.	5.6	4
18	The ocean response to climate change guides both adaptation and mitigation efforts. Atmospheric and Oceanic Science Letters, 2022, 15, 100221.	1.3	8

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19	3-D Numerical simulation of water flow over a broad-crested weir with openings. ISH Journal of Hydraulic Engineering, 2021, 27, 88-96.	2.1	25
20	The laboratory study of energy dissipation in inclined drops equipped with a screen. Journal of Applied Water Engineering and Research, 2021, 9, 184-193.	1.8	14
21	Prediction of discharge coefficients for sluice gates equipped with different geometric sills under the gate using multiple non-linear regression (MNLR). Journal of Hydrology, 2021, 597, 125728.	5.4	13
22	Study of the performance of support vector machine for predicting vertical drop hydraulic parameters in the presence of dual horizontal screens. Water Science and Technology: Water Supply, 2021, 21, 217-231.	2.1	29
23	PredictionÂof Homogeneous Earthen Slope Safety Factors Using the Forest and Tree Based Modelling. Geotechnical and Geological Engineering, 2021, 39, 2849-2862.	1.7	6
24	Upper Ocean Temperatures Hit Record High in 2020. Advances in Atmospheric Sciences, 2021, 38, 523-530.	4.3	99
25	Effect of Drain Pipes on Uplift Force and Exit Hydraulic Gradient and the Design of Gravity Dams Using the Finite Element Method. Geotechnical and Geological Engineering, 2021, 39, 3383-3399.	1.7	6
26	Investigating the Effect of Horizontal Screen on Hydraulic Parameters of Vertical Drop. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 1909-1917.	1.9	8
27	Discharge Coefficients for Rectangular Broad-Crested Gabion Weirs: Experimental Study. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	14
28	Experimental investigation of gabion inclined drops as a sustainable solution for hydraulic energy loss. Ain Shams Engineering Journal, 2021, 12, 3451-3459.	6.1	14
29	Examining the Influence of Recording System on the Pure Temperature Error in XBT Data. Journal of Atmospheric and Oceanic Technology, 2021, 38, 759-776.	1.3	7
30	Three-Dimensional Investigation of Hydraulic Properties of Vertical Drop in the Presence of Step and Grid Dissipators. Symmetry, 2021, 13, 895.	2.2	13
31	SVM Performance for Predicting the Effect of Horizontal Screen Diameters on the Hydraulic Parameters of a Vertical Drop. Applied Sciences (Switzerland), 2021, 11, 4238.	2.5	19
32	Predicting relative energy dissipation for vertical drops equipped with a horizontal screen using soft computing techniques. Water Science and Technology: Water Supply, 2021, 21, 4493-4513.	2.1	5
33	Integral properties of turbulent natural convection over a vertical flat plate. International Communications in Heat and Mass Transfer, 2021, 125, 105286.	5.6	4
34	Effect of Different Channels on Discharge Coefficient of Labyrinth Weirs. Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, 2021, 32, 11081-11096.	1.1	5
35	Laboratory Investigation of Hydraulic Parameters on Inclined Drop Equipped with Fishway Elements. Symmetry, 2021, 13, 1643.	2.2	9
36	Closure to â€œExpert System for Determining Discharge Coefficients for Inclined Slide Gates Using Genetic Programmingâ€•by Farzin Salmasi and John Abraham. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, 07021018.	1.0	1

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37	Closure to â€œDischarge Coefficients for Rectangular Broad-Crested Gabion Weirs: An Experimental Studyâ€•by Farzin Salmasi, Nastaran Sabahi, and John Abraham. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, 07021020.	1.0	0
38	Layered structure of turbulent natural convection over a vertical flat plate. International Journal of Heat and Mass Transfer, 2021, 181, 121866.	4.8	3
39	Effect of stepped spillways on increasing dissolved oxygen in water, an experimental study. Journal of Environmental Management, 2021, 299, 113600.	7.8	9
40	Application of SVM, ANN, GRNN, RF, GP and RT models for predicting discharge coefficients of oblique sluice gates using experimental data. Water Science and Technology: Water Supply, 2021, 21, 232-248.	2.1	34
41	Prediction of Hydraulic Jumps on a Triangular Bed Roughness Using Numerical Modeling and Soft Computing Methods. Mathematics, 2021, 9, 3135.	2.2	18
42	Investigation of trapezoidal sharp-crested side weir discharge coefficients under subcritical flow regimes using CFD. Applied Water Science, 2020, 10, 1.	5.6	22
43	Upstream Cutoff and Downstream Filters to Control of Seepage in Dams. Water Resources Management, 2020, 34, 4271-4288.	3.9	14
44	Expert System for Determining Discharge Coefficients for Inclined Slide Gates Using Genetic Programming. Journal of Irrigation and Drainage Engineering - ASCE, 2020, 146, 06020013.	1.0	15
45	Increasing ocean stratification over the past half-century. Nature Climate Change, 2020, 10, 1116-1123.	18.8	229
46	Effect of Inclined Clay Core on Embankment Dam Seepage and Stability Through LEM and FEM. Geotechnical and Geological Engineering, 2020, 38, 6571-6586.	1.7	20
47	Estimation of Actual Evapotranspiration Using the Remote Sensing Method and SEBAL Algorithm: A Case Study in Ein Khosh Plain, Iran. Hydrology, 2020, 7, 36.	3.0	20
48	Experimental investigation on effective scouring parameters downstream from stepped spillways. Water Science and Technology: Water Supply, 2020, 20, 1988-1998.	2.1	25
49	Discharge coefficients for ogee weirs including the effects of a sloping upstream face. Water Science and Technology: Water Supply, 2020, 20, 1493-1508.	2.1	8
50	Investigation of the effect of the different configurations of double-cutoff walls beneath hydraulic structures on uplift forces and exit hydraulic gradients. Journal of Hydrology, 2020, 586, 124858.	5.4	14
51	Reply to the discussion on paper: 3-D numerical simulation of water flow over a broad-crested weir with openings by Daneshfaraz et al., 2019, in ISH journal of hydraulic engineering, DOI: 10.1080/09715010.2019.1581098. ISH Journal of Hydraulic Engineering, 2020, , 1-3.	2.1	1
52	Predicting seepage from unlined earthen channels using the finite element method and multi variable nonlinear regression. Agricultural Water Management, 2020, 234, 106148.	5.6	24
53	Using heat to kill <scp>SARSâ€CoV</scp>â€2. Reviews in Medical Virology, 2020, 30, e2115.	8.3	88
54	Efficiency of Trapezoidal Labyrinth Shaped stepped spillways. Flow Measurement and Instrumentation, 2020, 72, 101711.	2.0	47

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55	Record-Setting Ocean Warmth Continued in 2019. Advances in Atmospheric Sciences, 2020, 37, 137-142.	4.3	126
56	Discussion of â€œHydrodynamics of Rectangular Broad-Crested Porous Weirsâ€•by Akbar Safarzadeh and Seyed Hossein Mohajeri. Journal of Irrigation and Drainage Engineering - ASCE, 2020, 146, .	1.0	8
57	Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. Journal of Climate, 2020, 33, 10357-10381.	3.2	105
58	A Review of Hot Beverage Temperaturesâ€”Satisfying Consumer Preference and Safety. Journal of Food Science, 2019, 84, 2011-2014.	3.1	8
59	Numerical investigation of granular filter under the bed of a canal. Applied Water Science, 2019, 9, 1.	5.6	7
60	Examining the salinity change in the upper Pacific Ocean during the Argo period. Climate Dynamics, 2019, 53, 6055-6074.	3.8	23
61	Data-based bivariate uncertainty assessment of extreme rainfall-runoff using copulas: comparison between annual maximum series (AMS) and peaks over threshold (POT). Environmental Monitoring and Assessment, 2019, 191, 67.	2.7	16
62	Laboratory Study of the Effect of Sills on Radial Gate Discharge Coefficient. KSCE Journal of Civil Engineering, 2019, 23, 2117-2125.	1.9	14
63	Heat risks associated with synthetic athletic fields. International Journal of Hyperthermia, 2019, 36, 515-516.	2.5	2
64	Heat transfer regimes in fully developed circular tube flows, a map of flow regimes. International Communications in Heat and Mass Transfer, 2019, 104, 147-152.	5.6	10
65	How fast are the oceans warming?. Science, 2019, 363, 128-129.	12.6	350
66	2018 Continues Record Global Ocean Warming. Advances in Atmospheric Sciences, 2019, 36, 249-252.	4.3	54
67	Tissue burns due to contact between a skin surface and highly conducting metallic media in the presence of inter-tissue boiling. Burns, 2019, 45, 369-378.	1.9	12
68	How Well Can We Correct Systematic Errors in Historical XBT Data?. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1103-1125.	1.3	14
69	Numerical investigation on the effect of sudden contraction on flow behavior in a 90-degree bend. KSCE Journal of Civil Engineering, 2018, 22, 603-612.	1.9	2
70	Consensuses and discrepancies of basin-scale ocean heat content changes in different ocean analyses. Climate Dynamics, 2018, 50, 2471-2487.	3.8	41
71	Prediction of Groundwater Level in Ardebil Plain Using Support Vector Regression and M5 Tree Model. Ground Water, 2018, 56, 636-646.	1.3	57
72	Estimation of sodium adsorption ratio indicator using data mining methods: a case study in Urmia Lake basin, Iran. Environmental Science and Pollution Research, 2018, 25, 4776-4786.	5.3	25

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73	Decadal Ocean Heat Redistribution Since the Late 1990s and Its Association with Key Climate Modes. Climate, 2018, 6, 91.	2.8	18
74	Improved estimates of ocean heat content from 1960 to 2015. Science Advances, 2017, 3, e1601545.	10.3	460
75	Briefing: Future climate projections allow engineering planning. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2017, 170, 54-57.	0.5	4
76	Use of multi-lumen catheters to preserve injected stem cell viability and injectant dispersion. Cardiovascular Revascularization Medicine, 2017, 18, S49-S57.	0.8	3
77	Transcutaneous Recharge: A Comparison of Numerical Simulation to In Vivo Experiments. Neuromodulation, 2017, 20, 613-621.	0.8	5
78	Heat Transfer Design Methodology Treating a Heat Exchange Device and Its Fluid-Mover Partner as a Single System. Heat Transfer Engineering, 2017, 38, 841-852.	1.9	0
79	Taking the Pulse of the Planet. Eos, 2017, , .	0.1	21
80	Validation of Numerically Simulated Tissue Temperatures During Transcutaneous Recharge of Neurostimulation Systems. Neuromodulation, 2016, 19, 161-170.	0.8	6
81	Evaluation of the efficacy of turbulence models for swirling flows and the effect of turbulence intensity on heat transfer. Numerical Heat Transfer, Part B: Fundamentals, 2016, 70, 485-502.	0.9	24
82	Comprehensive method to predict and quantify scald burns from beverage spills. International Journal of Hyperthermia, 2016, 32, 900-910.	2.5	28
83	Investigation of the Effect of Edge Shape on Characteristics of Flow Under Vertical Gates. Journal - American Water Works Association, 2016, 108, E425.	0.3	20
84	Quantification of the Effect of Water Temperature on the Fall Rate of Expendable Bathythermographs. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1271-1284.	1.3	7
85	Alterations of Blood Flow Through Arteries Following Atherectomy and the Impact on Pressure Variation and Velocity. Cardiovascular Engineering and Technology, 2016, 7, 280-289.	1.6	14
86	Correcting a prevalent misunderstanding of burns. Burns, 2016, 42, 715-716.	1.9	13
87	XBT Science: Assessment of Instrumental Biases and Errors. Bulletin of the American Meteorological Society, 2016, 97, 924-933.	3.3	72
88	Using corner chamfers to reduce the drag of flat-sided columns. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2015, 168, 79-88.	0.4	4
89	Briefing: Antarctic ice sheet mass loss and future sea-level rise. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2015, 168, 81-84.	0.5	5
90	Briefing: Extreme weather: observed precipitation changes in the USA. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2015, 168, 68-70.	0.5	6

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91	Models and experiments for energy consumption and quality of green tea drying. Energy Science and Engineering, 2015, 3, 43-50.	4.0	7
92	Convective heat transfer enhancement versus disenhancement: Impact of fluid-mover characteristics. Applied Thermal Engineering, 2015, 90, 242-249.	6.0	0
93	Evolution of Thermal Dosimetry for Application of Hyperthermia to Treat Cancer. Advances in Heat Transfer, 2015, 47, 397-421.	0.9	25
94	Estimating the time and temperature relationship for causation of deep-partial thickness skin burns. Burns, 2015, 41, 1741-1747.	1.9	48
95	Intracoronary Injection of Medication From Multilumen Injection Catheters1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	2
96	Rationalization of thermal injury quantification methods: Application to skin burns. Burns, 2014, 40, 896-902.	1.9	51
97	Modeling and numerical simulation of the forces acting on a sphere during early-water entry. Ocean Engineering, 2014, 76, 1-9.	4.3	62
98	Theory and Numerical Simulation of Thermochemical Ablation. Numerical Heat Transfer; Part A: Applications, 2014, 66, 131-143.	2.1	7
99	Flow Regime Determination for Finned Heat Exchanger Surfaces with Dimples/Protrusions. Numerical Heat Transfer; Part A: Applications, 2013, 63, 245-256.	2.1	14
100	Quantitative Assessment of the Overall Heat Transfer Coefficient U. Journal of Heat Transfer, 2013, 135, .	2.1	22
101	Comment on: Akasofu, S.-I. On the Present Halting of Global Warming. Climate 2013, 1, 4â€“11. Climate, 2013, 1, 76-83.	2.8	1
102	Issues in Establishing Climate Sensitivity in Recent Studies. Remote Sensing, 2011, 3, 2051-2056.	4.0	9
103	Surrogate Human Tissue Temperatures Resulting From Misalignment of Antenna and Implant During Recharging of a Neuromodulation Device. Neuromodulation, 2011, 14, 501-511.	0.8	12
104	Simulation of helically wrapped, compact heat exchangers. Journal of Renewable and Sustainable Energy, 2011, 3, 043120.	2.0	2
105	Human tissue temperatures achieved during recharging of new-generation neuromodulation devices. International Journal of Heat and Mass Transfer, 2010, 53, 3292-3299.	4.8	19
106	Potential tissue damage from transcutaneous recharge of neuromodulation implants. International Journal of Heat and Mass Transfer, 2009, 52, 3518-3524.	4.8	26
107	Induced co-flow and laminar-to-turbulent transition with synthetic jets. Computers and Fluids, 2009, 38, 1011-1017.	2.5	10
108	A comparison of corn-based ethanol with cellulosic ethanol as replacements for petroleum-based fuels: a review. International Journal of Sustainable Energy, 2009, 28, 171-182.	2.4	8

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109	A Simulation of Gas-Based, Endometrial-Ablation Therapy. Annals of Biomedical Engineering, 2008, 36, 171-183.	2.5	9
110	Fluid Flow in a System with Separate Laminar and Turbulent Zones. Numerical Heat Transfer; Part A: Applications, 2008, 53, 341-353.	2.1	42
111	Unified Treatment of Natural Convection in Tall Narrow and Flat Wide Rectangular Enclosures. Numerical Heat Transfer; Part A: Applications, 2008, 54, 763-776.	2.1	7
112	A Quasi-Analytical Method for Fluid Flow in a Multi-Inlet Collection Manifold. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 579-586.	1.5	10
113	Numerical Simulation of a BPH Thermal Therapyâ€"A Case Study Involving TUMT. Journal of Biomechanical Engineering, 2007, 129, 548-557.	1.3	16
114	Full-building radiation shielding for climate control in desert regions. International Journal of Sustainable Energy, 2007, 26, 167-177.	2.4	4
115	Attainment of Flowrate Uniformity in the Channels That Link a Distribution Manifold to a Collection Manifold. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 1186-1192.	1.5	16
116	The Design of Cold Plates for the Thermal Management of Electronic Equipment. Heat Transfer Engineering, 2006, 27, 6-16.	1.9	22
117	Universal solutions for the streamwise variation of the temperature of a moving sheet in the presence of a moving fluid. International Journal of Heat and Mass Transfer, 2005, 48, 3047-3056.	4.8	124
118	A DOS-Enhanced Numerical Simulation of Heat Transfer and Fluid Flow Through an Array of Offset Fins With Conjugate Heating in the Bounding Solid. Journal of Heat Transfer, 2005, 127, 27-33.	2.1	18
119	NUMERICAL SIMULATION OF THE RADIATIVE HEATING OF A MOVING SHEET. Numerical Heat Transfer; Part A: Applications, 2004, 47, 1-25.	2.1	6
120	Archival correlations for average heat transfer coefficients for non-circular and circular cylinders and for spheres in cross-flow. International Journal of Heat and Mass Transfer, 2004, 47, 5285-5296.	4.8	145
121	Global Upper Ocean Heat Content Estimation: Recent Progress and the Remaining Challenges. , 0, .		14
122	Genetic algorithms for optimizing stepped spillways to maximize energy dissipation. Water Science and Technology: Water Supply, 0, , .	2.1	1
123	Experimental Investigation for Determination of Discharge Coefficients for Inclined Slide Gates and Comparison with Data-Driven Models. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 0, , 1.	1.9	0
124	Effect of slope on energy dissipation for flow over a stepped spillway. Water Science and Technology: Water Supply, 0, , .	2.1	4
125	Enhancement of heat and mass transfer by herringbone microstructures in a simple shear flow. Physics of Fluids, 0, , .	4.0	1