John Abraham

List of Publications by Year
in descending order

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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	Improved estimates of ocean heat content from 1960 to 2015. Science Advances, 2017, 3, e1601545.	10.3	460
2	How fast are the oceans warming?. Science, 2019, 363, 128-129.	12.6	350
3	Increasing ocean stratification over the past half-century. Nature Climate Change, 2020, 10, 1116-1123.	18.8	229
4	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
5	Record-Setting Ocean Warmth Continued in 2019. Advances in Atmospheric Sciences, 2020, 37, 137-142.	4.3	126
6	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
7	Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. Journal of Climate, 2020, 33, 10357-10381.	3.2	105
8	Upper Ocean Temperatures Hit Record High in 2020. Advances in Atmospheric Sciences, 2021, 38, 523-530.	4.3	99
9	Using heat to kill <scp>SARSâ€CoV</scp>â€2. Reviews in Medical Virology, 2020, 30, e2115.	8.3	88
10	XBT Science: Assessment of Instrumental Biases and Errors. Bulletin of the American Meteorological Society, 2016, 97, 924-933.	3.3	72
11	Modeling and numerical simulation of the forces acting on a sphere during early-water entry. Ocean Engineering, 2014, 76, 1-9.	4.3	62
12	Prediction of Groundwater Level in Ardebil Plain Using Support Vector Regression and M5 Tree Model. Ground Water, 2018, 56, 636-646.	1.3	57
13	2018 Continues Record Global Ocean Warming. Advances in Atmospheric Sciences, 2019, 36, 249-252.	4.3	54
14	Rationalization of thermal injury quantification methods: Application to skin burns. Burns, 2014, 40, 896-902.	1.9	51
15	Estimating the time and temperature relationship for causation of deep-partial thickness skin burns. Burns, 2015, 41, 1741-1747.	1.9	48
16	Efficiency of Trapezoidal Labyrinth Shaped stepped spillways. Flow Measurement and Instrumentation, 2020, 72, 101711.	2.0	47
17	Another Record: Ocean Warming Continues through 2021 despite La NiÃ±a Conditions. Advances in Atmospheric Sciences, 2022, 39, 373-385.	4.3	47
18	Fluid Flow in a System with Separate Laminar and Turbulent Zones. Numerical Heat Transfer; Part A: Applications, 2008, 53, 341-353.	2.1	42

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19	Consensuses and discrepancies of basin-scale ocean heat content changes in different ocean analyses. Climate Dynamics, 2018, 50, 2471-2487.	3.8	41
20	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
21	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
22	Comprehensive method to predict and quantify scald burns from beverage spills. International Journal of Hyperthermia, 2016, 32, 900-910.	2.5	28
23	Potential tissue damage from transcutaneous recharge of neuromodulation implants. International Journal of Heat and Mass Transfer, 2009, 52, 3518-3524.	4.8	26
24	Evolution of Thermal Dosimetry for Application of Hyperthermia to Treat Cancer. Advances in Heat Transfer, 2015, 47, 397-421.	0.9	25
25	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
26	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
27	Experimental investigation on effective scouring parameters downstream from stepped spillways. Water Science and Technology: Water Supply, 2020, 20, 1988-1998.	2.1	25
28	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
29	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
30	Examining the salinity change in the upper Pacific Ocean during the Argo period. Climate Dynamics, 2019, 53, 6055-6074.	3.8	23
31	The Design of Cold Plates for the Thermal Management of Electronic Equipment. Heat Transfer Engineering, 2006, 27, 6-16.	1.9	22
32	Quantitative Assessment of the Overall Heat Transfer Coefficient U. Journal of Heat Transfer, 2013, 135, .	2.1	22
33	Investigation of trapezoidal sharp-crested side weir discharge coefficients under subcritical flow regimes using CFD. Applied Water Science, 2020, 10, 1.	5.6	22
34	Improved Quantification of the Rate of Ocean Warming. Journal of Climate, 2022, 35, 4827-4840.	3.2	22
35	Taking the Pulse of the Planet. Eos, 2017, , .	0.1	21
36	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

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37	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
38	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
39	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
40	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
41	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
42	Decadal Ocean Heat Redistribution Since the Late 1990s and Its Association with Key Climate Modes. Climate, 2018, 6, 91.	2.8	18
43	Prediction of Hydraulic Jumps on a Triangular Bed Roughness Using Numerical Modeling and Soft Computing Methods. Mathematics, 2021, 9, 3135.	2.2	18
44	Numerical Simulation of a BPH Thermal Therapyâ€"A Case Study Involving TUMT. Journal of Biomechanical Engineering, 2007, 129, 548-557.	1.3	16
45	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
46	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
47	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
48	Flow Regime Determination for Finned Heat Exchanger Surfaces with Dimples/Protrusions. Numerical Heat Transfer; Part A: Applications, 2013, 63, 245-256.	2.1	14
49	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
50	How Well Can We Correct Systematic Errors in Historical XBT Data?. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1103-1125.	1.3	14
51	Laboratory Study of the Effect of Sills on Radial Gate Discharge Coefficient. KSCE Journal of Civil Engineering, 2019, 23, 2117-2125.	1.9	14
52	Upstream Cutoff and Downstream Filters to Control of Seepage in Dams. Water Resources Management, 2020, 34, 4271-4288.	3.9	14
53	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
54	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

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55	Discharge Coefficients for Rectangular Broad-Crested Gabion Weirs: Experimental Study. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	14
56	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
57	Global Upper Ocean Heat Content Estimation: Recent Progress and the Remaining Challenges. , 0, .		14
58	Correcting a prevalent misunderstanding of burns. Burns, 2016, 42, 715-716.	1.9	13
59	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
60	Three-Dimensional Investigation of Hydraulic Properties of Vertical Drop in the Presence of Step and Grid Dissipators. Symmetry, 2021, 13, 895.	2.2	13
61	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
62	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
63	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
64	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
65	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
66	Induced co-flow and laminar-to-turbulent transition with synthetic jets. Computers and Fluids, 2009, 38, 1011-1017.	2.5	10
67	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
68	Flow resistance and velocity distribution in a smooth triangular channel. Water Science and Technology: Water Supply, 2022, 22, 5253-5264.	2.1	10
69	A Simulation of Gas-Based, Endometrial-Ablation Therapy. Annals of Biomedical Engineering, 2008, 36, 171-183.	2.5	9
70	Issues in Establishing Climate Sensitivity in Recent Studies. Remote Sensing, 2011, 3, 2051-2056.	4.0	9
71	Laboratory Investigation of Hydraulic Parameters on Inclined Drop Equipped with Fishway Elements. Symmetry, 2021, 13, 1643.	2.2	9
72	Effect of stepped spillways on increasing dissolved oxygen in water, an experimental study. Journal of Environmental Management, 2021, 299, 113600.	7.8	9

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73	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
74	A Review of Hot Beverage Temperaturesâ€"Satisfying Consumer Preference and Safety. Journal of Food Science, 2019, 84, 2011-2014.	3.1	8
75	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
76	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
77	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
78	The ocean response to climate change guides both adaptation and mitigation efforts. Atmospheric and Oceanic Science Letters, 2022, 15, 100221.	1.3	8
79	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
80	Theory and Numerical Simulation of Thermochemical Ablation. Numerical Heat Transfer; Part A: Applications, 2014, 66, 131-143.	2.1	7
81	Models and experiments for energy consumption and quality of green tea drying. Energy Science and Engineering, 2015, 3, 43-50.	4.0	7
82	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
83	Numerical investigation of granular filter under the bed of a canal. Applied Water Science, 2019, 9, 1.	5.6	7
84	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
85	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
86	Climatological seasonal variation of the upper ocean salinity. International Journal of Climatology, 2022, 42, 3477-3498.	3.5	7
87	NUMERICAL SIMULATION OF THE RADIATIVE HEATING OF A MOVING SHEET. Numerical Heat Transfer; Part A: Applications, 2004, 47, 1-25.	2.1	6
88	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
89	Validation of Numerically Simulated Tissue Temperatures During Transcutaneous Recharge of Neurostimulation Systems. Neuromodulation, 2016, 19, 161-170.	0.8	6
90	PredictionÂof Homogeneous Earthen Slope Safety Factors Using the Forest and Tree Based Modelling. Geotechnical and Geological Engineering, 2021, 39, 2849-2862.	1.7	6

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91	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
92	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
93	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
94	Transcutaneous Recharge: A Comparison of Numerical Simulation to In Vivo Experiments. Neuromodulation, 2017, 20, 613-621.	0.8	5
95	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
96	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
97	Numerical Simulation of Microwave Ablation in the Human Liver. Processes, 2022, 10, 361.	2.8	5
98	Full-building radiation shielding for climate control in desert regions. International Journal of Sustainable Energy, 2007, 26, 167-177.	2.4	4
99	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
100	Briefing: Future climate projections allow engineering planning. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2017, 170, 54-57.	0.5	4
101	Integral properties of turbulent natural convection over a vertical flat plate. International Communications in Heat and Mass Transfer, 2021, 125, 105286.	5.6	4
102	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
103	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
104	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
105	Effect of slope on energy dissipation for flow over a stepped spillway. Water Science and Technology: Water Supply, 0, , .	2.1	4
106	Use of multi-lumen catheters to preserve injected stem cell viability and injectant dispersion. Cardiovascular Revascularization Medicine, 2017, 18, S49-S57.	0.8	3
107	Layered structure of turbulent natural convection over a vertical flat plate. International Journal of Heat and Mass Transfer, 2021, 181, 121866.	4.8	3
108	Discharge coefficients for ogee spillways. Water Science and Technology: Water Supply, 2022, 22, 5376-5392.	2.1	3

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109	Prediction of discharge coefficients for broad-crested weirs using expert systems. ISH Journal of Hydraulic Engineering, 2023, 29, 1-11.	2.1	3
110	Simulation of helically wrapped, compact heat exchangers. Journal of Renewable and Sustainable Energy, 2011, 3, 043120.	2.0	2
111	Intracoronary Injection of Medication From Multilumen Injection Catheters1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	2
112	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
113	Heat risks associated with synthetic athletic fields. International Journal of Hyperthermia, 2019, 36, 515-516.	2.5	2
114	Evaluation of variable speed pumps in pressurized water distribution systems. Applied Water Science, 2022, 12, 1.	5.6	2
115	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
116	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
117	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
118	Genetic algorithms for optimizing stepped spillways to maximize energy dissipation. Water Science and Technology: Water Supply, 0, , .	2.1	1
119	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
120	Enhancement of heat and mass transfer by herringbone microstructures in a simple shear flow. Physics of Fluids, 0, , .	4.0	1
121	Convective heat transfer enhancement versus disenhancement: Impact of fluid-mover characteristics. Applied Thermal Engineering, 2015, 90, 242-249.	6.0	0
122	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
123	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
124	Using cadaver temperatures to estimate time of death: A caseâ€specific numerical approach. Journal of Forensic Sciences, 2022, , .	1.6	0
125	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