

Imran Afgan

List of Publications by Year in descending order

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39
papers

1,047
citations

394421

19
h-index

414414

32
g-index

39
all docs

39
docs citations

39
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Large eddy simulation of the flow around single and two side-by-side cylinders at subcritical Reynolds numbers. <i>Physics of Fluids</i> , 2011, 23, .	4.0	118
2	Turbulent flow and loading on a tidal stream turbine by LES and RANS. <i>International Journal of Heat and Fluid Flow</i> , 2013, 43, 96-108.	2.4	104
3	Fluctuating loads on a tidal turbine due to velocity shear and turbulence: Comparison of CFD with field data. <i>Renewable Energy</i> , 2017, 112, 235-246.	8.9	76
4	Large eddy simulation of turbulent flow for wall mounted cantilever cylinders of aspect ratio 6 and 10. <i>International Journal of Heat and Fluid Flow</i> , 2007, 28, 561-574.	2.4	70
5	A simple sliding mesh interface procedure and its application to the CFD simulation of a tidal stream turbine. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 74, 250-269.	1.6	68
6	An extensive review of various technologies for enhancing the thermal and optical performances of parabolic trough collectors. <i>International Journal of Energy Research</i> , 2020, 44, 5117-5164.	4.5	65
7	Proper orthogonal decomposition and dynamic mode decomposition of jet in channel crossflow. <i>Nuclear Engineering and Design</i> , 2019, 344, 54-68.	1.7	41
8	Thermal performance evaluation of various nanofluids with non-uniform heating for parabolic trough collectors. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100769.	5.7	39
9	Flow over a flat plate with uniform inlet and incident coherent gusts. <i>Journal of Fluid Mechanics</i> , 2013, 720, 457-485.	3.4	33
10	A CFD study of flow quantities and heat transfer by changing a vertical to diameter ratio and horizontal to diameter ratio in inline tube banks using URANS turbulence models. <i>International Communications in Heat and Mass Transfer</i> , 2017, 89, 18-30.	5.6	31
11	Direct simulation of conjugate heat transfer of jet in channel crossflow. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 193-208.	4.8	28
12	Simulation of subcritical-Reynolds-number flow around four cylinders in square arrangement configuration using LES. <i>European Journal of Mechanics, B/Fluids</i> , 2019, 74, 111-122.	2.5	27
13	Direct numerical simulation of a low momentum round jet in channel crossflow. <i>Nuclear Engineering and Design</i> , 2017, 313, 273-284.	1.7	26
14	Thermal-Hydraulic Analysis of Parabolic Trough Collectors Using Straight Conical Strip Inserts with Nanofluids. <i>Nanomaterials</i> , 2021, 11, 853.	4.1	26
15	Orthogonal Blade-Vortex Interaction on a Helicopter Tail Rotor. <i>AIAA Journal</i> , 2008, 46, 1476-1489.	2.6	24
16	Turbulent length scales and budgets of Reynolds stress-transport for open-channel flows; friction Reynolds numbers $Re_{\tau} = 150, 400$ and 1020. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 36-50.	1.7	24
17	Numerical Simulations of Flow and Heat Transfer in a Wall-Bounded Pin Matrix. <i>Flow, Turbulence and Combustion</i> , 2020, 104, 19-44.	2.6	21
18	Assessment and Evaluation of the Thermal Performance of Various Working Fluids in Parabolic Trough Collectors of Solar Thermal Power Plants under Non-Uniform Heat Flux Distribution Conditions. <i>Energies</i> , 2020, 13, 3776.	3.1	21

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19	Stochastic response of the laminar flow past a flat plate under uncertain inflow conditions. International Journal of Computational Fluid Dynamics, 2012, 26, 101-117.	1.2	19
20	Numerical simulation of generic side mirror of a car using large eddy simulation with polyhedral meshes. International Journal for Numerical Methods in Fluids, 2008, 56, 1107-1113.	1.6	18
21	Effect of various multiple strip inserts and nanofluids on the thermal-hydraulic performances of parabolic trough collectors. Applied Thermal Engineering, 2022, 201, 117798.	6.0	18
22	Predictions of Turbulent Flow for the Impeller of a NASA Low-Speed Centrifugal Compressor. Journal of Turbomachinery, 2010, 132, .	1.7	17
23	A Dual-Grid Hybrid RANS/LES Model for Under-Resolved Near-Wall Regions and its Application to Heated and Separating Flows. Flow, Turbulence and Combustion, 2020, 104, 835-859.	2.6	17
24	Computational fluid dynamics for ameliorating oil recovery using silicon-based nanofluids and ethanol in oil-wet reservoirs. Energy Reports, 2020, 6, 3023-3035.	5.1	16
25	A Numerical Approach to Investigate the Impact of Acid-Asphaltene Sludge Formation on Wormholing During Carbonate Acidizing. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	16
26	Geochemical Investigation of CO2 Injection in Oil and Gas Reservoirs of Middle East to Estimate the Formation Damage and Related Oil Recovery. Energies, 2021, 14, 7676.	3.1	14
27	A dual-mesh hybrid RANS-LES simulation of the buoyant flow in a differentially heated square cavity with an improved resolution criterion. Computers and Fluids, 2021, 224, 104949.	2.5	11
28	Investigating the impact of velocity fluctuations and compressibility to aerodynamic efficiency of a fixed-wing aircraft. Results in Physics, 2020, 18, 103263.	4.1	9
29	Geochemical investigation of electrical conductivity and electrical double layer based wettability alteration during engineered water injection in carbonates. Journal of Petroleum Science and Engineering, 2022, 215, 110627.	4.2	9
30	Geochemical Modeling of Engineered Water Injection in Carbonates Under Harsh Conditions: New Insights With Ionic Adsorption. Journal of Energy Resources Technology, Transactions of the ASME, 2023, 145, .	2.3	9
31	Investigation of Water Composition on Formation Damage and Related Energy Recovery from Geothermal Reservoirs: Geochemical and Geomechanics Insights. Energies, 2021, 14, 7415.	3.1	7
32	Influence of corium temperature, concrete composition and water injection time on concrete ablation during MCCI: New insights. Progress in Nuclear Energy, 2022, 144, 104102.	2.9	7
33	A dual-mesh hybrid Reynolds-averaged Navier-Stokes/Large eddy simulation study of the buoyant flow between coaxial cylinders. Nuclear Engineering and Design, 2022, 393, 111789.	1.7	5
34	Large-Eddy Simulation of a 3-bladed horizontal axis tidal stream turbine: comparisons to RANS and experiments. , 2012, , .		3
35	Unsteady RANS and Large Eddy Simulation of the flow and heat transfer in a wall bounded pin matrix. , 2012, , .		3
36	Thermochemical Modeling of Metal Composition and Its Impact on the Molten Corium-Concrete Interaction: New Insights with Sensitivity Analysis. Energies, 2022, 15, 3387.	3.1	3

#	ARTICLE	IF	CITATIONS
37	Low speed aerodynamic characteristics of non-slender delta wing at low angles of attack. AEJ - Alexandria Engineering Journal, 2022, 61, 9427-9435.	6.4	2
38	Laminarization of Internal Flows Under the Combined Effect of Strong Curvature and Rotation. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	1
39	DNS of a jet in cross flow with passive scalar mixing. , 2015, , .		1