

# 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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	Turbulent length scales and budgets of Reynolds stress-transport for open-channel flows; friction Reynolds numbers $Re_{\tau} = 150, 400$ and $1020$ . Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 36-50.	1.7	24
10	Thermal-Hydraulic Analysis of Parabolic Trough Collectors Using Straight Conical Strip Inserts with Nanofluids. Nanomaterials, 2021, 11, 853.	4.1	26
11	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
12	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
13	Geochemical Investigation of CO <sub>2</sub> 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
14	Numerical Simulations of Flow and Heat Transfer in a Wall-Bounded Pin Matrix. Flow, Turbulence and Combustion, 2020, 104, 19-44.	2.6	21
15	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
16	Thermal performance evaluation of various nanofluids with non-uniform heating for parabolic trough collectors. Case Studies in Thermal Engineering, 2020, 22, 100769.	5.7	39
17	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
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. Energies, 2020, 13, 3776.	3.1	21

#	ARTICLE	IF	CITATIONS
19	Computational fluid dynamics for ameliorating oil recovery using silicon-based nanofluids and ethanol in oil-wet reservoirs. <i>Energy Reports</i> , 2020, 6, 3023-3035.	5.1	16
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	DNS of a jet in cross flow with passive scalar mixing. , 2015, , .		1
28	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
29	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
30	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
31	Stochastic response of the laminar flow past a flat plate under uncertain inflow conditions. <i>International Journal of Computational Fluid Dynamics</i> , 2012, 26, 101-117.	1.2	19
32	Large-Eddy Simulation of a 3-bladed horizontal axis tidal stream turbine: comparisons to RANS and experiments. , 2012, , .		3
33	Unsteady RANS and Large Eddy Simulation of the flow and heat transfer in a wall bounded pin matrix. , 2012, , .		3
34	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
35	Predictions of Turbulent Flow for the Impeller of a NASA Low-Speed Centrifugal Compressor. <i>Journal of Turbomachinery</i> , 2010, 132, .	1.7	17
36	Numerical simulation of generic side mirror of a car using large eddy simulation with polyhedral meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 1107-1113.	1.6	18

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37	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
38	Orthogonal Blade-Vortex Interaction on a Helicopter Tail Rotor. AIAA Journal, 2008, 46, 1476-1489.	2.6	24
39	Large eddy simulation of turbulent flow for wall mounted cantilever cylinders of aspect ratio 6 and 10. International Journal of Heat and Fluid Flow, 2007, 28, 561-574.	2.4	70