

# Amir Nejat

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,152  
citations

687363

13  
h-index

642732

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugate heat transfer investigation of impingement cooling for ribbed internal passage of a turbine vane. <i>International Journal of Thermal Sciences</i> , 2022, 178, 107589.	4.9	6
2	Investigating the aeroelasticity effects on aeroacoustics and aerodynamics of a MW-class HAWT. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 213, 104617.	3.9	5
3	Numerical modeling of aeroacoustic characteristics of different savonius blade profiles. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 3349-3369.	2.8	8
4	Ribbed channel heat transfer enhancement of an internally cooled turbine vane using cooling conjugate heat transfer simulation. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100641.	2.7	12
5	Flow Characteristics of Curved Rotor Stator Systems Using Large Eddy Simulation. <i>Flow, Turbulence and Combustion</i> , 2019, 103, 111-140.	2.6	4
6	Shape optimization of a centrifugal blood pump by coupling CFD with metamodel-assisted genetic algorithm. <i>Journal of Artificial Organs</i> , 2019, 22, 29-36.	0.9	22
7	Multi-Objective Genetic Algorithm Assisted by an Artificial Neural Network Metamodel for Shape Optimization of a Centrifugal Blood Pump. <i>Artificial Organs</i> , 2019, 43, E76-E93.	1.9	21
8	Numerical investigation of fluid flow in a rotor-stator cavity with curved rotor disk. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	7
9	Three-Dimensional Numerical Simulations of Aspiration Process: Evaluation of Two Penumbra Aspiration Catheters Performance. <i>Artificial Organs</i> , 2018, 42, E406-E419.	1.9	14
10	Conceptual design and performance analysis of a novel flexible-valve micropump using magneto-fluid-solid interaction. <i>Smart Materials and Structures</i> , 2017, 26, 055036.	3.5	20
11	Aero-acoustics prediction of a vertical axis wind turbine using Large Eddy Simulation and acoustic analogy. <i>Energy</i> , 2015, 88, 711-717.	8.8	72
12	Aerodynamic noise prediction of a Horizontal Axis Wind Turbine using Improved Delayed Detached Eddy Simulation and acoustic analogy. <i>Energy Conversion and Management</i> , 2015, 99, 210-220.	9.2	92
13	The aerodynamic design evaluation of a blended-wing-body configuration. <i>Aerospace Science and Technology</i> , 2015, 43, 96-110.	4.8	30
14	Airfoil shape optimization using improved Multiobjective Territorial Particle Swarm algorithm with the objective of improving stall characteristics. <i>Structural and Multidisciplinary Optimization</i> , 2014, 49, 953-967.	3.5	18
15	Unsteady pulsating characteristics of the fluid flow through a sudden expansion microvalve. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 623-637.	2.2	9
16	Numerical study of mixing and heat transfer in mixed electroosmotic/pressure driven flow through T-shaped microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 565-580.	4.8	50
17	A Critical Study of the Compressible Lattice Boltzmann Methods for Riemann Problem. <i>Journal of Scientific Computing</i> , 2013, 54, 1-20.	2.3	7
18	A high-order Monte Carlo algorithm for the direct simulation of Boltzmann equation. <i>Journal of Computational Physics</i> , 2012, 231, 4578-4596.	3.8	5

#	ARTICLE	IF	CITATIONS
19	A Newton-Krylov finite volume algorithm for the power-law non-Newtonian fluid flow using pseudo-compressibility technique. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1158-1172.	2.4	16
20	Lattice Boltzmann simulation of non-Newtonian flows past confined cylinders. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 689-697.	2.4	51
21	A Newton-Krylov Type Algorithm for an Incompressible Navier-Stokes Solver Using Pseudo Compressibility Technique. , 2010, , .		2
22	Obtaining and Verifying High-Order Unstructured Finite Volume Solutions to the Euler Equations. AIAA Journal, 2009, 47, 2105-2120.	2.6	323
23	Effect of discretization order on preconditioning and convergence of a high-order unstructured Newton-GMRES solver for the Euler equations. Journal of Computational Physics, 2008, 227, 2366-2386.	3.8	35
24	A high-order accurate unstructured finite volume Newton-Krylov algorithm for inviscid compressible flows. Journal of Computational Physics, 2008, 227, 2582-2609.	3.8	322