

# 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	Obtaining and Verifying High-Order Unstructured Finite Volume Solutions to the Euler Equations. AIAA Journal, 2009, 47, 2105-2120.	2.6	323
2	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
3	Aerodynamic noise prediction of a Horizontal Axis Wind Turbine using Improved Delayed Detached Eddy Simulation and acoustic analogy. Energy Conversion and Management, 2015, 99, 210-220.	9.2	92
4	Aero-acoustics prediction of a vertical axis wind turbine using Large Eddy Simulation and acoustic analogy. Energy, 2015, 88, 711-717.	8.8	72
5	Lattice Boltzmann simulation of non-Newtonian flows past confined cylinders. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 689-697.	2.4	51
6	Numerical study of mixing and heat transfer in mixed electroosmotic/pressure driven flow through T-shaped microchannels. International Journal of Heat and Mass Transfer, 2014, 75, 565-580.	4.8	50
7	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
8	The aerodynamic design evaluation of a blended-wing-body configuration. Aerospace Science and Technology, 2015, 43, 96-110.	4.8	30
9	Shape optimization of a centrifugal blood pump by coupling CFD with metamodel-assisted genetic algorithm. Journal of Artificial Organs, 2019, 22, 29-36.	0.9	22
10	Multi-Objective Genetic Algorithm Assisted by an Artificial Neural Network Metamodel for Shape Optimization of a Centrifugal Blood Pump. Artificial Organs, 2019, 43, E76-E93.	1.9	21
11	Conceptual design and performance analysis of a novel flexible-valve micropump using magneto-fluid-solid interaction. Smart Materials and Structures, 2017, 26, 055036.	3.5	20
12	Airfoil shape optimization using improved Multiobjective Territorial Particle Swarm algorithm with the objective of improving stall characteristics. Structural and Multidisciplinary Optimization, 2014, 49, 953-967.	3.5	18
13	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
14	Three-Dimensional Numerical Simulations of Aspiration Process: Evaluation of Two Penumbra Aspiration Catheters Performance. Artificial Organs, 2018, 42, E406-E419.	1.9	14
15	Ribbed channel heat transfer enhancement of an internally cooled turbine vane using cooling conjugate heat transfer simulation. Thermal Science and Engineering Progress, 2020, 19, 100641.	2.7	12
16	Unsteady pulsating characteristics of the fluid flow through a sudden expansion microvalve. Microfluidics and Nanofluidics, 2014, 17, 623-637.	2.2	9
17	Numerical modeling of aeroacoustic characteristics of different savonius blade profiles. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 3349-3369.	2.8	8
18	A Critical Study of the Compressible Lattice Boltzmann Methods for Riemann Problem. Journal of Scientific Computing, 2013, 54, 1-20.	2.3	7

#	ARTICLE	IF	CITATIONS
19	Numerical investigation of fluid flow in a rotor-stator cavity with curved rotor disk. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	7
20	Conjugate heat transfer investigation of impingement cooling for ribbed internal passage of a turbine vane. International Journal of Thermal Sciences, 2022, 178, 107589.	4.9	6
21	A high-order Monte Carlo algorithm for the direct simulation of Boltzmann equation. Journal of Computational Physics, 2012, 231, 4578-4596.	3.8	5
22	Investigating the aeroelasticity effects on aeroacoustics and aerodynamics of a MW-class HAWT. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 213, 104617.	3.9	5
23	Flow Characteristics of Curved Rotor Stator Systems Using Large Eddy Simulation. Flow, Turbulence and Combustion, 2019, 103, 111-140.	2.6	4
24	A Newton-Krylov Type Algorithm for an Incompressible Navier-Stokes Solver Using Pseudo Compressibility Technique. , 2010, , .		2