

Hosein Foroutan

List of Publications by Year in descending order

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34
papers

958
citations

567281

15
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526287

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43
all docs

43
docs citations

43
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	Description and evaluation of the Community Multiscale Air Quality (CMAQ) modeling system version 5.1. Geoscientific Model Development, 2017, 10, 1703-1732.	3.6	187
2	Oxidation of Silicon Carbide by O_2 and H_2O : A ReaxFF Reactive Molecular Dynamics Study, Part I. Journal of Physical Chemistry C, 2012, 116, 16111-16121.	3.1	177
3	Intercomparison of Small Unmanned Aircraft System (sUAS) Measurements for Atmospheric Science during the LAPSE-RATE Campaign. Sensors, 2019, 19, 2179.	3.8	88
4	Coupling of organic and inorganic aerosol systems and the effect on gas-particle partitioning in the southeastern US. Atmospheric Chemistry and Physics, 2018, 18, 357-370.	4.9	66
5	A partially-averaged Navier-Stokes model for the simulation of turbulent swirling flow with vortex breakdown. International Journal of Heat and Fluid Flow, 2014, 50, 402-416.	2.4	62
6	Development and evaluation of a physics-based windblown dust emission scheme implemented in the CMAQ modeling system. Journal of Advances in Modeling Earth Systems, 2017, 9, 585-608.	3.8	60
7	Coordinated Unmanned Aircraft System (UAS) and Ground-Based Weather Measurements to Predict Lagrangian Coherent Structures (LCSs). Sensors, 2018, 18, 4448.	3.8	43
8	Numerical analysis of pollutant dispersion around elongated buildings: An embedded large eddy simulation approach. Atmospheric Environment, 2018, 187, 117-130.	4.1	31
9	Influence of bromine and iodine chemistry on annual, seasonal, diurnal, and background ozone: CMAQ simulations over the Northern Hemisphere. Atmospheric Environment, 2019, 213, 395-404.	4.1	29
10	Flow in the Simplified Draft Tube of a Francis Turbine Operating at Partial Load-Part I: Simulation of the Vortex Rope. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	28
11	Flow in the Simplified Draft Tube of a Francis Turbine Operating at Partial Load-Part II: Control of the Vortex Rope. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	26
12	Unsteady Numerical Simulation of Flow in Draft Tube of a Hydroturbine Operating Under Various Conditions Using a Partially Averaged Navier-Stokes Model. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	18
13	How mobility restrictions policy and atmospheric conditions impacted air quality in the State of São Paulo during the COVID-19 outbreak. Environmental Research, 2021, 198, 111255.	7.5	18
14	Numerical Simulations of the Near-Field Region of Film Cooling Jets Under High Free Stream Turbulence: Application of RANS and Hybrid URANS/ Large Eddy Simulation Models. Journal of Heat Transfer, 2015, 137, .	2.1	16
15	Enhancements to AERMOD's building downwash algorithms based on wind-tunnel and Embedded-LES modeling. Atmospheric Environment, 2018, 179, 321-330.	4.1	16
16	Air Quality in Southeast Brazil during COVID-19 Lockdown: A Combined Satellite and Ground-Based Data Analysis. Atmosphere, 2021, 12, 583.	2.3	13
17	A new formulation of scale-adaptive simulation approach to predict complex wall-bounded shear flows. Journal of Turbulence, 2014, 15, 629-649.	1.4	11
18	A Systematic Analysis of the Salinity Effect on Air Bubbles Evolution: Laboratory Experiments in a Breaking Wave Analog. Journal of Geophysical Research: Oceans, 2019, 124, 7355-7374.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Improving the simulation of convective dust storms in regional to global models. Journal of Advances in Modeling Earth Systems, 2017, 9, 2046-2060.	3.8	8
20	Increasing Freshwater Salinity Impacts Aerosolized Bacteria. Environmental Science & Technology, 2021, 55, 5731-5741.	10.0	8
21	A Model for Simulation of Turbulent Flow With High Free Stream Turbulence Implemented in OpenFOAM®. Journal of Turbomachinery, 2013, 135, .	1.7	7
22	Pollution Transport Patterns Obtained Through Generalized Lagrangian Coherent Structures. Atmosphere, 2020, 11, 168.	2.3	6
23	Simulation of flow in a simplified draft tube: turbulence closure considerations. IOP Conference Series: Earth and Environmental Science, 2012, 15, 022020.	0.3	5
24	An axisymmetric model for draft tube flow at partial load. Journal of Hydrodynamics, 2016, 28, 195-205.	3.2	4
25	Adding four-dimensional data assimilation by analysis nudging to the Model for Prediction Across Scales " Atmosphere (version 4.0). Geoscientific Model Development, 2018, 11, 2897-2922.	3.6	4
26	Establishing the Suitability of the Model for Prediction Across Scales for Global Retrospective Air Quality Modeling. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033588.	3.3	4
27	Simulation of Flow Through Conical Diffusers With and Without Inlet Swirl Using CFD. , 2011, , .		3
28	Simulation of the Near-Field Region of Film Cooling Jets Using RANS and Hybrid URANS/LES Models. , 2014, , .		1
29	A Proof-of-Concept for Linking the Global Meteorological Model, MPAS-a with the Air Quality Model, CMAQ. Springer Proceedings in Complexity, 2020, , 35-40.	0.3	1
30	Analysis and Prevention of Vortex Rope Formation in the Draft Tube Cone of a Hydraulic Turbine. , 2012, , .		0
31	A Model for Simulation of Turbulent Flow With High Free Stream Turbulence Implemented in OpenFOAM. , 2012, , .		0
32	Development, Implementation, and Evaluation of a Physics-Based Windblown Dust Emission Model. Springer Proceedings in Complexity, 2018, , 571-577.	0.3	0
33	FIRST MOMENT CLOSURE MODELING OF FILM COOLING EFFECTIVENESS IN SINGLE ROW OF CYLINDRICAL HOLES. , 2009, , .		0
34	Analysis of Scale Adaptive Approaches Based on the Rotta Transport Equation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2015, , 287-298.	0.3	0