

Hosein Foroutan

List of Publications by Year in descending order

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papers

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567281

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43
all docs

43
docs citations

43
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing Freshwater Salinity Impacts Aerosolized Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 5731-5741.	10.0	8
2	Air Quality in Southeast Brazil during COVID-19 Lockdown: A Combined Satellite and Ground-Based Data Analysis. <i>Atmosphere</i> , 2021, 12, 583.	2.3	13
3	Establishing the Suitability of the Model for Prediction Across Scales for Global Retrospective Air Quality Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033588.	3.3	4
4	How mobility restrictions policy and atmospheric conditions impacted air quality in the State of São Paulo during the COVID-19 outbreak. <i>Environmental Research</i> , 2021, 198, 111255.	7.5	18
5	Pollution Transport Patterns Obtained Through Generalized Lagrangian Coherent Structures. <i>Atmosphere</i> , 2020, 11, 168.	2.3	6
6	A Proof-of-Concept for Linking the Global Meteorological Model, MPAS-a with the Air Quality Model, CMAQ. <i>Springer Proceedings in Complexity</i> , 2020, , 35-40.	0.3	1
7	Influence of bromine and iodine chemistry on annual, seasonal, diurnal, and background ozone: CMAQ simulations over the Northern Hemisphere. <i>Atmospheric Environment</i> , 2019, 213, 395-404.	4.1	29
8	A Systematic Analysis of the Salinity Effect on Air Bubbles Evolution: Laboratory Experiments in a Breaking Wave Analog. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7355-7374.	2.6	9
9	Intercomparison of Small Unmanned Aircraft System (sUAS) Measurements for Atmospheric Science during the LAPSE-RATE Campaign. <i>Sensors</i> , 2019, 19, 2179.	3.8	88
10	Enhancements to AERMOD's building downwash algorithms based on wind-tunnel and Embedded-LES modeling. <i>Atmospheric Environment</i> , 2018, 179, 321-330.	4.1	16
11	Coupling of organic and inorganic aerosol systems and the effect on gas-particle partitioning in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 357-370.	4.9	66
12	Development, Implementation, and Evaluation of a Physics-Based Windblown Dust Emission Model. <i>Springer Proceedings in Complexity</i> , 2018, , 571-577.	0.3	0
13	Adding four-dimensional data assimilation by analysis nudging to the Model for Prediction Across Scales - Atmosphere (version 4.0). <i>Geoscientific Model Development</i> , 2018, 11, 2897-2922.	3.6	4
14	Coordinated Unmanned Aircraft System (UAS) and Ground-Based Weather Measurements to Predict Lagrangian Coherent Structures (LCSs). <i>Sensors</i> , 2018, 18, 4448.	3.8	43
15	Numerical analysis of pollutant dispersion around elongated buildings: An embedded large eddy simulation approach. <i>Atmospheric Environment</i> , 2018, 187, 117-130.	4.1	31
16	Development and evaluation of a physics-based windblown dust emission scheme implemented in the CMAQ modeling system. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 585-608.	3.8	60
17	Improving the simulation of convective dust storms in regional-to-global models. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2046-2060.	3.8	8
18	Description and evaluation of the Community Multiscale Air Quality (CMAQ) modeling system version 5.1. <i>Geoscientific Model Development</i> , 2017, 10, 1703-1732.	3.6	187

#	ARTICLE	IF	CITATIONS
19	An axisymmetric model for draft tube flow at partial load. Journal of Hydrodynamics, 2016, 28, 195-205.	3.2	4
20	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
21	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
22	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
23	Simulation of the Near-Field Region of Film Cooling Jets Using RANS and Hybrid URANS/LES Models. , 2014, , .		1
24	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
25	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
26	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
27	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
28	A Model for Simulation of Turbulent Flow With High Free Stream Turbulence Implemented in OpenFOAM®. Journal of Turbomachinery, 2013, 135, .	1.7	7
29	Simulation of flow in a simplified draft tube: turbulence closure considerations. IOP Conference Series: Earth and Environmental Science, 2012, 15, 022020.	0.3	5
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	Oxidation of Silicon Carbide by O ₂ and H ₂ O: A ReaxFF Reactive Molecular Dynamics Study, Part I. Journal of Physical Chemistry C, 2012, 116, 16111-16121.	3.1	177
33	Simulation of Flow Through Conical Diffusers With and Without Inlet Swirl Using CFD. , 2011, , .		3
34	FIRST MOMENT CLOSURE MODELING OF FILM COOLING EFFECTIVENESS IN SINGLE ROW OF CYLINDRICAL HOLES. , 2009, , .		0