

Alessio Castorrini

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

304
citations

1040056

9
h-index

996975

15
g-index

25
all docs

25
docs citations

25
times ranked

181
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentally validated three-dimensional computational aerodynamics of wind turbine blade sections featuring leading edge erosion cavities. <i>Wind Energy</i> , 2022, 25, 168-189.	4.2	12
2	Multi-scale Navier-Stokes analysis of geometrically resolved erosion of wind turbine blade leading edges. <i>Journal of Physics: Conference Series</i> , 2022, 2265, 032102.	0.4	4
3	Machine learnt prediction method for rain erosion damage on wind turbine blades. <i>Wind Energy</i> , 2021, 24, 917-934.	4.2	8
4	Increasing spatial resolution of wind resource prediction using NWP and RANS simulation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 210, 104499.	3.9	20
5	Morphing of Reversible Axial Fan Blade: A FSI-FEM Study. , 2021, , .		0
6	Machine Learning Aided Prediction of Rain Erosion Damage on Wind Turbine Blade Sections. , 2021, , .		2
7	Machine learning-enabled prediction of wind turbine energy yield losses due to general blade leading edge erosion. <i>Energy Conversion and Management</i> , 2021, 245, 114567.	9.2	26
8	FSI analysis and simulation of flexible blades in a Wells turbine for wave energy conversion. <i>E3S Web of Conferences</i> , 2020, 197, 11008.	0.5	1
9	Computational analysis of particle-laden-airflow erosion and experimental verification. <i>Computational Mechanics</i> , 2020, 65, 1549-1565.	4.0	11
10	Simulation of the Deposit Evolution on a Fan Blade for Tunnel Ventilation. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	1.1	4
11	Unsteady Flow Simulation of an Axial Fan for Dry Cooling in a CSP Plant Using the Variational Multiscale Method. , 2020, , .		2
12	Integration of Computational Fluid-Particle Dynamics Techniques for the Instantaneous Estimation of Particle Erosion Damage on Axial Fan Blade Sections. , 2020, , .		0
13	Structural Analysis of a Gas Turbine Axial Compressor Blade Eroded by Online Water Washing. , 2020, , .		1
14	Numerical Simulation of the Blade Aging Process in an Induced Draft Fan Due to Long Time Exposition to Fly Ash Particles. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	13
15	A stabilized ALE method for computational fluid-structure interaction analysis of passive morphing in turbomachinery. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 967-994.	3.3	40
16	Computational analysis of performance deterioration of a wind turbine blade strip subjected to environmental erosion. <i>Computational Mechanics</i> , 2019, 64, 1133-1153.	4.0	37
17	Simulation of the Deposit Evolution on a Fan Blade for Tunnel Ventilation. , 2019, , .		1
18	Numerical Testing of a Trailing Edge Passive Morphing Control for Large Axial Fan Blades. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	1.1	2

#	ARTICLE	IF	CITATIONS
19	Numerical Simulation of the Blade Aging Process in an Induced Draft Fan due to Long Time Exposition to Fly Ash Particles. , 2018, , .		2
20	Numerical Simulation With Adaptive Boundary Method for Predicting Time Evolution of Erosion Processes. , 2017, , .		8
21	Computational analysis of wind-turbine blade rain erosion. Computers and Fluids, 2016, 141, 175-183.	2.5	61
22	SUPG/PSPG Computational Analysis of Rain Erosion in Wind-Turbine Blades. Modeling and Simulation in Science, Engineering and Technology, 2016, , 77-96.	0.6	14
23	Numerical characterization of helicopter noise hemispheres. Aerospace Science and Technology, 2016, 52, 18-28.	4.8	16
24	Modeling of Rain Drop Erosion in a Multi-MW Wind Turbine. , 2015, , .		18
25	MORPHING OF REVERSIBLE AXIAL FAN BLADE: A FSI-FEM STUDY. Journal of Turbomachinery, 0, , 1-9.	1.7	1