Svetlana V Poroseva

List of Publications by Year
in descending order

53	507	1040056 9	794594 19
papers	citations	h-index	g-index

54	54	54	487
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of Two Benchmark Cases: 2DB and 2DML from Turbulence Modeling Resource using STAR-CCM+ and OpenFOAM. , 2022, , .		1
2	Three-Dimensional Simulations of a Shock-Gas Column Interaction. , 2022, , .		1
3	Dimensional Effects of Polymer Piezoelectric Films for Wind Energy Harvesting. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	2
4	Application of the RANS-DNS Framework to Post-processing the Mixing Layer DNS Data. , 2022, , .		0
5	On the Contribution of Data Errors in DNS Data-Driven VPG Correlation Models. , 2022, , .		2
6	Simulation of aerosol transmission on a Boeing 737 airplane with intervention measures for COVID-19 mitigation. Physics of Fluids, 2021, 33, 033312.	4.0	71
7	On the shape of cicadaâ€™s wing leading-edge cross section. Scientific Reports, 2021, 11, 7763.	3.3	2
8	Analysis of high-order velocity moments in a strained channel flow. International Journal of Heat and Fluid Flow, 2021, 89, 108796.	2.4	3
9	Simulations of the shock-driven Kelvinâ€“Helmholtz instability in inclined gas curtains. Physics of Fluids, 2021, 33, .	4.0	10
10	A Benchmark Case for the Grid Survivability Analysis. , 2021, , .		1
11	Numerical investigation of aerosol transport in a classroom with relevance to COVID-19. Physics of Fluids, 2020, 32, 103311.	4.0	172
12	Experimental Drag Study of the Bio-inspired Body Shape. , 2020, , .		2
13	Free-Vortex Wake and CFD Simulation of a Small Rotor for a Quadcopter at Hover. , 2019, , .		1
14	Experimental study of the effects of bio-inspired blades and 3D printing on the performance of a small propeller. , 2018, , .		3
15	Analysis of uncertainty sources in DNS of a turbulent mixing layer using Nek5000. , 2018, , .		1
16	Interaction of Wind Turbine Wakes under Various Atmospheric Conditions. Energies, 2018, 11, 1442.	3.1	4
17	DNS of a Spatially Developing Turbulent Mixing Layer from Co-flowing Laminar Boundary Layers. , 2017, , .		1
18	On the accuracy of RANS simulations with DNS data. Physics of Fluids, 2016, 28, .	4.0	35

#	Article	IF	Citations
19	The Effect of the DNS Data Averaging Time on the Accuracy of RANS-DNS Simulations. , 2016, , .		2
20	Computational Analysis of a Flow Around Two-Dimensional Streamlined Bodies with OpenFOAM. , 2015, , .		5
21	RANS Simulations of a Channel Flow with a New Velocity/Pressure-Gradient Model. , 2015, , .		6
22	Computational Analysis of the Blade Number Effect on the Performance of a Ducted Propeller. , 2015, , .		1
23	Simulations of Incompressible Separated Turbulent Flows around Two-Dimensional Bodies with URANS Models in OpenFOAM. , 2015, , .		6
24	Application of the â€œSelfishâ€•Algorithm for the Survivability Analysis of Systems with Multiple Loads. , 2014, , .		1
25	The Effect of a Pressure-Containing Correlation Model on Near-Wall Flow Simulations With Reynolds Stress Transport Models. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	3
26	On the Accuracy of RANS Simulations of 2D Boundary Layers with OpenFOAM. , 2014, , .		10
27	â€œSelfishâ€•algorithm for reducing the computational cost of the network survivability analysis. Optimization and Engineering, 2014, 15, 381-400.	2.4	0
28	Computational Analysis of a Tip Vortex Structure Shed from a Bio-inspired Blade. , 2014, , .		7
29	Velocity/Pressure-Gradient Correlations in a FORANS Approach to Turbulence Modeling. , 2014, , .		10
30	Wake Flow Simulations for a Mid-Sized Rim Driven Wind Turbine. , 2014, , .		1
31	Near-Wake Flow Simulations for a Mid-Sized Rim Driven Wind Turbine. , 2013, , .		1
32	Integrating heterogeneous distributed energy resources to manage intermittent power at low cost. , 2013, , .		4
33	Flow Simulation Around a Rim-Driven Wind Turbine and in Its Wake. , 2013, , .		3
34	Survivability Analysis of the Satellite Electrical Power Subsystem Architecture. , 2013, , .		2
35	Sensitivity Study of Turbulent Flow Simulations over a Rotating Disk. , 2012, , .		2
36	Modeling power grids. Physics Procedia, 2012, 34, 119-123.	1.2	7

#	Article	IF	Citations
37	Uncertainty Quantification in the Horizontal Projection of Flight Plan Trajectories Using Evidence Theory. , 2011, , .		0
38	On Development of Computational Tools for Evaluating System Survivability Due to Its Topology.. , 2011, , .		0
39	Floridian high-voltage power-grid network partitioning and cluster optimization using simulated annealing. Physics Procedia, 2011, 15, 2-6.	1.2	14
40	Spectral matrix methods for partitioning power grids: Applications to the Italian and Floridian high-voltage networks. Physics Procedia, 2010, 4, 125-129.	1.2	11
41	Computational analysis of network survivability with application to power systems. Physics Procedia, 2010, 4, 113-117.	1.2	8
42	Multimodel Approach Based on Evidence Theory for Forecasting Tropical Cyclone Tracks. Monthly Weather Review, 2010, 138, 405-420.	1.4	4
43	Automated Graph-Based Methodology for Fault Detection and Location in Power Systems. IEEE Transactions on Power Delivery, 2010, 25, 638-646.	4.3	29
44	Designing Power System Topologies of Enhanced Survivability. , 2010, , .		6
45	Assessment of Impact of Modeling Simplifications for a Medium Voltage DC Shipboard Power System. , 2010, , .		1
46	Algorithm development for evaluating the IPS survivability due to its topology. , 2009, , .		7
47	Application of evidence theory to quantify uncertainty in hurricane/typhoon track forecasts. Meteorology and Atmospheric Physics, 2007, 97, 149-169.	2.0	7
48	Improving the Predictive Capability of Turbulence Models Using Evidence Theory. AIAA Journal, 2006, 44, 1220-1228.	2.6	11
49	On Improving the Predictive Capability of Turbulence Models Using Evidence Theory. , 2005, , .		1
50	Realizability of the Reynolds stress and rapid pressure-strain correlation in turbulence modelling. Journal of Turbulence, 2004, 5, .	1.4	7
51	Anaytical Study of the Oscillating Channel Flow Solution With Application to the Turbulent Case. , 2003, , 1073.		0
52	Modeling turbulent diffusion in a rotating cylindrical pipe flow. International Journal of Heat and Fluid Flow, 1999, 20, 341-348.	2.4	18
53	Poster: Q Criterion Isosurface Visualizations of a Zero-Pressure-Gradient Turbulent Boundary Layer. , 0, , .		0