

# Svetlana V Poroseva

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

507  
citations

1039406

9  
h-index

794141

19  
g-index

54  
all docs

54  
docs citations

54  
times ranked

487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of aerosol transport in a classroom with relevance to COVID-19. <i>Physics of Fluids</i> , 2020, 32, 103311.	1.6	172
2	Simulation of aerosol transmission on a Boeing 737 airplane with intervention measures for COVID-19 mitigation. <i>Physics of Fluids</i> , 2021, 33, 033312.	1.6	71
3	On the accuracy of RANS simulations with DNS data. <i>Physics of Fluids</i> , 2016, 28, .	1.6	35
4	Automated Graph-Based Methodology for Fault Detection and Location in Power Systems. <i>IEEE Transactions on Power Delivery</i> , 2010, 25, 638-646.	2.9	29
5	Modeling turbulent diffusion in a rotating cylindrical pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 1999, 20, 341-348.	1.1	18
6	Floridian high-voltage power-grid network partitioning and cluster optimization using simulated annealing. <i>Physics Procedia</i> , 2011, 15, 2-6.	1.2	14
7	Improving the Predictive Capability of Turbulence Models Using Evidence Theory. <i>AIAA Journal</i> , 2006, 44, 1220-1228.	1.5	11
8	Spectral matrix methods for partitioning power grids: Applications to the Italian and Floridian high-voltage networks. <i>Physics Procedia</i> , 2010, 4, 125-129.	1.2	11
9	On the Accuracy of RANS Simulations of 2D Boundary Layers with OpenFOAM. , 2014, , .		10
10	Velocity/Pressure-Gradient Correlations in a FORANS Approach to Turbulence Modeling. , 2014, , .		10
11	Simulations of the shock-driven Kelvin-Helmholtz instability in inclined gas curtains. <i>Physics of Fluids</i> , 2021, 33, .	1.6	10
12	Computational analysis of network survivability with application to power systems. <i>Physics Procedia</i> , 2010, 4, 113-117.	1.2	8
13	Realizability of the Reynolds stress and rapid pressure-strain correlation in turbulence modelling. <i>Journal of Turbulence</i> , 2004, 5, .	0.5	7
14	Application of evidence theory to quantify uncertainty in hurricane/typhoon track forecasts. <i>Meteorology and Atmospheric Physics</i> , 2007, 97, 149-169.	0.9	7
15	Algorithm development for evaluating the IPS survivability due to its topology. , 2009, , .		7
16	Modeling power grids. <i>Physics Procedia</i> , 2012, 34, 119-123.	1.2	7
17	Computational Analysis of a Tip Vortex Structure Shed from a Bio-inspired Blade. , 2014, , .		7
18	Designing Power System Topologies of Enhanced Survivability. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
19	RANS Simulations of a Channel Flow with a New Velocity/Pressure-Gradient Model. , 2015, , .		6
20	Simulations of Incompressible Separated Turbulent Flows around Two-Dimensional Bodies with URANS Models in OpenFOAM. , 2015, , .		6
21	Computational Analysis of a Flow Around Two-Dimensional Streamlined Bodies with OpenFOAM. , 2015, , .		5
22	Multimodel Approach Based on Evidence Theory for Forecasting Tropical Cyclone Tracks. Monthly Weather Review, 2010, 138, 405-420.	0.5	4
23	Integrating heterogeneous distributed energy resources to manage intermittent power at low cost. , 2013, , .		4
24	Interaction of Wind Turbine Wakes under Various Atmospheric Conditions. Energies, 2018, 11, 1442.	1.6	4
25	Flow Simulation Around a Rim-Driven Wind Turbine and in Its Wake. , 2013, , .		3
26	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, .	0.8	3
27	Experimental study of the effects of bio-inspired blades and 3D printing on the performance of a small propeller. , 2018, , .		3
28	Analysis of high-order velocity moments in a strained channel flow. International Journal of Heat and Fluid Flow, 2021, 89, 108796.	1.1	3
29	Sensitivity Study of Turbulent Flow Simulations over a Rotating Disk. , 2012, , .		2
30	Survivability Analysis of the Satellite Electrical Power Subsystem Architecture. , 2013, , .		2
31	The Effect of the DNS Data Averaging Time on the Accuracy of RANS-DNS Simulations. , 2016, , .		2
32	Experimental Drag Study of the Bio-inspired Body Shape. , 2020, , .		2
33	On the shape of cicada's wing leading-edge cross section. Scientific Reports, 2021, 11, 7763.	1.6	2
34	Dimensional Effects of Polymer Piezoelectric Films for Wind Energy Harvesting. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	2
35	On the Contribution of Data Errors in DNS Data-Driven VPC Correlation Models. , 2022, , .		2
36	On Improving the Predictive Capability of Turbulence Models Using Evidence Theory. , 2005, , .		1

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37	Assessment of Impact of Modeling Simplifications for a Medium Voltage DC Shipboard Power System. , 2010, , .		1
38	Near-Wake Flow Simulations for a Mid-Sized Rim Driven Wind Turbine. , 2013, , .		1
39	Application of the "Selfish" Algorithm for the Survivability Analysis of Systems with Multiple Loads. , 2014, , .		1
40	Computational Analysis of the Blade Number Effect on the Performance of a Ducted Propeller. , 2015, , .		1
41	DNS of a Spatially Developing Turbulent Mixing Layer from Co-flowing Laminar Boundary Layers. , 2017, , .		1
42	Analysis of uncertainty sources in DNS of a turbulent mixing layer using Nek5000. , 2018, , .		1
43	Free-Vortex Wake and CFD Simulation of a Small Rotor for a Quadcopter at Hover. , 2019, , .		1
44	Wake Flow Simulations for a Mid-Sized Rim Driven Wind Turbine. , 2014, , .		1
45	Simulation of Two Benchmark Cases: 2DB and 2DML from Turbulence Modeling Resource using STAR-CCM+ and OpenFOAM. , 2022, , .		1
46	Three-Dimensional Simulations of a Shock-Gas Column Interaction. , 2022, , .		1
47	A Benchmark Case for the Grid Survivability Analysis. , 2021, , .		1
48	Analytical Study of the Oscillating Channel Flow Solution With Application to the Turbulent Case. , 2003, , 1073.		0
49	Uncertainty Quantification in the Horizontal Projection of Flight Plan Trajectories Using Evidence Theory. , 2011, , .		0
50	On Development of Computational Tools for Evaluating System Survivability Due to Its Topology.. , 2011, , .		0
51	"Selfish" algorithm for reducing the computational cost of the network survivability analysis. Optimization and Engineering, 2014, 15, 381-400.	1.3	0
52	Poster: Q Criterion Isosurface Visualizations of a Zero-Pressure-Gradient Turbulent Boundary Layer. , 0, , .		0
53	Application of the RANS-DNS Framework to Post-processing the Mixing Layer DNS Data. , 2022, , .		0