

Jason Jonkman

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,000
citations

840776

11
h-index

839539

18
g-index

68
all docs

68
docs citations

68
times ranked

604
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of wind turbine wakes under high thrust coefficient. <i>Wind Energy</i> , 2022, 25, 605-617.	4.2	9
2	OC6 Phase II: Integration and verification of a new soil-structure interaction model for offshore wind design. <i>Wind Energy</i> , 2022, 25, 793-810.	4.2	0
3	OC6 Phase Ia: CFD Simulations of the Free-Decay Motion of the DeepCwind Semisubmersible. <i>Energies</i> , 2022, 15, 389.	3.1	13
4	OC6 phase I: Improvements to the OpenFAST predictions of nonlinear, low-frequency responses of a floating offshore wind turbine platform. <i>Renewable Energy</i> , 2022, 187, 282-301.	8.9	21
5	A multipurpose lifting-line flow solver for arbitrary wind energy concepts. <i>Wind Energy Science</i> , 2022, 7, 455-467.	3.3	8
6	Influence of wind turbine design parameters on linearized physics-based models in OpenFAST. <i>Wind Energy Science</i> , 2022, 7, 559-571.	3.3	5
7	Wind turbine response in waked inflow: A modelling benchmark against full-scale measurements. <i>Renewable Energy</i> , 2022, 191, 868-887.	8.9	7
8	FAST.Farm development and validation of structural load prediction against large eddy simulations. <i>Wind Energy</i> , 2021, 24, 428-449.	4.2	13
9	Investigation of Nonlinear Difference-Frequency Wave Excitation on a Semisubmersible Offshore-Wind Platform With Bichromatic-Wave CFD Simulations. , 2021, , .		3
10	Functional Requirements for the WEIS Toolset to Enable Controls Co-Design of Floating Offshore Wind Turbines. , 2021, , .		5
11	FAST.Farm load validation for single wake situations at alpha ventus. <i>Wind Energy Science</i> , 2021, 6, 1247-1262.	3.3	13
12	Validation of Numerical Models of the Offshore Wind Turbine From the Alpha Ventus Wind Farm Against Full-Scale Measurements Within OC5 Phase III. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	1.2	8
13	Uncertainty Assessment of CFD Investigation of the Nonlinear Difference-Frequency Wave Loads on a Semisubmersible FOWT Platform. <i>Sustainability</i> , 2021, 13, 64.	3.2	15
14	OC6 Phase Ib: Validation of the CFD predictions of difference-frequency wave excitation on a FOWT semisubmersible. <i>Ocean Engineering</i> , 2021, 241, 110026.	4.3	20
15	Modeling the TetraSpar Floating Offshore Wind Turbine Foundation as a Flexible Structure in OrcaFlex and OpenFAST. <i>Energies</i> , 2021, 14, 7866.	3.1	11
16	Multimodel validation of single wakes in neutral and stratified atmospheric conditions. <i>Wind Energy</i> , 2020, 23, 2027-2055.	4.2	46
17	Bichromatic Wave Selection for Validation of the Difference-Frequency Transfer Function for the OC6 Validation Campaign. , 2019, , .		4
18	Validation of Numerical Models of the Offshore Wind Turbine From the Alpha Ventus Wind Farm Against Full-Scale Measurements Within OC5 Phase III. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Hydrodynamic Analysis of a Suspended Cylinder Under Regular Wave Loading Based on Computational Fluid Dynamics. , 2019, , .		1
20	Development of performance specifications for hybrid modeling of floating wind turbines in wave basin tests. Journal of Ocean Engineering and Marine Energy, 2018, 4, 1-23.	1.7	26
21	Verification of a Numerical Model of the Offshore Wind Turbine From the Alpha Ventus Wind Farm Within OC5 Phase III. , 2018, , .		10
22	Assessment of Experimental Uncertainty for a Floating Wind Semisubmersible Under Hydrodynamic Loading. , 2018, , .		6
23	Effect of Second-Order and Fully Nonlinear Wave Kinematics on a Tension-Leg-Platform Wind Turbine in Extreme Wave Conditions. , 2017, , .		3
24	The creation of a comprehensive metocean data set for offshore wind turbine simulations. Wind Energy, 2016, 19, 1151-1159.	4.2	48
25	Computation of Nonlinear Hydrodynamic Loads on Floating Wind Turbines Using Fluid-Impulse Theory. , 2015, , .		8
26	Validation of Hydrodynamic Load Models Using CFD for the OC4-DeepCwind Semisubmersible. , 2015, , .		13
27	Computation of Wave Loads Under Multidirectional Sea States for Floating Offshore Wind Turbines. , 2014, , .		6
28	Comparison of Second-Order Loads on a Semisubmersible Floating Wind Turbine. , 2014, , .		13
29	Comparison of Hydrodynamic Load Predictions Between Reduced Order Engineering Models and Computational Fluid Dynamics for the OC4-DeepCwind Semi-Submersible. , 2014, , .		14
30	Offshore Code Comparison Collaboration Continuation Within IEA Wind Task 30: Phase II Results Regarding a Floating Semisubmersible Wind System. , 2014, , .		58
31	Designing and Integrating Wind Power Laboratory Experiments in Power and Energy Systems Courses. IEEE Transactions on Power Systems, 2014, 29, 1944-1951.	6.5	12
32	Extending the Capabilities of the Mooring Analysis Program: A Survey of Dynamic Mooring Line Theories for Integration Into FAST. , 2014, , .		13
33	Impacts of providing inertial response on dynamic loads of wind turbine drivetrains. , 2014, , .		4
34	Building and calibration of a fast model of the SWAY prototype floating wind turbine. , 2013, , .		2
35	The Effect of Second-order Hydrodynamics on Floating Offshore Wind Turbines. Energy Procedia, 2013, 35, 253-264.	1.8	89
36	Simulation tool to assess mechanical and electrical stresses on wind turbine generators. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Modeling and Control to Mitigate Resonant Load in Variable-Speed Wind Turbine Drivetrain. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 277-286.	5.4	53
38	The New Modularization Framework for the FAST Wind Turbine CAE Tool. , 2013, , .		80
39	Numerical Prediction of Experimentally Observed Behavior of a Scale-Model of an Offshore Wind Turbine Supported by a Tension-Leg Platform. , 2013, , .		6
40	Numerical Stability and Accuracy of Temporally Coupled Multi-Physics Modules in Wind Turbine CAE Tools. , 2013, , .		12
41	Incorporation of Multi-Member Substructure Capabilities in FAST for Analysis of Offshore Wind Turbines. , 2012, , .		4
42	Offshore Code Comparison Collaboration: Phase III Results Regarding Tripod Support Structure Modeling. , 2009, , .		3
43	Influence of Control on the Pitch Damping of a Floating Wind Turbine. , 2008, , .		104
44	State-Space Control of Tower Motion for Deepwater Floating Offshore Wind Turbines. , 2008, , .		30
45	Modal Dynamics of Large Wind Turbines With Different Support Structures. , 2008, , .		15
46	Development and Verification of a Fully Coupled Simulator for Offshore Wind Turbines. , 2007, , .		42
47	Development of Fully Coupled Aeroelastic and Hydrodynamic Models for Offshore Wind Turbines. , 2006, , .		64
48	Development and Validation of an Aeroelastic Model of a Small Furling Wind Turbine. , 2005, , .		8
49	New Developments for the NWTTC's FAST Aeroelastic HAWT Simulator. , 2004, , .		18
50	Investigation of the IEC Safety Standard for Small Wind Turbine Design Through Modeling and Testing. , 2003, , .		0
51	Investigation of the IEC Safety Standard for Small Wind Turbine Design Through Modeling and Testing. , 2003, , 340.		3