

David Schlipf

List of Publications by Year in descending order

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66
papers

1,581
citations

394421

19
h-index

361022

35
g-index

73
all docs

73
docs citations

73
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-dimensional wind field generation for the aeroelastic simulation of wind turbines with lidars. <i>Wind Energy Science</i> , 2022, 7, 539-558.	3.3	3
2	The space-time structure of turbulence for lidar-assisted wind turbine control. <i>Renewable Energy</i> , 2022, 195, 293-310.	8.9	7
3	Updates on the OpenFAST Lidar Simulator. <i>Journal of Physics: Conference Series</i> , 2022, 2265, 042030.	0.4	6
4	Efficient multibody modeling of offshore wind turbines with flexible substructures. <i>Journal of Physics: Conference Series</i> , 2022, 2265, 042007.	0.4	0
5	A Spectral Model of Grid Frequency for Assessing the Impact of Inertia Response on Wind Turbine Dynamics. <i>Energies</i> , 2021, 14, 2492.	3.1	7
6	Lidar Wind Preview Quality Estimation for Wind Turbine Control. , 2021, , .		3
7	Parameterization of wind evolution using lidar. <i>Wind Energy Science</i> , 2021, 6, 61-91.	3.3	13
8	Robust gain scheduling baseline controller for floating offshore wind turbines. <i>Wind Energy</i> , 2020, 23, 17-30.	4.2	29
9	Modeling Uncertainties of Wind Field Reconstruction Using Lidar. <i>Journal of Physics: Conference Series</i> , 2020, 1452, 012088.	0.4	4
10	Lidar-based Estimation of Turbulence Intensity for Controller Scheduling. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 032053.	0.4	5
11	IEA Wind Task 32 and Task 37: Optimizing Wind Turbines with Lidar-Assisted Control Using Systems Engineering. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 042029.	0.4	6
12	Multibody modeling for concept-level floating offshore wind turbine design. <i>Multibody System Dynamics</i> , 2020, 49, 203-236.	2.7	21
13	Loop shaping based robust control for floating offshore wind turbines. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 022066.	0.4	3
14	Wind Turbine Controller to Mitigate Structural Loads on a Floating Wind Turbine Platform. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	1.2	20
15	Minute-Scale Forecasting of Wind Power Results from the Collaborative Workshop of IEA Wind Task 32 and 36. <i>Energies</i> , 2019, 12, 712.	3.1	48
16	Systems Engineering for Lidar-Assisted Control: A Sequential Approach. <i>Journal of Physics: Conference Series</i> , 2018, 1102, 012014.	0.4	12
17	Evaluation of control methods for floating offshore wind turbines. <i>Journal of Physics: Conference Series</i> , 2018, 1104, 012033.	0.4	16
18	A Comparison Between LIDAR-Based Feedforward and DAC for Control of Wind Turbines. , 2018, , .		3

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19	Investigation on the potential of individual blade control for lifetime extension. Journal of Physics: Conference Series, 2018, 1037, 032006.	0.4	8
20	Lidar-assisted Extreme Load Reduction by Multi-variable Protective Derating. Journal of Physics: Conference Series, 2018, 1037, 032025.	0.4	1
21	IEA Wind Task 32: Best Practices for the Certification of Lidar-Assisted Control Applications. Journal of Physics: Conference Series, 2018, 1102, 012010.	0.4	5
22	IEA Wind Task 32: Wind Lidar Identifying and Mitigating Barriers to the Adoption of Wind Lidar. Remote Sensing, 2018, 10, 406.	4.0	41
23	Optimizing Lidars for Wind Turbine Control Applicationsâ€”Results from the IEA Wind Task 32 Workshop. Remote Sensing, 2018, 10, 863.	4.0	48
24	Control Design For Disturbance Rejection in Wind Turbines. , 2018, , .		1
25	Analysis of control-oriented wake modeling tools using lidar field results. Wind Energy Science, 2018, 3, 819-831.	3.3	76
26	Optimization of Floating Offshore Wind Turbine Platforms With a Self-Tuning Controller. , 2017, , .		8
27	Full-Scale Field Test of Wake Steering. Journal of Physics: Conference Series, 2017, 854, 012013.	0.4	37
28	â„Ž controller design for closed-loop wake redirection. , 2017, , .		7
29	The Triple Spar Campaign: Implementation and Test of a Blade Pitch Controller on a Scaled Floating Wind Turbine Model. Energy Procedia, 2017, 137, 323-338.	1.8	33
30	Robust lidar-based closed-loop wake redirection for wind farm control. IFAC-PapersOnLine, 2017, 50, 4498-4503.	0.9	5
31	Lidar-based wake tracking for closed-loop wind farm control. Wind Energy Science, 2017, 2, 257-267.	3.3	15
32	Wind field reconstruction from nacelle-mounted lidar short-range measurements. Wind Energy Science, 2017, 2, 269-283.	3.3	43
33	Wind Turbine Controller to Mitigate Structural Loads on a Floating Wind Turbine Platform. , 2016, , .		16
34	Lidar-based wake tracking for closed-loop wind farm control. Journal of Physics: Conference Series, 2016, 753, 052009.	0.4	15
35	Turbulent Extreme Event Simulations for Lidar-Assisted Wind Turbine Control. Journal of Physics: Conference Series, 2016, 753, 052011.	0.4	6
36	Control design methods for floating wind turbines for optimal disturbance rejection. Journal of Physics: Conference Series, 2016, 753, 092006.	0.4	17

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37	Wake redirecting using feedback control to improve the power output of wind farms. , 2016, , .		13
38	Lidar-enhanced wind turbine control: Past, present, and future. , 2016, , .		34
39	Prospects of multivariable feedforward control of wind turbines using lidar. , 2016, , .		1
40	Parametric Wave Excitation Model for Floating Wind Turbines. Energy Procedia, 2016, 94, 290-305.	1.8	12
41	Long-term research challenges in wind energy â€“ a research agenda by the European Academy of Wind Energy. Wind Energy Science, 2016, 1, 1-39.	3.3	162
42	Full-field assessment of wind turbine near-wake deviation in relation to yaw misalignment. Wind Energy Science, 2016, 1, 41-53.	3.3	22
43	Prospects of Linear Model Predictive Control on a 10 MW Floating Wind Turbine. , 2015, , .		8
44	Detection of Wind Evolution and Lidar Trajectory Optimization for Lidar-Assisted Wind Turbine Control. Meteorologische Zeitschrift, 2015, 24, 565-579.	1.0	20
45	Nonlinear model predictive controller design for extreme load mitigation in transition operation region in wind turbines. , 2015, , .		10
46	Optimization of a feed-forward controller using a CW-lidar system on the CART3. , 2015, , .		13
47	Collective Pitch Feedforward Control of Floating Wind Turbines Using Lidar. Journal of Ocean and Wind Energy, 2015, 2, .	0.7	28
48	Three Dimensional Dynamic Model Based Wind Field Reconstruction from Lidar Data. Journal of Physics: Conference Series, 2014, 524, 012005.	0.4	21
49	Power Performance Measurements of the NREL CART-2 Wind Turbine Using a Nacelle-Based Lidar Scanner. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2029-2034.	1.3	9
50	Integrated Optimization of Floating Wind Turbine Systems. , 2014, , .		18
51	Importance of lidar measurement timing accuracy for wind turbine control. , 2014, , .		13
52	Nonlinear model predictive control of floating wind turbines with individual pitch control. , 2014, , .		47
53	Field Testing of Feedforward Collective Pitch Control on the CART2 Using a Nacelle-Based Lidar Scanner. Journal of Physics: Conference Series, 2014, 555, 012090.	0.4	38
54	Comparison of linear and nonlinear model predictive control of wind turbines using LIDAR. , 2014, , .		19

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55	Efficient critical design load case identification for floating offshore wind turbines with a reduced nonlinear model. <i>Journal of Physics: Conference Series</i> , 2014, 555, 012069.	0.4	14
56	Flatness-based Feedforward Control of Wind Turbines Using Lidar. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 5820-5825.	0.4	8
57	Optimal Control of Large Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1079-1089.	5.2	27
58	Nonlinear model predictive control of wind turbines using LIDAR. <i>Wind Energy</i> , 2013, 16, 1107-1129.	4.2	259
59	Adaptive Vorsteuerung für Windenergieanlagen. <i>Automatisierungstechnik</i> , 2013, 61, 329-338.	0.8	6
60	Field Testing LIDAR-Based Feed-Forward Controls on the NREL Controls Advanced Research Turbine. , 2013, , .		40
61	Model of the Correlation between Lidar Systems and Wind Turbines for Lidar-Assisted Control. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2233-2240.	1.3	37
62	Direct Speed Control using LIDAR and turbine data. , 2013, , .		9
63	Comparison of Two Independent Lidar-Based Pitch Control Designs. , 2012, , .		16
64	Comparison of feedforward and model predictive control of wind turbines using LIDAR. , 2012, , .		18
65	Advanced controller research for multi-MW wind turbines in the UPWIND project. <i>Wind Energy</i> , 2012, 15, 119-145.	4.2	64
66	Arrangements for enhanced measurements of a large turbine near-wake using LiDAR from the nacelle. <i>IOP Conference Series: Earth and Environmental Science</i> , 2008, 1, 012060.	0.3	1