Clemens Jauch

List of Publications by Year
in descending order

31 papers	654 citations	687363 13 h-index	552781 26 g-index
33 all docs	33 docs citations	33 times ranked	541 citing authors

#	Article	IF	Citations
1	International comparison of requirements for connection of wind turbines to power systems. Wind Energy, 2005, 8, 295-306.	4.2	192
2	Simulation of the impact of wind power on the transient fault behavior of the Nordic power system. Electric Power Systems Research, 2007, 77, 135-144.	3.6	66
3	Design of a wind turbine pitch angle controller for power system stabilisation. Renewable Energy, 2007, 32, 2334-2349.	8.9	50
4	Design of a System Substituting Todayâ€™s Inherent Inertia in the European Continental Synchronous Area. Energies, 2016, 9, 582.	3.1	46
5	A fuzzy logic pitch angle controller for power system stabilization. Wind Energy, 2007, 10, 19-30.	4.2	42
6	Continuous provision of synthetic inertia with wind turbines: implications for the wind turbine and for the grid. IET Renewable Power Generation, 2019, 13, 668-675.	3.1	37
7	Transient and dynamic control of a variable speed wind turbine with synchronous generator. Wind Energy, 2007, 10, 247-269.	4.2	29
8	Hydraulicâ€“pneumatic flywheel system in a wind turbine rotor for inertia control. IET Renewable Power Generation, 2016, 10, 33-41.	3.1	28
9	Investigation of Laminarâ€“Turbulent Transition on a Rotating Wind-Turbine Blade of Multimegawatt Class with Thermography and Microphone Array. Energies, 2019, 12, 2102.	3.1	23
10	Simulation Model of an Active-Stall Fixed-Speed Wind Turbine Controller. Wind Engineering, 2004, 28, 177-195.	1.9	19
11	A flywheel in a wind turbine rotor for inertia control. Wind Energy, 2015, 18, 1645-1656.	4.2	19
12	Determining the Load Inertia Contribution from Different Power Consumer Groups. Energies, 2020, 13, 1588.	3.1	19
13	Grid Support with Wind Turbines: The Case of the 2019 Blackout in Flensburg. Energies, 2021, 14, 1697.	3.1	13
14	Simulation Model of a Transient Fault Controller for an Active-Stall Wind Turbine. Wind Engineering, 2005, 29, 33-47.	1.9	9
15	Controls of a flywheel in a wind turbine rotor. Wind Engineering, 2016, 40, 173-185.	1.9	9
16	Simultaneous Inertia Contribution and Optimal Grid Utilization with Wind Turbines. Energies, 2019, 12, 3013.	3.1	8
17	Increased Wind Energy Yield and Grid Utilisation with Continuous Feed-In Management. Energies, 2017, 10, 870.	3.1	7
18	Hydraulic-pneumatic flywheel configurations for controlling the inertia of a wind turbine rotor. Wind Engineering, 2019, 43, 114-132.	1.9	6

#	Article	IF	Citations
19	Development of a Flexible Lightweight Hydraulic-Pneumatic Flywheel System for Wind Turbine Rotors. Fluids, 2020, 5, 162.	1.7	5
20	The Relevance of the Dynamic Stall Effect for Transient Fault Operations of Active-Stall Wind Turbines. Wind Engineering, 2005, 29, 353-364.	1.9	4
21	Grid Services and Stress Reduction with a Flywheel in the Rotor of a Wind Turbine. Energies, 2021, 14, 2556.	3.1	4
22	Influence of Continuous Provision of Synthetic Inertia on the Mechanical Loads of a Wind Turbine. Energies, 2021, 14, 5185.	3.1	4
23	Load analysis of hydraulicâ€pneumatic flywheel configurations integrated in a wind turbine rotor. Wind Energy, 2019, 22, 1190-1202.	4.2	3
24	Software-in-the-Loop Simulation of a Gas-Engine for the Design and Testing of a Wind Turbine Emulator. Energies, 2021, 14, 2898.	3.1	3
25	Potential of Onshore Wind Turbine Inertia in Decarbonising the Future Irish Energy System. Applied Sciences (Switzerland), 2022, 12, 2984.	2.5	3
26	Development of a Contactless Pitch Angle Measurement System. Wind Engineering, 2014, 38, 621-632.	1.9	2
27	Simulation Model of a Wind Turbine Pitch Controller for Grid Frequency Stabilisation. Wind Engineering, 2005, 29, 377-387.	1.9	1
28	Large Scale Test Bench for Emulating Grid Connected Wind Turbines of Different Sizes. , 2019, , .		1
29	Application of a New Dispatch Methodology to Identify the Influence of Inertia Supplying Wind Turbines on Day-Ahead Market Sales Volumes. Energies, 2021, 14, 1255.	3.1	1
30	A Simple Wind Model for Fast Wind Farm Simulations. Wind Engineering, 2014, 38, 523-534.	1.9	0
31	Identifying electromagnetic illusions in grid frequency measurements for synthetic inertia provision. , 2019, , .		0