

# Pietro Bortolotti

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

506  
citations

933447

10  
h-index

996975

15  
g-index

39  
all docs

39  
docs citations

39  
times ranked

319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined preliminaryâ€“detailed design of wind turbines. <i>Wind Energy Science</i> , 2016, 1, 71-88.	3.3	59
2	Integrated aero-structural optimization of wind turbines. <i>Multibody System Dynamics</i> , 2016, 38, 317-344.	2.7	24
3	Integration of multiple passive load mitigation technologies by automated design optimizationâ€”The case study of a mediumâ€“size onshore wind turbine. <i>Wind Energy</i> , 2019, 22, 65-79.	4.2	18
4	On the scaling of wind turbine rotors. <i>Wind Energy Science</i> , 2021, 6, 601-626.	3.3	15
5	Comparison between upwind and downwind designs of a 10â€“MW wind turbine rotor. <i>Wind Energy Science</i> , 2019, 4, 115-125.	3.3	15
6	Land-based wind turbines with flexible rail-transportable blades â€“ Part 1: Conceptual design and aeroservoelastic performance. <i>Wind Energy Science</i> , 2021, 6, 1277-1290.	3.3	14
7	A cross-sectional aeroelastic analysis and structural optimization tool for slender composite structures. <i>Composite Structures</i> , 2020, 253, 112755.	5.8	13
8	Fatigue characterization of Poly Vinyl Chloride (PVC) foam core sandwich composite using the G-control method. <i>Journal of Sandwich Structures and Materials</i> , 2016, 18, 374-394.	3.5	12
9	Challenges, opportunities, and a research roadmap for downwind wind turbines. <i>Wind Energy</i> , 2022, 25, 354-367.	4.2	11
10	Performance of non-intrusive uncertainty quantification in the aeroservoelastic simulation of wind turbines. <i>Wind Energy Science</i> , 2019, 4, 397-406.	3.3	11
11	Land-based wind turbines with flexible rail-transportable blades â€“ Part 2: 3D finite element design optimization of the rotor blades. <i>Wind Energy Science</i> , 2022, 7, 19-35.	3.3	8
12	Effectively using multifidelity optimization for wind turbine design. <i>Wind Energy Science</i> , 2022, 7, 991-1006.	3.3	8
13	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
14	An Open-Source Frequency-Domain Model for Floating Wind Turbine Design Optimization. <i>Journal of Physics: Conference Series</i> , 2022, 2265, 042020.	0.4	6
15	Innovative rail transport of a supersized land-based wind turbine blade. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 042041.	0.4	4
16	An efficient approach to explore the solution space of a wind turbine rotor design process. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 042016.	0.4	4
17	Blade planform design optimization to enhance turbine wake control. <i>Wind Energy</i> , 2022, 25, 811-830.	4.2	4
18	Wind turbine blade design with airfoil shape control using invertible neural networks. <i>Journal of Physics: Conference Series</i> , 2022, 2265, 042052.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Propagation of Uncertainties Through Wind Turbine Models for Robust Design Optimization. , 2017, , .		3
20	An Unsteady Actuator Line Solver to Enable Adjoint Sensitivity Studies for Wake Steering. Journal of Physics: Conference Series, 2020, 1618, 042038.	0.4	2
21	IEA Wind Energy Task 37 - System Engineering - Aerodynamic Optimization Case Study. , 2021, , .		2
22	Wind Turbine Rotor Design Optimization Using Importance Sampling. , 2020, , .		0