Christopher J Bay

List of Publications by Year
in descending order

21 papers	287 citations	1040056 9 h-index	1058476 14 g-index
22 all docs	22 docs citations	22 times ranked	121 citing authors

#	Article	IF	Citations
1	Distributed model predictive control for coordinated, grid-interactive buildings. Applied Energy, 2022, 312, 118612.	10.1	18
2	Integration of distributed controllers: Power reference tracking through charging station and building coordination. Applied Energy, 2022, 314, 118753.	10.1	5
3	FLOW Estimation and Rose SuperpositionÂ(FLOWERS): an integral approach to engineering wake models. Wind Energy Science, 2022, 7, 1137-1151.	3.3	1
4	The curled wake model: a three-dimensional and extremely fast steady-state wake solver for wind plant flows. Wind Energy Science, 2021, 6, 555-570.	3.3	24
5	Control-oriented model for secondary effects of wake steering. Wind Energy Science, 2021, 6, 701-714.	3.3	40
6	Design and analysis of a wake model for spatially heterogeneous flow. Wind Energy Science, 2021, 6, 737-758.	3.3	15
7	Objective and algorithm considerations when optimizing the number and placement of turbines in a wind power plant. Wind Energy Science, 2021, 6, 1143-1167.	3.3	8
8	Control co-design of 13 MW downwind two-bladed rotors to achieve 25% reduction in levelized cost of wind energy. Annual Reviews in Control, 2021, 51, 331-343.	7.9	36
9	Overview of FLORIS updates. Journal of Physics: Conference Series, 2020, 1618, 022028.	0.4	10
10	Comparison of modular analytical wake models to the Lillgrund wind plant. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	19
11	Steady-State Predictive Optimal Control of Integrated Building Energy Systems Using a Mixed Economic and Occupant Comfort Focused Objective Function. Energies, 2020, 13, 2922.	3.1	5
12	A gravo-aeroelastically scaled wind turbine rotor at field-prototype scale with strict structural requirements. Renewable Energy, 2020, 156, 535-547.	8.9	21
13	Flow Control Leveraging Downwind Rotors for Improved Wind Power Plant Operation. , 2019, , .		18
14	Efficient Distributed Optimization of Wind Farms Using Proximal Primal-Dual Algorithms. , 2019, , .		5
15	Structural Design of a 1/5thScale Gravo-Aeroelastically Scaled Wind Turbine Demonstrator Blade for Field Testing. , 2019, , .		10
16	Design and Testing of a Scaled Demonstrator Turbine at the National Wind Technology Center. , 2019, , .		12
17	System-level design studies for large rotors. Wind Energy Science, 2019, 4, 595-618.	3.3	24
18	Autonomous lighting assessments in buildings: part 1 â€“ robotic navigation and mapping. Advances in Building Energy Research, 2017, 11, 260-281.	2.3	1

#	Article	IF	Citations
19	Simulation and validation of interior and exterior navigational strategies for autonomous robotic assessments of energy. , 2015, , .		1
20	Autonomous Lighting Audits: Part 1 â€" Building Navigation and Mapping. , 2014, , .		2
21	Autonomous Lighting Audits: Part 2 â€" Light Identification and Analysis. , 2014, , .		2