## Simon J Watson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effect of the fatigue damage accumulation process on the damping and stiffness properties of adhesively bonded composite structures. Composite Structures, 2022, 287, 115328.	5.8	8
2	Wind turbine blade trailing edge crack detection based on airfoil aerodynamic noise: An experimental study. Applied Acoustics, 2022, 191, 108668.	3.3	9
3	Wind turbine drivetrains: state-of-the-art technologies and future development trends. Wind Energy Science, 2022, 7, 387-411.	3.3	44
4	Wind turbine gearbox fault prognosis using high-frequency SCADA data. Journal of Physics: Conference Series, 2022, 2265, 032067.	0.4	3
5	Mesoscale modeling of a "Dunkelflaute―event. Wind Energy, 2021, 24, 5-23.	4.2	7
6	Wind Energy flips to Open Access. Wind Energy, 2021, 24, 309-309.	4.2	0
7	Associating Synoptic-Scale Weather Patterns with Aggregated Offshore Wind Power Production and Ramps. Energies, 2021, 14, 3903.	3.1	6
8	A Brief Climatology of Dunkelflaute Events over and Surrounding the North and Baltic Sea Areas. Energies, 2021, 14, 6508.	3.1	8
9	Probabilistic wind power forecasting combining deep learning architectures. , 2020, , .		0
10	The impact of weather patterns on offshore wind power production. Journal of Physics: Conference Series, 2020, 1618, 062032.	0.4	3
11	Quantifying the Predictability of a â€~Dunkelflaute' Event by Utilizing a Mesoscale Model. Journal of Physics: Conference Series, 2020, 1618, 062042.	0.4	4
12	Day-ahead Wind Power Predictions at Regional Scales: Post-processing Operational Weather Forecasts with a Hybrid Neural Network. , 2020, , .		1
13	Automated wind turbine maintenance scheduling. Reliability Engineering and System Safety, 2020, 200, 106965.	8.9	15
14	Clustering wind profile shapes to estimate airborne wind energy production. Wind Energy Science, 2020, 5, 1097-1120.	3.3	11
15	A simple methodology to detect and quantify wind power ramps. Wind Energy Science, 2020, 5, 1731-1741.	3.3	4
16	Characterisation of fatigue damage in a thick adhesive joint based on changes in material damping. Journal of Physics: Conference Series, 2020, 1618, 022058.	0.4	2
17	Sensitivity study of a wind farm maintenance decision - A performance and revenue analysis. Renewable Energy, 2019, 132, 93-105.	8.9	16
18	Future emerging technologies in the wind power sector: A European perspective. Renewable and Sustainable Energy Reviews, 2019, 113, 109270.	16.4	140

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19	Airborne wind energy resource analysis. Renewable Energy, 2019, 141, 1103-1116.	8.9	63
20	An Effective Approach for Rotor Electrical Asymmetry Detection in Wind Turbine DFIGs. IEEE Transactions on Industrial Electronics, 2018, 65, 8872-8881.	7.9	47
21	Atmospheric gravity wave impacts on an offshore wind farm. Journal of Physics: Conference Series, 2018, 1037, 072050.	0.4	3
22	Modelling Uncertainty in t-RANS Simulations of Thermally Stratified Forest Canopy Flows for Wind Energy Studies. Energies, 2018, 11, 1703.	3.1	2
23	Modelling turbulence intensity within a large offshore wind farm. Wind Energy, 2018, 21, 1329-1343.	4.2	27
24	Statistical Evaluation of SCADA data for Wind Turbine Condition Monitoring and Farm Assessment. Journal of Physics: Conference Series, 2018, 1037, 032038.	0.4	7
25	Modelling the wind energy resource in complex terrain and atmospheres. Numerical simulation and wind tunnel investigation of non-neutral forest canopy flow. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 166, 48-60.	3.9	14
26	Using SCADA data for wind turbine condition monitoring – a review. IET Renewable Power Generation, 2017, 11, 382-394.	3.1	259
27	Offshore Turbine Wake Power Losses: Is Turbine Separation Significant?. Energy Procedia, 2017, 137, 134-142.	1.8	1
28	Optimisation of Data Acquisition in Wind Turbines with Data-Driven Conversion Functions for Sensor Measurements. Energy Procedia, 2017, 137, 571-578.	1.8	6
29	The Financial Benefits of Various Catastrophic Failure Prevention Strategies in a Wind Farm: Two market studies (UK-Spain). Journal of Physics: Conference Series, 2017, 926, 012014.	0.4	1
30	Preliminary assessment of the variability of UK offshore wind speed as a function of distance to the coast. Journal of Physics: Conference Series, 2016, 749, 012004.	0.4	0
31	Stator winding fault diagnosis in synchronous generators for wind turbine applications. , 2016, , .		4
32	Effect of power converter on condition monitoring and fault detection for wind turbine. , 2016, , .		7
33	Sustainable Design and Operation for Renewable EnergyA PV Case Study. , 2016, , .		0
34	Condition monitoring of permanent magnet synchronous generator for wind turbine applications. , 2016, , .		2
35	Feasibility of a fully autonomous wireless monitoring system for a wind turbine blade. Renewable Energy, 2016, 97, 89-96.	8.9	22
36	Review of pulsed power for efficient hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 7782-7791.	7.1	26

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37	On the Effects of Directional Bin Size When Simulating Large Offshore Wind Farms with CFD. Wind Engineering, 2015, 39, 641-650.	1.9	0
38	Wind speed variability across the UK between 1957 and 2011. Wind Energy, 2015, 18, 21-42.	4.2	19
39	Integration of Low-cost Consumer Electronics for In-situ Condition Monitoring of Wind Turbine Blades. , 2014, , .		2
40	A study on the inclusion of forest canopy morphology data in numerical simulations for the purpose of wind resource assessment. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 126, 24-37.	3.9	22
41	Quantifying the variability of wind energy. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 330-342.	4.1	32
42	Assessing the dependence of surface layer atmospheric stability on measurement height at offshore locations. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 131, 88-99.	3.9	18
43	A study of stability effects in forested terrain. Journal of Physics: Conference Series, 2014, 555, 012027.	0.4	3
44	A comparison of actuator disc and BEM models in CFD simulations for the prediction of offshore wake losses. Journal of Physics: Conference Series, 2014, 524, 012148.	0.4	9
45	Analysis of electrical power data for condition monitoring of a small wind turbine. IET Renewable Power Generation, 2013, 7, 341-349.	3.1	16
46	Stall-regulated variable-speed wind turbine Simulink model. , 2013, , .		2
47	Power optimization for a variable-speed stall-regulated wind-turbine using scalar control. , 2013, , .		Ο
48	Performance analysis of indirect vector control algorithm for small-sized wind turbine induction generator. Energy Procedia, 2012, 14, 964-970.	1.8	3
49	Utilizing a Risk-Based Systems Approach in the Due Diligence Process for Renewable Energy Generation. IEEE Systems Journal, 2011, 5, 223-232.	4.6	8
50	Preliminary study of the offshore wind and temperature profiles at the North of the YucatÃin Peninsula. Energy Conversion and Management, 2011, 52, 2829-2843.	9.2	5
51	Alkaline electrolysers: Model and real data analysis. International Journal of Hydrogen Energy, 2011, 36, 7956-7962.	7.1	26
52	The variability of future combined wind and marine power in the UK. , 2011, , .		0
53	Physics of Failure approach to wind turbine condition based maintenance. Wind Energy, 2010, 13, 395-405.	4.2	97
54	Wind characteristics on the Yucatán Peninsula based on short term data from meteorological stations. Energy Conversion and Management, 2010, 51, 754-764.	9.2	20

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55	Low-cost mounting arrangements for building-integrated wind turbines. Wind Energy, 2010, 13, 657-669.	4.2	2
56	A Comparison of Long-Term Wind Speed Forecasting Models. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	9
57	Condition Monitoring of the Power Output of Wind Turbine Generators Using Wavelets. IEEE Transactions on Energy Conversion, 2010, 25, 715-721.	5.2	159
58	Power Limitation at High Wind Speeds for a Variable Speed Fixed Pitch Wind Turbine Using Closed-Loop Scalar Control. Renewable Energy and Power Quality Journal, 2010, 1, 1043-1046.	0.2	3
59	Long-Term Wind Speed Forecasting Based on Seasonal Trends. , 2009, , .		0
60	Evaluation of the Wind Shear at a Site in the North-West of the Yucatan Peninsula, Mexico. Wind Engineering, 2009, 33, 93-107.	1.9	9
61	Preliminary study of long-term wind characteristics of the Mexican YucatÃ <sub>i</sub> n Peninsula. Energy Conversion and Management, 2009, 50, 1773-1780.	9.2	11
62	Surface passivation by silicon nitride in Laser Grooved Buried Contact (LGBC) silicon solar cells. Superlattices and Microstructures, 2009, 45, 234-239.	3.1	3
63	Reliability analysis for wind turbines with incomplete failure data collected from after the date of initial installation. Reliability Engineering and System Safety, 2009, 94, 1057-1063.	8.9	125
64	Wind turbine availability analysis based on statistical data. , 2009, , .		3
65	Smart Monitoring of Wind Turbines Using Neural Networks. , 2009, , 1-8.		10
66	Developing a Knowledge-Based System Using Rough Set Theory and Genetic Algorithms for Substation Fault Diagnosis. Studies in Computational Intelligence, 2009, , 279-320.	0.9	3
67	Assessment of Condition Monitoring Techniques for Offshore Wind Farms. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	82
68	Wind Resource Assessment for the Kingdom of Bahrain. Wind Engineering, 2008, 32, 439-448.	1.9	18
69	Modelling of the Performance of a Building-Mounted Ducted Wind Turbine. Journal of Physics: Conference Series, 2007, 75, 012001.	0.4	24
70	Building Knowledge for Substation-Based Decision Support Using Rough Sets. IEEE Transactions on Power Delivery, 2007, 22, 1372-1379.	4.3	45
71	Estimating the potential yield of small building-mounted wind turbines. Wind Energy, 2007, 10, 271-287.	4.2	88
72	Daily Load Forecasting and Maximum Demand Estimation using ARIMA and GARCH. , 2006, , .		45

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73	Validation of wind speed prediction methods at offshore sites. Wind Energy, 2006, 9, 75-85.	4.2	18
74	Comparison of electrical energy efficiency of atmospheric and high-pressure electrolysers. International Journal of Hydrogen Energy, 2006, 31, 1964-1979.	7.1	154
75	Application of a Monte Carlo Simulation Method for Predicting Voltage Regulation on Low-Voltage Networks. IEEE Transactions on Power Systems, 2005, 20, 279-285.	6.5	8
76	Analyzing the Impact of Weather Variables on Monthly Electricity Demand. IEEE Transactions on Power Systems, 2005, 20, 2078-2085.	6.5	210
77	Power Curve Characterization II. Modelling Using Polynomial Regression. Renewable Energy and Power Quality Journal, 2005, 1, 363-366.	0.2	2
78	Power Curve Characterization I: Improving the Bin Method. Renewable Energy and Power Quality Journal, 2005, 1, 367-371.	0.2	11
79	Monte Carlo Simulation of Residential Electricity Demand for Forecasting Maximum Demand on Distribution Networks. IEEE Transactions on Power Systems, 2004, 19, 1685-1689.	6.5	82
80	Identifying the Effect of Tidal Height on Offshore Wind Speed Profiles. Wind Energy, 2003, 6, 405-412.	4.2	5
81	Simulation of Power Quality in Residencial Electricity Networks. Renewable Energy and Power Quality Journal, 2003, 1, 620-627.	0.2	3
82	The Impact of the Anomalous Weather of 1995 on the U.K. Economy. Climatic Change, 2000, 44, 1-26.	3.6	48
83	A new matrix method of predicting long-term wind roses with MCP. Journal of Wind Engineering and Industrial Aerodynamics, 1997, 66, 85-94.	3.9	36
84	The Optimisation of Renewable Energy Sources in an Electrical Power System by Use of Simulation and Deterministic Planning Models. International Transactions in Operational Research, 1996, 3, 255-269.	2.7	10
85	Short-term prediction of local wind conditions. Boundary-Layer Meteorology, 1994, 70, 171-195.	2.3	85
86	Application of wind speed forecasting to the integration of wind energy into a large scale power system. IET Generation, Transmission and Distribution, 1994, 141, 357.	1.1	65
87	Photofission and photoneutron measurements on 241Am between 5 and 10 MeV. Nuclear Physics A, 1992, 548, 365-373.	1.5	12