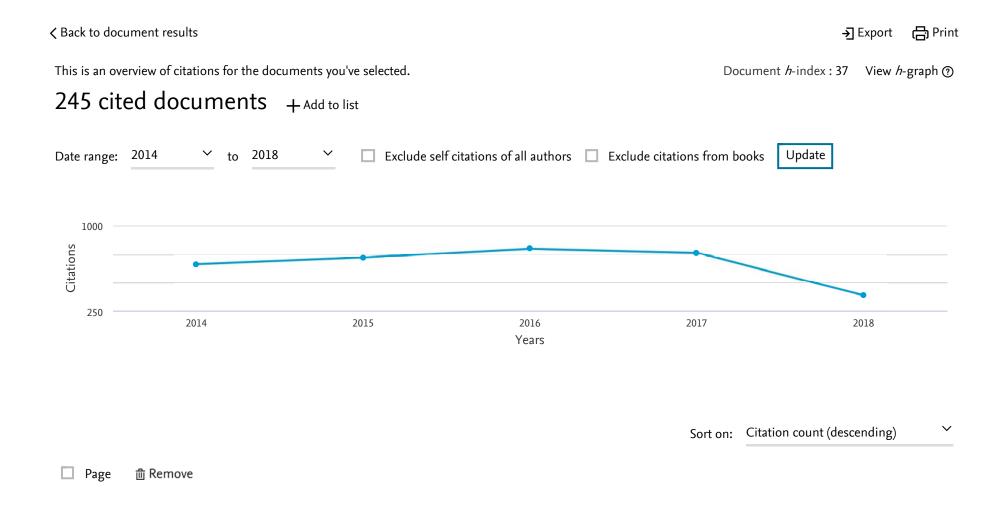
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Citation overview



	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
□ 1	Energy storage and its use with intermittent renewable energ	2004	330	107	81	77	95	40	400		730
<u> </u>	Domestic electricity use: A high-resolution energy demand mo	2010	81	52	76	74	83	45	330		411
<u> </u>	Stabilization of grid frequency through dynamic demand contr	2007	132	51	47	69	53	20	240		372
□ 4	A high-resolution domestic building occupancy model for ener	2008	83	24	38	35	38	23	158		241
<u> </u>	Impact of widespread photovoltaics generation on distributio	2007	85	36	23	26	28	12	125		210
□ 6	Online wind turbine fault detection through automated SCADA	2009	63	24	29	36	30	15	134		197
7	Predicting islanding operation of grid connected PV inverter	2000	92	11	10	15	6		42		134
8	Modeling the benefits of vehicle-to-grid technology to a pow	2012	17	18	34	29	17	17	115		132
9	Design optimization of thermoelectric devices for solar powe	1998	72	15	13	11	12	6	57		129
1 0	Network power-flow analysis for a high penetration of distri	2007	57	9	10	21	13	11	64		121
1 1	Power quality from multiple grid-connected single-phase inve	2004	60	12	14	13	11	3	53		113
12	Thermal modelling of a building with an integrated ventilate	2003	65	8	6	11	7	7	39		104
13	A photovoltaic-powered seawater reverse-osmosis system witho	2003	66	6	11	8	6	5	36		102
<u> </u>	Domestic lighting: A high-resolution energy demand model	2009	23	9	16	16	16	11	68		91
15	Electrical integration of renewable energy into stand-alone	2007	52	9	4	9	6	3	31		83
<u> </u>	Application of auto-regressive models to U.K. wind speed dat	2012	19	11	17	16	9	10	63		82
<u> </u>	Thermal performance estimation for ventilated PV facades	2004	55	6	9	5	3		23		78
□ 18	Design and thermal analysis of a two stage solar concentrato	2000	33	12	12	6	7	8	45		78
<u> </u>	Comparison of electrical energy efficiency of atmospheric an	2006	40	6	5	7	10	5	33		73

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
2 0	Experimental study of variations of the solar spectrum of re	2003	40	11	5	3	7	4	30		70
2 1	A wind-powered seawater reverse-osmosis system without batte	2003	40	9	5	6	4	5	29		69
2 2	Optimal smoothing for trend removal in short term electricit	1998	49	3	7	6		2	18		67
<u>23</u>	Experience with bicoherence of electrical power for conditio	1998	39	6	6	6	4	2	24		63
2 4	The evolution of electricity demand and the role for demand	2013	5	14	13	11	12	6	56		61
2 5	A small-scale seawater reverse-osmosis system with excellent	2003	44	4	4	3	4	1	16		60
<u> </u>	Towards an assessment of power system frequency support from	2013	1	4	11	18	11	11	55		56
27	The effect of spectral variations on the performance paramet	2005	23	9	4	7	12	1	33		56
28	Smart control for minimizing distribution network reinforcem	2013	5	6	9	14	13	5	47		52
<u>29</u>	Laboratory demonstration of a photovoltaic-powered seawater	2005	28	4	11	4	2	3	24		52
3 0	Modelling long-term module performance based on realistic re	2003	25	3	6	4	10	2	25		50
3 1	On the importance of considering the incident spectrum when	2004	19	8	4	5	8	4	29		48
3 2	Wind turbine generator condition-monitoring using temperatur	2012	11	10	3	9	11	3	36		47
33	A probabilistic method for calculating the usefulness of a s	2006	27	2	6	9	2		19		46
3 4	The influence of the measurement environment on the accuracy	1999	20	4	6	9	2	1	22	1	43
35	Potential for domestic dynamic demand-side management in the	2007	28	2	4	4	1	2	13		41
3 6	The potential of domestic electric vehicles to contribute to	2009	21	4	6	5	3	1	19		40
37	The impact of domestic plug-in hybrid electric vehicles on p	2010	13	7	8	8	3		26		39
38	Cooling potential of ventilated PV façade and solar air heat	2006	18	4	3	5	4	3	19		37

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
39	A copula model of wind turbine performance	2011	11	10	3	3	6	3	25		36
40	Façades and summer performance of buildings	2008	18	4	4	8		2	18		36
4 1	Wind turbine gearbox condition monitoring using temperature	2011	7	8	4	7	9		28		35
42	REVIEW OF WIND/DIESEL STRATEGIES.	1983	31	1			2		3		34
43	UK microgeneration. Part I: Policy and behavioural aspects	2009	22	4	2	1	2	1	10		32
□ 44	Design and construction of a modular electronic photo-voltai	2000	19	2	3	1	2	4	12		31
<u> </u>	Detailed PV array model for non-uniform irradiance and its v	2013		2	6	10	8	3	29		29
<u> </u>	Experimental investigation of spectral effects on amorphous	2002	22	1	1	1	2		5		27
47	Horizontal, two point coherence for separations greater than	1998	22		1	4			5		27
□ 48	A simplified approach to thermal performance calculation for	2006	10	4	5	3	4		16		26
49	Equilibrium thermal characteristics of a building integrated	2009	6	1	4	2	8	4	19		25
50	Impact of spectral effects on the electrical parameters of m	2003	13	4	1	3	4		12		25
□ 51	Integrating micro-generation into distribution systems - a r	2008	12	1	5	3	3		12		24
<u> </u>	A critical appraisal of the factors affecting energy product	2004	13	2	4	2	2		10		23
<u> </u>	Current waveform quality from grid-connected photovoltaic in	2000	15	2	1	1	3	1	8		23
□ 54	Supervisory control and data acquisition data-based non-line	2013		1	4	4	11	2	22		22
<u> </u>	Symmetries, expectations, dynamics and contexts: A framework	2013	5	1	4	6	5		16		21
<u>56</u>	UK microgeneration. Part II: Technology overviews	2010	11	3	4			2	9		20
57	Modelling of the performance of a building-mounted ducted wi	2007	9	3	2	2	1	3	11		20

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
58	Applying thermophysics for wind turbine drivetrain fault dia	2016				2	10	7	19		19
<u> </u>	Optical filtering of solar radiation to increase performance	2002	7		2	6	3	1	12		19
☐ 60	Renewable energy powered desalination in Baja California Sur	2008	12	4	2				6		18
☐ 61	Power system frequency management challenges - A new approac	2014		1	2	7	6	1	17		17
62	Assessment of vehicle to grid power as power system support	2009	14	3					3		17
☐ 63	Cfd modelling of double-skin façades with venetian blinds	2007	5	4	2	3	3		12		17
☐ 64	Performance of amorphous silicon double junction photovoltai	2002	12	3	1				4		16
<u> </u>	Performance analysis of a small wind powered reverse osmosis	1997	15					1	1		16
☐ 66	A wind/diesel system with variable speed flywheel storage	1993	12	2	1	1			4		16
☐ 67	Short-term spatio-temporal prediction of wind speed and dire	2014		1		6	6	2	15		15
□ 68	Evaluation of Raney nickel electrodes prepared by atmospheri	2013		1	3	4	4	3	15		15
☐ 69	Energy storage and its use with wind power	2005	14		1				1		15
7 0	Modelling the impact of micro-combined heat and power genera	2008	10	1	1	2			4		14
71	Syracuse - A multi-junction concentrator system computer mod	2005	11	1	1		1		3		14
72	Seasonal performance of A-SI single- And multijunction modul	2005	4	2	5	1	2		10		14
73	Investigating the seasonal performance of amorphous silicon	2003	7		3	1	3		7		14
74	Utilisation of alkaline electrolysers to improve power syste	2014			1	5	3	4	13		13
75	Copula-based model for wind turbine power curve outlier reje	2014			1	7		5	13		13
76	Wind turbine tower vibration modeling and monitoring by the	2012		1	1	4	6	1	13		13

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
77	Grid-connected renewables, storage and the UK electricity ma	2011	6	1	2	4			7		13
78	Wind characteristics on the Yucatán Peninsula based on short	2010	9	1		2	1		4		13
7 9	Wind resource assessment for the kingdom of Bahrain	2008	5	3	2	1	2		8		13
□ 80	Modelling shading on amorphous silicon single and double jun	2003	5	1	2	3	1	1	8		13
81	An electro-thermal analysis of a variable-speed doubly-fed i	2015			3	3	5	1	12		12
82	Preliminary study of long-term wind characteristics of the M	2009	8	2		2			4		12
83	Maximising revenue for non-firm distributed wind generation	2013			4	4	2	1	11		11
84	A matlab simulator for electric drive vehicle to grid implem	2010	9		1			1	2		11
85	Offshore wind turbine maintenance access: A closed-form prob	2013	1	1	3	4	1		9		10
86	Modeling and control of Z-source grid-connected PV system wi	2009	7	1		1		1	3		10
87	Simulating atmospheric turbulence by synthetic realization o	1995	8	1		1			2		10
88	Limitations and recommendations regarding the Shinozuka Meth	1991	10						0		10
8 9	Influence of condenser conditions on organic rankine cycle I	2013		2	3	1	3		9		9
90	A modelling framework for the study of highly distributed po	2009	5	1	2			1	4		9
91	Evaluation of the wind shear at a site in the North-West of	2009	6	2			1		3		9
92	Parameter estimation for ventilated photovoltaic façades	2002	5		2	2			4		9
93	Grid-connected amorphous silicon photovoltaic array	1996	3	1	1		2	2	6		9
94	Wear implications of intermittent diesel operation in wind/d	1993	2		1	4	2		7		9
95	Review of grid-tied converter topologies used in photovoltai	2016					5	3	8		8

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
96	Actual PV module performance including spectral losses in th	2005	6	1			1		2		8
97	An assessment of the impact of reduced averaging time on sma	2014		1	4	2			7		7
98	Wind turbulence impacts to onshore and offshore wind turbine	2014			2	2	3		7		7
99	An overview of renewable energy technologies with a view to	2009	2	1	2		2		5		7
<u> </u>	Nodal network and CFD simulation of airflow and heat transfe	2008	5	1			1		2		7
1 01	CFD modelling of naturally ventilated double-skin facades wi	2008	2		1	3	1		5		7
102	Aspire - A tool to investigate spectral effects on PV device	2003	5		1		1		2		7
<u> </u>	Probabilistic real-Time thermal rating forecasting for overh	2017				4	1	1	6		6
104	A Hybrid Forecasting Method for Wind Power Ramp Based on Ort	2017					2	4	6		6
1 05	Numerical weather prediction wind correction methods and its	2016					3	3	6		6
106	Clustering methods of wind turbines and its application in s	2014			1	1	2	2	6		6
107	Analysis of wind and wave data to assess maintenance access	2014		1	1	3	1		6		6
108	Using electric vehicle fleet as responsive demand for power	2013		1	1	1	2	1	6		6
109	Effects of extreme and transient loads on wind turbine drive	2012			1		4	1	6		6
110	Modelling the provision of inertial response from variable s	2011	5	1					1		6
111	Long-term performance of amorphous photovoltaic modules	2007	5	1					1		6
<u> </u>	Realising transition pathways for a more electric, low-carbo	2017					1	4	5		5
<u> </u>	The challenges of high wind energy penetration in the UK pow	2014				1	2	2	5		5
114	Investigation of the potential for electric vehicles to supp	2014			2	2	1		5		5

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
115	Development of an ambient temperature alkaline electrolyser	2013		1	1	1	2		5		5
116	Artificial neural network for real time modelling of photovo	2010	1	1		1	2		4		5
117	Spatio-temporal correlations of available wind power and imp	2010	5						0		5
118	Application of statistical wind models for system impacts	2009	4	1					1		5
<u> </u>	Effect of shading on amorphous silicon single and double jun	2004	2		2	1			3		5
120	Performance of photovoltaic modules in a temperate maritime	2003	4		1				1		5
121	Modelling the realistic short circuit current and mpp power	2003	4		1				1		5
122	Wind diesel systems - design assessment and future potential	1992	5						0		5
123	Wind tunnel application of particle image velocimetry to the	1991	5						0		5
124	A spatial and temporal correlation analysis of aggregate win	2017						4	4		4
125	Wind forecasting using kriging and vector auto-regressive mo	2015				2	1	1	4		4
126	Demonstration of the operation and performance of a pressuri	2015				2	1	1	4		4
127	Model based wind turbine gearbox fault detection on SCADA Da	2014			1	1	2		4		4
128	A cyclo-stationary complex multichannelwiener filter for the	2013	1		1	1	1		3		4
129	Preliminary study of the offshore wind and temperature profi	2011	1	2		1			3		4
130	Assessment of performance of building shading device with in	2010	1				2	1	3		4
131	Guest Editorial	2008	2				2		2		4
<u> </u>	Assessing load forecast uncertainty using extreme value theo	2008	2		1		1		2		4
133	Accuracy of energy prediction methodologies	2007	4						0		4

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
134	Wind diesel design and the role of short term flywheel energ	1994	3	1					1		4
135	Particle image velocimetry measurements of the aerodynamics	1991	1		2	1			3		4
136	Probabilistic weather forecasting for dynamic line rating st	2016					2	1	3		3
137	Mapping hail meteorological observations for prediction of e	2016					3		3		3
138	Power system frequency management challenges- A probabilisti	2013		3					3		3
139	Development of new materials for alkaline electrolysers and	2013	1		1	1			2		3
140	Maximising revenue for non-firm distributed wind generation	2011		3					3		3
141	PV grid-connected power conditioning system with Z-source ne	2009	1	1				1	2		3
142	Distributed automatic voltage control (DAVC)	2009	2		1				1		3
1 43	Predicting the performance of small wind turbines in the roo	2007	3						0		3
144	Network power-flow analysis for a high penetration of distri	2006	2	1					1		3
145	Wind turbine blade damage modelling for condition monitoring	2001	3						0		3
146	Combined switching harmonics from multiple grid-connected si	2001	3						0		3
147	Modelled operation of the Shetland islands power system comp	1995	3						0		3
148	Lab. and field experiences in the application of particle im	1993	3						0		3
1 49	An assessment of flywheel energy storage as applied to wind/	1990	3						0		3
150	SMALL SCALE WIND/DIESEL SYSTEMS FOR ELECTRICITY GENERATION I	1984	3						0		3
151	On the use of high-frequency SCADA data for improved wind tu	2017						2	2		2
1 52	Kernel methods for short-term spatio-temporal wind predictio	2015				1	1		2		2

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
153	New maximum power point tracker for photovoltaic systems exp	2014				1	1		2		2
154	Improvement of power system frequency stability using alkali	2013					2		2		2
155	Offshore Wind Power	2013			1		1		2		2
156	Improved spatial modelling of wind fields	2013	1		1				1		2
157	SCADA data based nonlinear state estimation technique for wi	2012	1		1				1		2
158	Wind plant contributions to power system frequency response	2012	2						0		2
1 59	Power converters for use in stand-alone renewable energy sys	2004	2						0		2
<u> </u>	Secondary distribution network power-flow analysis	2003	2						0		2
161	Identifying the effect of tidal height on offshore wind spee	2003	1				1		1		2
162	Tidal influence on offshore wind fields and resource predict	2002	1	1					1		2
<u> </u>	Wind energy in the context of the National Forest - two case	1998	2						0		2
164	State-of-the-art of wind-diesel and other hybrid systems	1996	2						0		2
165	Design criteria for passive pitch control of wind turbines u	1995	2						0		2
166	Stability Impact on Wake Development in Moderately Complex T	2017						1	1		1
167	Optimal power dispatch within wind farm based on two approac	2017					1		1		1
168	Assessing frequency stability in the Gb power system with hi	2014			1				1		1
☐ 169	Plug-in electric vehicles as demand response to local surplu	2014					1		1		1
170	Plug-in electric vehicles as demand response to absorb local	2014				1			1		1
171	A probabilistic approach to assessing combined droop and ine	2014				1			1		1

	Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
		Total	2474	663	721	798	762	389	3333	1	5808
172	Study on order analysis for condition monitoring wind turbin	2014			1				1		1
173	Spatio-temporal prediction of wind speed and direction by co	2014						1	1		1
<u> </u>	Training tornado: An intensive, cross-curricular Ph.D. progr	2013		1					1		1
<u> </u>	Investigation on the interaction between inertial response a	2012				1			1		1
<u> </u>	Potential of plug-in electric vehicles for supporting region	2012		1					1		1
177	Planning for variability in the longer term: The challenge o	2012	1						0		1
<u> </u>	The impact on the electrical grid of hydrogen production fro	2010	1						0		1
<u> </u>	Solar energy. Photovoltaics	2008		1					1		1
180	The architecture and control of large power networks with di	2008	1						0		1
181	HVDC schemes and enabling technologies for large-scale wind	2007	1						0		1
<u> </u>	A probabilistic method for calculating the usefulness of a s	2005	1						0		1
183	Effects on photovoltaic solar module performance in the UK c	2004		1					1		1
<u> </u>	Spectral dependence of amorphous silicon photovoltaic device	2004	1						0		1
185	Thermal aspects of building integrated PV systems	2003	1						0		1
<u> </u>	A European masters in renewable energy - Alleviating skills	2003			1				1		1
187	Modelling spectral irradiation effects on single- and multi	2002	1						0		1
188	The validity of allowing for tidal fluctuations in offshore	2002	1						0		1
189	Parametrisation of thin film solar cells	1998		1					1		1
190	Instrumentation and model development for the Proven 2.2 kW	1996	1						0		1

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		Total	2474	663	721	798	762	389	3333	1	5808
1 91	Wind, photovoltaic and battery electrical power: Experience	1996	1						0		1
192	Wind power — a major resource for the UK	1995	1						0		1
<u> </u>	Wind diesel systems for developing countries	1994	1						0		1
<u> </u>	System design considerations for electricity generation from	1992	1						0		1
195	Some design aspects of wind/Diesel systems incorporating fly	1986	1						0		1
1 96	FURTHER PROGRESS WITH WIND/DIESEL INTEGRATION.	1985	1						0		1
197	WIND-POWERED ELECTRICITY GENERATION ON LUNDY ISLAND.	1984	1						0		1
198	Markov Chain Monte Carlo simulation of electric vehicle use	2018							0		0
199	Utilisation of alkaline electrolysers in existing distributi	2018							0		0
200	Short-term wind power forecasting based on clustering pre-ca	2018							0		0
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