John Boland

List of Publications by Citations

136 papers	3,215 citations	29 h-index	53 g-index
150 ext. papers	3,865 ext. citations	5.4 avg, IF	5.79 L-index

#	Paper	IF	Citations
136	Review of solar irradiance forecasting methods and a proposition for small-scale insular grids. *Renewable and Sustainable Energy Reviews*, **2013**, 27, 65-76	16.2	412
135	Modelling of diffuse solar fraction with multiple predictors. *Renewable Energy*, **2010**, 35, 478-483	8.1	152
134	Forecasting solar radiation on an hourly time scale using a Coupled AutoRegressive and Dynamical System (CARDS) model. *Solar Energy*, **2013**, 87, 136-149	6.8	147
133	Compiling and using input-output frameworks through collaborative virtual laboratories. *Science of the Total Environment*, **2014**, 485-486, 241-251	10.2	129
132	Models of diffuse solar radiation. *Renewable Energy*, **2008**, 33, 575-584	8.1	120
131	Preliminary survey on site-adaptation techniques for satellite-derived and reanalysis solar radiation datasets. *Solar Energy*, **2016**, 132, 25-37	6.8	105
130	Modelling the diffuse fraction of global solar radiation on a horizontal surface. *Environmetrics*, **2001**, 12, 103-116	1.3	89
129	Are the dietary guidelines for meat, fat, fruit and vegetable consumption appropriate for environmental sustainability? A review of the literature. *Nutrients*, **2014**, 6, 2251-65	6.7	82
128	Post-processing of solar irradiance forecasts from WRF model at Reunion Island. *Solar Energy*, **2014**, 105, 99-108	6.8	64
127	Artificial neural network modeling and analysis of photovoltaic/thermal system based on the experimental study. *Energy Conversion and Management*, **2019**, 186, 368-379	10.6	63
126	Verification of deterministic solar forecasts. *Solar Energy*, **2020**, 210, 20-37	6.8	63
125	Impact of climate change on the design of energy efficient residential building envelopes. *Energy and Buildings*, **2015**, 87, 142-154	7	62
124	The economic contribution of seagrass to secondary production in South Australia. *Ecological Modelling*, **2006**, 196, 163-172	3	61
123	Policy insights from a green supply chain optimisation model. *International Journal of Production Research*, **2015**, 53, 6522-6533	7.8	59
122	Estimating the potential for solar energy utilization in Chile by satellite-derived data and ground station measurements. *Solar Energy*, **2015**, 121, 139-151	6.8	56
121	Heat stress risk and resilience in the urban environment. *Sustainable Cities and Society*, **2016**, 26, 278-288	10.1	55
120	Time-series analysis of climatic variables. *Solar Energy*, **1995**, 55, 377-388	6.8	54

119	Decomposing global solar radiation into its direct and diffuse components. *Renewable and Sustainable Energy Reviews*, **2013**, 28, 749-756	16.2	53
118	Nonparametric short-term probabilistic forecasting for solar radiation. *Solar Energy*, **2016**, 133, 465-475	6.8	51
117	Rescuing Food from the Organics Waste Stream to Feed the Food Insecure: An Economic and Environmental Assessment of Australian Food Rescue Operations Using Environmentally Extended Waste Input-Output Analysis. *Sustainability*, **2015**, 7, 4707-4726	3.6	50
116	Validation of the predictive capabilities of the Sbrc-G in vitro assay for estimating arsenic relative bioavailability in contaminated soils. *Environmental Science & Technology*, **2014**, 48, 12962-9	10.3	43
115	Evaluation of the environmental impact of weekly food consumption in different socio-economic households in Australia using environmentally extended inputoutput analysis. *Ecological Economics*, **2015**, 111, 58-64	5.6	43
114	The Mekongapplications of value at risk (VaR) and conditional value at risk (CVaR) simulation to the benefits, costs and consequences of water resources development in a large river basin. *Ecological Modelling*, **2007**, 201, 89-96	3	41
113	Spatial-temporal forecasting of solar radiation. *Renewable Energy*, **2015**, 75, 607-616	8.1	39
112	Estimating informal household food waste in developed countries: the case of Australia. *Waste Management and Research*, **2014**, 32, 1254-8	4	37
111	Artificial Neural Network models for estimating daily solar global UV, PAR and broadband radiant fluxes in an eastern Mediterranean site. *Atmospheric Research*, **2015**, 152, 138-145	5.4	33
110	Evaluating tilted plane models for solar radiation using comprehensive testing procedures, at a southern hemisphere location. *Renewable Energy*, **2013**, 51, 124-131	8.1	33
109	Generation of synthetic sequences of electricity demand: Application in South Australia. *Energy*, **2007**, 32, 2230-2243	7.9	33
108	Can the Excess Heat Factor Indicate Heatwave-Related Morbidity? A Case Study in Adelaide, South Australia. *EcoHealth*, **2016**, 13, 100-10	3.1	30
107	Short term solar radiation forecasting: Island versus continental sites. *Energy*, **2016**, 113, 186-192	7.9	29
106	Satellite-augmented diffuse solar radiation separation models. *Journal of Renewable and Sustainable Energy*, **2019**, 11, 023705	2.5	28
105	Bayesian statistical analysis applied to solar radiation modelling. *Renewable Energy*, **2013**, 49, 124-127	8.1	27
104	Predictive Models for Photovoltaic Electricity Production in Hot Weather Conditions. *Energies*, **2017**, 10, 971	3.1	27
103	Predicting Arsenic Relative Bioavailability Using Multiple in Vitro Assays: Validation of in Vivo-in Vitro Correlations. *Environmental Science & Technology*, **2015**, 49, 11167-75	10.3	26
102	Resolution of the cloud enhancement problem for one-minute diffuse radiation prediction. *Renewable Energy*, **2018**, 125, 472-484	8.1	26

101	Heat stress-resistant building design in the Australian context. *Energy and Buildings*, **2018**, 158, 290-299	7	26
100	Drivers and barriers to heat stress resilience. *Science of the Total Environment*, **2016**, 571, 603-14	10.2	25
99	Assessing net energy consumption of Australian economy from 2004⊡05 to 2014⊡15: Environmentally-extended input-output analysis, structural decomposition analysis, and linkage analysis. *Applied Energy*, **2019**, 240, 766-777	10.7	25
98	Integrating climate change into meteorological weather data for building energy simulation. *Energy and Buildings*, **2019**, 183, 749-760	7	25
97	Estimating industrial solid waste and municipal solid waste data at high resolution using economic accounts: an input⊡output approach with Australian case study. *Journal of Material Cycles and Waste Management*, **2016**, 18, 677-686	3.4	24
96	Resilience to heat in public space: a case study of Adelaide, South Australia. *Journal of Environmental Planning and Management*, **2016**, 59, 1833-1854	2.8	24
95	The viability of electrical energy storage for low-energy households. *Solar Energy*, **2017**, 155, 1216-1224	6.8	24
94	Matching the grade correlation coefficient using a copula with maximum disorder. *Journal of Industrial and Management Optimization*, **2007**, 3, 305-312	2	24
93	Time Series Modelling of Solar Radiation **2008**, 283-312		24
92	A Waste Supply-Use Analysis of Australian Waste Flows. *Journal of Economic Structures*, **2014**, 3,	3.2	23
91	Comparing diffuse radiation models with one predictor for partitioning incident PAR radiation into its diffuse component in the eastern Mediterranean basin. *Renewable Energy*, **2010**, 35, 1820-1827	8.1	22
90	Understanding South Australian rainfall trends and step changes. *International Journal of Climatology*, **2015**, 35, 348-360	3.5	21
89	Assessment of solar radiation components in Brazil using the BRL model. *Renewable Energy*, **2017**, 108, 569-580	8.1	20
88	Scenario generation and probabilistic forecasting analysis of spatio-temporal wind speed series with multivariate autoregressive volatility models. *Applied Energy*, **2019**, 239, 1226-1241	10.7	20
87	Policy recommendations to increase urban heat stress resilience. *Urban Climate*, **2018**, 25, 51-63	6.8	19
86	Generating Synthetic Rainfall on Various Timescales⊡Daily, Monthly and Yearly. *Environmental Modeling and Assessment*, **2009**, 14, 431-438	2	18
85	Controlling stored energy in a concentrating solar thermal power plant to maximise revenue. *IET Renewable Power Generation*, **2015**, 9, 379-388	2.9	17
84	Limits of thermal adaptation in cities: outdoor heat-activity dynamics in Sydney, Melbourne and Adelaide. *Architectural Science Review*, **2018**, 61, 191-201	2.6	17

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83	Development of a seagrass-fish habitat model – A Seagrass Residency Index for economically important species. *Environmetrics*, **2000**, 11, 541-552	1.3	17
82	Climate change adaptation and carbon emissions in green urban spaces: Case study of Adelaide. *Journal of Cleaner Production*, **2020**, 254, 120035	10.3	16
81	Generation of synthetic sequences of half-hourly temperature. *Environmetrics*, **2008**, 19, 818-835	1.3	16
80	Assessment of Heatwave Impacts. *Procedia Engineering*, **2016**, 169, 316-323		16
79	The level of complexity needed for weather data in models of solar system performance. *Solar Energy*, **2001**, 71, 187-198	6.8	15
78	Relationship between Pb relative bioavailability and bioaccessibility in phosphate amended soil: Uncertainty associated with predicting Pb immobilization efficacy using in vitro assays. *Environment International*, **2019**, 131, 104967	12.9	14
77	School Students participation in monitoring solar radiation components: Preliminary results for UVB and UVA solar radiant fluxes. *Renewable Energy*, **2012**, 39, 367-374	8.1	12
76	Forecasting intra-hour variance of photovoltaic power using a new integrated model. *Energy Conversion and Management*, **2021**, 245, 114569	10.6	12
75	Development of robust meteorological year weather data. *Renewable Energy*, **2018**, 118, 343-350	8.1	11
74	Post-processing of Solar Irradiance Forecasts from WRF Model at Reunion Island. *Energy Procedia*, **2014**, 57, 1364-1373	2.3	11
73	Maximising revenue via optimal control of a concentrating solar thermal power plant with limited storage capacity. *IET Renewable Power Generation*, **2016**, 10, 729-734	2.9	11
72	A decision-making tool for determination of storage capacity in grid-connected PV systems. *Renewable Energy*, **2018**, 128, 299-304	8.1	10
71	Heat Resilience in Public Space and Its Applications in Healthy and Low Carbon Cities. *Procedia Engineering*, **2017**, 180, 944-954		9
70	The importance of the stochastic component of climatic variables in simulating the thermal behaviour of domestic dwellings. *Solar Energy*, **1997**, 60, 359-366	6.8	9
69	Assessment of solid waste generation and treatment in the Australian economic system: A Closed Waste Supply-Use model. *Waste Management*, **2018**, 78, 346-355	8.6	9
68	Solar Energy Resource Assessment in Chile: Satellite Estimation and Ground Station Measurement. *Energy Procedia*, **2014**, 57, 1257-1265	2.3	8
67	The analytic solution of the differential equations describing heat flow in houses. *Building and Environment*, **2002**, 37, 1027-1035	6.5	8
66	Simulation of monthly rainfall totals. *ANZIAM Journal*, 46, 85		8

65	Using the skew-t copula to model bivariate rainfall distribution. *ANZIAM Journal*,51, 231		8
64	**Models of Diffuse Solar Fraction 2008**, 193-219		8
63	Changes of waste generation in Australia: Insights from structural decomposition analysis. *Waste Management*, **2019**, 83, 142-150	8.6	8
62	Diffuse fraction estimation using the BRL model and relationship of predictors under Chilean, Costa Rican and Australian climatic conditions. *Renewable Energy*, **2019**, 136, 1091-1106	8.1	8
61	Passive activity observation (PAO) method to estimate outdoor thermal adaptation in public space: case studies in Australian cities. *International Journal of Biometeorology*, **2020**, 64, 231-242	3.7	8
60	Performance Analysis for One-Step-Ahead Forecasting of Hybrid Solar and Wind Energy on Short Time Scales. *Energies*, **2018**, 11, 1119	3.1	7
59	Analysis of Wind Farm Output: Estimation of Volatility Using High-Frequency Data. *Environmental Modeling and Assessment*, **2013**, 18, 481-492	2	7
58	Retrofitting Precincts for Heatwave Resilience: Challenges and Barriers in Australian Context. *Challenges*, **2015**, 6, 3-25	3.4	7
57	Optimisation of Storage for Concentrated Solar Power Plants. *Challenges*, **2014**, 5, 473-503	3.4	6
56	Generation of synthetic solar datasets for risk analysis. *Solar Energy*, **2019**, 187, 212-225	6.8	5
55	Characterising Seasonality of Solar Radiation and Solar Farm Output. *Energies*, **2020**, 13, 471	3.1	5
54	Conditional value-at-risk for water management in Lake Burley Griffin. *ANZIAM Journal*,47, 116		5
53	On the use of BRL model for daily and hourly solar radiation components assessment in a semiarid climate. *European Physical Journal Plus*, **2020**, 135, 1	3.1	5
52	Value of deterministic day-ahead forecasts of PV generation in PV + Storage operation for the Australian electricity market. *Solar Energy*, **2021**, 224, 672-684	6.8	5
51	Effects of Australian Economic Activities on Waste Generation and Treatment. *Recycling*, **2017**, 2, 12	3.2	4
50	Preliminary analysis on hybrid Box-Jenkins - GARCH modeling in forecasting gold price **2015**,		4
49	Simplifying the solution of the differential equations which describe heat flows in domestic dwellings. *Building and Environment*, **1997**, 32, 479-484	6.5	4
48	Estimation of the Thermal Sensitivity of a Dwelling to Variations in Architectural and Behavioural Parameters. *Environmental Modeling and Assessment*, **2003**, 8, 101-113	2	4

47	Investigation of the Influence of Seagrass on Fisheries Catch Level Using Isotonic Regression. *Environmental Modeling and Assessment*, **2003**, 8, 285-290	2	4
46	Towards an extended framework for the general dynamic theory of biogeography. *Journal of Biogeography*, **2020**, 47, 2554-2566	4.1	4
45	Nonparametric Conditional Heteroscedastic Hourly Probabilistic Forecasting of Solar Radiation. *J*, **2018**, 1, 174-191	1.9	4
44	Generating Synthetic Rainfall Total Using Multivariate Skew-t and Checkerboard Copula of Maximum Entropy. *Water Resources Management*, **2017**, 31, 1729-1744	3.7	3
43	Quantification of indirect waste generation and treatment arising from Australian household consumption: A waste input-output analysis. *Journal of Cleaner Production*, **2020**, 258, 120935	10.3	3
42	Australian electricity market and price volatility. *Annals of Operations Research*, **2016**, 241, 357-372	3.2	3
41	Quasi-Latin designs. *Electronic Journal of Statistics*, **2012**, 6,	1.2	3
40	Optimal Control of Age-structured Populations in Economy, Demography, and the Environment **2013**,		3
39	Generation of Synthetic Sequences of Electricity Demand with Applications. *Profiles in Operations Research*, **2009**, 275-314	1	3
38	Influence of adhesive drapes on intraperitoneal volume and pressure during laparoscopy. *ANZ Journal of Surgery*, **2002**, 72, 553-6	1	3
37	Climate Change on the Menu?: A Retrospective Look at the Development of South Australian Municipal Food Waste Policy. *International Journal of Climate Change: Impacts and Responses*, **2012**, 3, 101-112	1.3	3
36	A novel ensemble learning approach for hourly global solar radiation forecasting. *Neural Computing and Applications*,1	4.8	3
35	MODELLING AND SIMULATION OF VOLUMETRIC RAINFALL FOR A CATCHMENT IN THE MURRAY-DARLING BASIN. *ANZIAM Journal*, **2016**, 58, 119-142	0.5	3
34	Evaluating the Performance of a Hydrological Model to Represent Curbside Distributed Infiltration Wells in a Residential Catchment. *Journal of Hydrologic Engineering - ASCE*, **2021**, 26, 04021027	1.8	3
33	Achieving waiting list reform: a pilot program integrating waiting time, category and patient factors. *Australian Health Review*, **2012**, 36, 248-53	1.8	2
32	Time series model for real-time forecasting of Australian photovoltaic solar farms power output. *Journal of Renewable and Sustainable Energy*, **2021**, 13, 046102	2.5	2
31	Impacts of urban form and urban heat island on the outdoor thermal comfort: a pilot study on Mashhad. *International Journal of Biometeorology*, **2021**, 65, 1101-1117	3.7	2
30	Dust Event Impact on Photovoltaic Systems : Role of humidity in soiling and self-cleaning **2018**,		2

29	Assessing one-minute diffuse fraction models based on worldwide climate features. *Renewable Energy*, **2021**, 177, 700-714	8.1	2
28	Income Driven Patterns of the Urban Environment. *Sustainability*, **2017**, 9, 275	3.6	1
27	Estimating effective dust particle size from satellite observations. *Remote Sensing Applications: Society and Environment*, **2018**, 11, 186-197	2.8	1
26	Perceptions of Landscape and the Interplay between Rainfall and Vegetation. *AlterNative*, **2014**, 10, 462-477		1
25	Correlative coherence modelling of South Australian wind farms. *Renewable Energy*, **2013**, 52, 154-159	8.1	1
24	FORECASTING WIND AND SOLAR ENERGY ON SHORT TIME SCALES. *Bulletin of the Australian Mathematical Society*, **2014**, 89, 173-174	0.4	1
23	A MODEL TO DETECT GRAZING SENSITIVITY OF MYOPORUM PLATYCARPUM IN THE ARID RANGELANDS OF SOUTH AUSTRALIA. *Natural Resource Modelling*, **2008**, 19, 587-607	1.2	1
22	Forecasting of Wind and Solar Farm Output in the Australian National Electricity Market: A Review. *Energies*, **2022**, 15, 370	3.1	1
21	Interannual Variability of Meteorological Parameters in Temperate Climates **2000**, 353-361		1
20	A proposed long-term thermal comfort scale. *Building Research and Information*, **2021**, 49, 661-678	4.3	1
19	Probabilistic Forecasting of Wind and Solar Farm Output. *Energies*, **2021**, 14, 5154	3.1	1
18	Short-Term Deterministic Solar Irradiance Forecasting Considering a Heuristics-Based, Operational Approach. *Energies*, **2021**, 14, 6005	3.1	1
17	Principles and Key Applications: Principles and Applications of Synthetic Solar Irradiance **2021**, 1-32		1
16	Modelling the diffuse fraction of global solar radiation on a horizontal surface **2001**, 12, 103		1
15	Potential residential tree arrangement to optimise dwelling energy efficiency. *Energy and Buildings*, **2022**, 261, 111962	7	1
14	Stormwater runoff reduction benefits of distributed curbside infiltration devices in an urban catchment.. *Water Research*, **2022**, 215, 118273	12.5	1
13	Characterizing the Stormwater Runoff Quality and Evaluating the Performance of Curbside Infiltration Systems to Improve Stormwater Quality of an Urban Catchment. *Water (Switzerland)*, **2022**, 14, 14	3	1
12	Sustainability Challenges, Human Diet and Environmental Concerns **2017**, 48-77		0

List of Publications

11	The role of residential tree arrangement: A scoping review of energy efficiency in temperate to subtropical climate zones. *Renewable and Sustainable Energy Reviews*, **2022**, 158, 112155	16.2	0
10	Small area estimation by multilevel models applied to the Vietnam Living Standards Surveys. *Statistical Journal of the IAOS*, **2017**, 33, 671-681	0.7	
9	Rainfall Enhances Vegetation Growth but Does the Reverse Hold?. *Water (Switzerland)*, **2014**, 6, 2127-2143		
8	DEVELOPING AGE-SIZE RELATIONSHIPS FOR LONG LIVED TREE SPECIES. *Journal of Biological Systems*, **2014**, 22, 309-326	1.6	
7	Recent advances in Modelling Diffuse Radiation **2008**, 2583-2587		
6	Stormwater Management in a Sequence of Interconnected Storage Systems **2002**, 1		
5	The Analytic Solution of the Differential Equations Describing Heat Flow in Houses **2000**, 27-32		
4	Stochastic Optimal Control of a Solar Car. *Applied Optimization*, **2001**, 71-81		
3	How to cope with heat waves in the home 354-363		
2	Are the Dietary Guidelines for Meat, Fat, Fruit and Vegetable Consumption Appropriate for Environmental Sustainability? A Review of the Literature **2016**, 263-280		
1	Analyzing the impact of hydrological storage and connected impervious area on the performance of distributed kerbside infiltration systems in an urban catchment. *Journal of Hydrology*, **2022**, 608, 127625	6	