

John Boland

List of Publications by Year in descending order

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143
papers

4,580
citations

109311

35
h-index

114455

63
g-index

150
all docs

150
docs citations

150
times ranked

4389
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of solar irradiance forecasting methods and a proposition for small-scale insular grids. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 65-76.	16.4	565
2	Forecasting solar radiation on an hourly time scale using a Coupled AutoRegressive and Dynamical System (CARDS) model. <i>Solar Energy</i> , 2013, 87, 136-149.	6.1	212
3	Modelling of diffuse solar fraction with multiple predictors. <i>Renewable Energy</i> , 2010, 35, 478-483.	8.9	209
4	Models of diffuse solar radiation. <i>Renewable Energy</i> , 2008, 33, 575-584.	8.9	154
5	Compiling and using input-output frameworks through collaborative virtual laboratories. <i>Science of the Total Environment</i> , 2014, 485-486, 241-251.	8.0	151
6	Verification of deterministic solar forecasts. <i>Solar Energy</i> , 2020, 210, 20-37.	6.1	142
7	Preliminary survey on site-adaptation techniques for satellite-derived and reanalysis solar radiation datasets. <i>Solar Energy</i> , 2016, 132, 25-37.	6.1	136
8	Modelling the diffuse fraction of global solar radiation on a horizontal surface. <i>Environmetrics</i> , 2001, 12, 103-116.	1.4	121
9	Are the Dietary Guidelines for Meat, Fat, Fruit and Vegetable Consumption Appropriate for Environmental Sustainability? A Review of the Literature. <i>Nutrients</i> , 2014, 6, 2251-2265.	4.1	112
10	Artificial neural network modeling and analysis of photovoltaic/thermal system based on the experimental study. <i>Energy Conversion and Management</i> , 2019, 186, 368-379.	9.2	108
11	Post-processing of solar irradiance forecasts from WRF model at Reunion Island. <i>Solar Energy</i> , 2014, 105, 99-108.	6.1	82
12	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. <i>Sustainability</i> , 2015, 7, 4707-4726.	3.2	76
13	Estimating the potential for solar energy utilization in Chile by satellite-derived data and ground station measurements. <i>Solar Energy</i> , 2015, 121, 139-151.	6.1	76
14	Heat stress risk and resilience in the urban environment. <i>Sustainable Cities and Society</i> , 2016, 26, 278-288.	10.4	76
15	Impact of climate change on the design of energy efficient residential building envelopes. <i>Energy and Buildings</i> , 2015, 87, 142-154.	6.7	75
16	Decomposing global solar radiation into its direct and diffuse components. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 749-756.	16.4	74
17	Policy insights from a green supply chain optimisation model. <i>International Journal of Production Research</i> , 2015, 53, 6522-6533.	7.5	73
18	The economic contribution of seagrass to secondary production in South Australia. <i>Ecological Modelling</i> , 2006, 196, 163-172.	2.5	71

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19	Time-series analysis of climatic variables. <i>Solar Energy</i> , 1995, 55, 377-388.	6.1	63
20	Nonparametric short-term probabilistic forecasting for solar radiation. <i>Solar Energy</i> , 2016, 133, 465-475.	6.1	63
21	Validation of the Predictive Capabilities of the Sbrc-G in Vitro Assay for Estimating Arsenic Relative Bioavailability in Contaminated Soils. <i>Environmental Science & Technology</i> , 2014, 48, 12962-12969.	10.0	56
22	The Mekong's applications 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. <i>Ecological Modelling</i> , 2007, 201, 89-96.	2.5	52
23	Evaluation of the environmental impact of weekly food consumption in different socio-economic households in Australia using environmentally extended input-output analysis. <i>Ecological Economics</i> , 2015, 111, 58-64.	5.7	52
24	Short term solar radiation forecasting: Island versus continental sites. <i>Energy</i> , 2016, 113, 186-192.	8.8	50
25	Estimating informal household food waste in developed countries: The case of Australia. <i>Waste Management and Research</i> , 2014, 32, 1254-1258.	3.9	49
26	Drivers and barriers to heat stress resilience. <i>Science of the Total Environment</i> , 2016, 571, 603-614.	8.0	47
27	Resolution of the cloud enhancement problem for one-minute diffuse radiation prediction. <i>Renewable Energy</i> , 2018, 125, 472-484.	8.9	47
28	Spatial-temporal forecasting of solar radiation. <i>Renewable Energy</i> , 2015, 75, 607-616.	8.9	45
29	Generation of synthetic sequences of electricity demand: Application in South Australia. <i>Energy</i> , 2007, 32, 2230-2243.	8.8	43
30	Satellite-augmented diffuse solar radiation separation models. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	42
31	Evaluating tilted plane models for solar radiation using comprehensive testing procedures, at a southern hemisphere location. <i>Renewable Energy</i> , 2013, 51, 124-131.	8.9	41
32	Assessing net energy consumption of Australian economy from 2004-05 to 2014-15: Environmentally-extended input-output analysis, structural decomposition analysis, and linkage analysis. <i>Applied Energy</i> , 2019, 240, 766-777.	10.1	41
33	Forecasting intra-hour variance of photovoltaic power using a new integrated model. <i>Energy Conversion and Management</i> , 2021, 245, 114569.	9.2	41
34	Artificial Neural Network models for estimating daily solar global UV, PAR and broadband radiant fluxes in an eastern Mediterranean site. <i>Atmospheric Research</i> , 2015, 152, 138-145.	4.1	40
35	Predicting Arsenic Relative Bioavailability Using Multiple in Vitro Assays: Validation of in Vivo in Vitro Correlations. <i>Environmental Science & Technology</i> , 2015, 49, 11167-11175.	10.0	39
36	Integrating climate change into meteorological weather data for building energy simulation. <i>Energy and Buildings</i> , 2019, 183, 749-760.	6.7	38

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37	Can the Excess Heat Factor Indicate Heatwave-Related Morbidity? A Case Study in Adelaide, South Australia. <i>EcoHealth</i> , 2016, 13, 100-110.	2.0	37
38	Climate change adaptation and carbon emissions in green urban spaces: Case study of Adelaide. <i>Journal of Cleaner Production</i> , 2020, 254, 120035.	9.3	36
39	Bayesian statistical analysis applied to solar radiation modelling. <i>Renewable Energy</i> , 2013, 49, 124-127.	8.9	35
40	Heat stress-resistant building design in the Australian context. <i>Energy and Buildings</i> , 2018, 158, 290-299.	6.7	35
41	Policy recommendations to increase urban heat stress resilience. <i>Urban Climate</i> , 2018, 25, 51-63.	5.7	35
42	Predictive Models for Photovoltaic Electricity Production in Hot Weather Conditions. <i>Energies</i> , 2017, 10, 971.	3.1	34
43	Understanding South Australian rainfall trends and step changes. <i>International Journal of Climatology</i> , 2015, 35, 348-360.	3.5	33
44	Resilience to heat in public space: a case study of Adelaide, South Australia. <i>Journal of Environmental Planning and Management</i> , 2016, 59, 1833-1854.	4.5	33
45	Scenario generation and probabilistic forecasting analysis of spatio-temporal wind speed series with multivariate autoregressive volatility models. <i>Applied Energy</i> , 2019, 239, 1226-1241.	10.1	33
46	Comparing diffuse radiation models with one predictor for partitioning incident PAR radiation into its diffuse component in the eastern Mediterranean basin. <i>Renewable Energy</i> , 2010, 35, 1820-1827.	8.9	32
47	The viability of electrical energy storage for low-energy households. <i>Solar Energy</i> , 2017, 155, 1216-1224.	6.1	32
48	Matching the grade correlation coefficient using a copula with maximum disorder. <i>Journal of Industrial and Management Optimization</i> , 2007, 3, 305-312.	1.3	32
49	Estimating industrial solid waste and municipal solid waste data at high resolution using economic accounts: an input-output approach with Australian case study. <i>Journal of Material Cycles and Waste Management</i> , 2016, 18, 677-686.	3.0	31
50	Time Series Modelling of Solar Radiation. , 2008, , 283-312.		31
51	Assessment of Heatwave Impacts. <i>Procedia Engineering</i> , 2016, 169, 316-323.	1.2	29
52	Relationship between Pb relative bioavailability and bioaccessibility in phosphate amended soil: Uncertainty associated with predicting Pb immobilization efficacy using in vitro assays. <i>Environment International</i> , 2019, 131, 104967.	10.0	29
53	Generating Synthetic Rainfall on Various Timescales—Daily, Monthly and Yearly. <i>Environmental Modeling and Assessment</i> , 2009, 14, 431-438.	2.2	28
54	A Waste Supply-Use Analysis of Australian Waste Flows. <i>Journal of Economic Structures</i> , 2014, 3, .	1.6	27

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55	Assessment of solar radiation components in Brazil using the BRL model. <i>Renewable Energy</i> , 2017, 108, 569-580.	8.9	26
56	Limits of thermal adaptation in cities: outdoor heat-activity dynamics in Sydney, Melbourne and Adelaide. <i>Architectural Science Review</i> , 2018, 61, 191-201.	2.2	26
57	Value of deterministic day-ahead forecasts of PV generation in PV+Storage operation for the Australian electricity market. <i>Solar Energy</i> , 2021, 224, 672-684.	6.1	25
58	Controlling stored energy in a concentrating solar thermal power plant to maximise revenue. <i>IET Renewable Power Generation</i> , 2015, 9, 379-388.	3.1	24
59	Generation of synthetic sequences of half-hourly temperature. <i>Environmetrics</i> , 2008, 19, 818-835.	1.4	23
60	Impacts of urban form and urban heat island on the outdoor thermal comfort: a pilot study on Mashhad. <i>International Journal of Biometeorology</i> , 2021, 65, 1101-1117.	3.0	23
61	Development of a seagrass-fish habitat model?: A Seagrass Residency Index for economically important species. <i>Environmetrics</i> , 2000, 11, 541-552.	1.4	22
62	A novel ensemble learning approach for hourly global solar radiation forecasting. <i>Neural Computing and Applications</i> , 2022, 34, 2983-3005.	5.6	20
63	The level of complexity needed for weather data in models of solar system performance. <i>Solar Energy</i> , 2001, 71, 187-198.	6.1	18
64	Assessing one-minute diffuse fraction models based on worldwide climate features. <i>Renewable Energy</i> , 2021, 177, 700-714.	8.9	17
65	Heat Resilience in Public Space and Its Applications in Healthy and Low Carbon Cities. <i>Procedia Engineering</i> , 2017, 180, 944-954.	1.2	16
66	Development of robust meteorological year weather data. <i>Renewable Energy</i> , 2018, 118, 343-350.	8.9	15
67	Generation of synthetic solar datasets for risk analysis. <i>Solar Energy</i> , 2019, 187, 212-225.	6.1	15
68	Maximising revenue via optimal control of a concentrating solar thermal power plant with limited storage capacity. <i>IET Renewable Power Generation</i> , 2016, 10, 729-734.	3.1	14
69	Changes of waste generation in Australia: Insights from structural decomposition analysis. <i>Waste Management</i> , 2019, 83, 142-150.	7.4	14
70	Simulation of monthly rainfall totals. <i>ANZIAM Journal</i> , 0, 46, 85.	0.0	14
71	The importance of the stochastic component of climatic variables in simulating the thermal behaviour of domestic dwellings. <i>Solar Energy</i> , 1997, 60, 359-366.	6.1	13
72	Post-processing of Solar Irradiance Forecasts from WRF Model at Reunion Island. <i>Energy Procedia</i> , 2014, 57, 1364-1373.	1.8	13

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73	A decision-making tool for determination of storage capacity in grid-connected PV systems. <i>Renewable Energy</i> , 2018, 128, 299-304.	8.9	13
74	School Students participation in monitoring solar radiation components: Preliminary results for UVB and UVA solar radiant fluxes. <i>Renewable Energy</i> , 2012, 39, 367-374.	8.9	12
75	Characterising Seasonality of Solar Radiation and Solar Farm Output. <i>Energies</i> , 2020, 13, 471.	3.1	11
76	The analytic solution of the differential equations describing heat flow in houses. <i>Building and Environment</i> , 2002, 37, 1027-1035.	6.9	10
77	Solar Energy Resource Assessment in Chile: Satellite Estimation and Ground Station Measurement. <i>Energy Procedia</i> , 2014, 57, 1257-1265.	1.8	10
78	Assessment of solid waste generation and treatment in the Australian economic system: A Closed Waste Supply-Use model. <i>Waste Management</i> , 2018, 78, 346-355.	7.4	10
79	Diffuse fraction estimation using the BRL model and relationship of predictors under Chilean, Costa Rican and Australian climatic conditions. <i>Renewable Energy</i> , 2019, 136, 1091-1106.	8.9	10
80	Quantification of indirect waste generation and treatment arising from Australian household consumption: A waste input-output analysis. <i>Journal of Cleaner Production</i> , 2020, 258, 120935.	9.3	10
81	Models of Diffuse Solar Fraction. , 2008, , 193-219.		10
82	Using the skew-t copula to model bivariate rainfall distribution. <i>ANZIAM Journal</i> , 0, 51, 231.	0.0	10
83	Analysis of Wind Farm Output: Estimation of Volatility Using High-Frequency Data. <i>Environmental Modeling and Assessment</i> , 2013, 18, 481-492.	2.2	9
84	Passive activity observation (PAO) method to estimate outdoor thermal adaptation in public space: case studies in Australian cities. <i>International Journal of Biometeorology</i> , 2020, 64, 231-242.	3.0	9
85	Potential residential tree arrangement to optimise dwelling energy efficiency. <i>Energy and Buildings</i> , 2022, 261, 111962.	6.7	9
86	Retrofitting Precincts for Heatwave Resilience: Challenges and Barriers in Australian Context. <i>Challenges</i> , 2015, 6, 3-25.	1.7	8
87	On the use of BRL model for daily and hourly solar radiation components assessment in a semiarid climate. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	8
88	Optimisation of Storage for Concentrated Solar Power Plants. <i>Challenges</i> , 2014, 5, 473-503.	1.7	7
89	Performance Analysis for One-Step-Ahead Forecasting of Hybrid Solar and Wind Energy on Short Time Scales. <i>Energies</i> , 2018, 11, 1119.	3.1	7
90	Australian electricity market and price volatility. <i>Annals of Operations Research</i> , 2016, 241, 357-372.	4.1	6

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91	Towards an extended framework for the general dynamic theory of biogeography. Journal of Biogeography, 2020, 47, 2554-2566.	3.0	6
92	A proposed long-term thermal comfort scale. Building Research and Information, 2021, 49, 661-678.	3.9	6
93	Stormwater runoff reduction benefits of distributed curbside infiltration devices in an urban catchment. Water Research, 2022, 215, 118273.	11.3	6
94	Simplifying the solution of the differential equations which describe heat flows in domestic dwellings. Building and Environment, 1997, 32, 479-484.	6.9	5
95	Preliminary analysis on hybrid Box-Jenkins - GARCH modeling in forecasting gold price. , 2015, , .		5
96	Generating Synthetic Rainfall Total Using Multivariate Skew-t and Checkerboard Copula of Maximum Entropy. Water Resources Management, 2017, 31, 1729-1744.	3.9	5
97	Dust Event Impact on Photovoltaic Systems : Role of humidity in soiling and self-cleaning. , 2018, , .		5
98	Time series model for real-time forecasting of Australian photovoltaic solar farms power output. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	5
99	Conditional value-at-risk for water management in Lake Burley Griffin. ANZIAM Journal, 0, 47, 116.	0.0	5
100	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.	16.4	5
101	Influence of adhesive drapes on intraperitoneal volume and pressure during laparoscopy. ANZ Journal of Surgery, 2002, 72, 553-556.	0.7	4
102	Title is missing!. Environmental Modeling and Assessment, 2003, 8, 101-113.	2.2	4
103	Investigation of the Influence of Seagrass on Fisheries Catch Level Using Isotonic Regression. Environmental Modeling and Assessment, 2003, 8, 285-290.	2.2	4
104	Effects of Australian Economic Activities on Waste Generation and Treatment. Recycling, 2017, 2, 12.	5.0	4
105	Nonparametric Conditional Heteroscedastic Hourly Probabilistic Forecasting of Solar Radiation. J, 2018, 1, 174-191.	0.9	4
106	Evaluating the Performance of a Hydrological Model to Represent Curbside Distributed Infiltration Wells in a Residential Catchment. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	4
107	Quasi-Latin designs. Electronic Journal of Statistics, 2012, 6, .	0.7	3
108	Achieving waiting list reform: a pilot program integrating waiting time, category and patient factors. Australian Health Review, 2012, 36, 248.	1.1	3

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109	FORECASTING WIND AND SOLAR ENERGY ON SHORT TIME SCALES. Bulletin of the Australian Mathematical Society, 2014, 89, 173-174.	0.5	3
110	MODELLING AND SIMULATION OF VOLUMETRIC RAINFALL FOR A CATCHMENT IN THE MURRAYâ€DARLING BASIN. ANZIAM Journal, 2016, 58, 119-142.	0.2	3
111	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.	0.3	3
112	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.	5.4	3
113	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.	2.7	3
114	Application of Laguerre Polynomials to the Simulation of Rainfall at Mawson Lakes. , 2002, , 1.		2
115	Income Driven Patterns of the Urban Environment. Sustainability, 2017, 9, 275.	3.2	2
116	Principles and Key Applications: Principles and Applications of Synthetic Solar Irradiance. , 2021, , 1-32.		2
117	Volatility of Wind Energy using High Frequency Data. , 2010, , .		2
118	Forecasting of Wind and Solar Farm Output in the Australian National Electricity Market: A Review. Energies, 2022, 15, 370.	3.1	2
119	Thermal performance of solar air heaters â€” Experimental correlation. Fuel and Energy Abstracts, 1996, 37, 201.	0.0	1
120	A MODEL TO DETECT GRAZING SENSITIVITY OF MYOPORUM PLATYCARPUM IN THE ARID RANGELANDS OF SOUTH AUSTRALIA. Natural Resource Modelling, 2008, 19, 587-607.	2.0	1
121	Correlative coherence modelling of South Australian wind farms. Renewable Energy, 2013, 52, 154-159.	8.9	1
122	Perceptions of Landscape and the Interplay between Rainfall and Vegetation. AlterNative, 2014, 10, 462-477.	1.5	1
123	Estimating effective dust particle size from satellite observations. Remote Sensing Applications: Society and Environment, 2018, 11, 186-197.	1.5	1
124	Probabilistic Forecasting of Wind and Solar Farm Output. Energies, 2021, 14, 5154.	3.1	1
125	Short-Term Deterministic Solar Irradiance Forecasting Considering a Heuristics-Based, Operational Approach. Energies, 2021, 14, 6005.	3.1	1
126	Modelling the diffuse fraction of global solar radiation on a horizontal surface. , 2001, 12, 103.		1

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127	Interannual Variability of Meteorological Parameters in Temperate Climates. , 2000, , 353-361.		1
128	Optimisation of photovoltaic system and storage. ANZIAM Journal, 0, 58, 1.	0.0	1
129	Modelling Catchment Rainfall Using Sum of Correlated Gamma Variables. Jurnal Teknologi (Sciences) Tj ETQq1 1 0.784314 rgBT /Over 0.4	0.4	1
130	Stormwater Management in a Sequence of Interconnected Storage Systems. , 2002, , 1.		0
131	Recent advances in Modelling Diffuse Radiation. , 2008, , 2583-2587.		0
132	Real-time airborne data management system. , 2009, , .		0
133	Rainfall modelling using the sum of independent gamma variables. , 2012, , .		0
134	Rainfall Enhances Vegetation Growth but Does the Reverse Hold?. Water (Switzerland), 2014, 6, 2127-2143.	2.7	0
135	DEVELOPING AGE-SIZE RELATIONSHIPS FOR LONG LIVED TREE SPECIES. Journal of Biological Systems, 2014, 22, 309-326.	1.4	0
136	Small area estimation by multilevel models applied to the Vietnam Living Standards Surveys. Statistical Journal of the IAOS, 2017, 33, 671-681.	0.4	0
137	The Analytic Solution of the Differential Equations Describing Heat Flow in Houses. , 2000, , 27-32.		0
138	Stochastic Optimal Control of a Solar Car. Applied Optimization, 2001, , 71-81.	0.4	0
139	Stochastic programming to evaluate renewable power generation for small-scale desalination. ANZIAM Journal, 0, 49, 184.	0.0	0
140	Tracking a rainfall index constrained by Conditional Value-at-Risk. ANZIAM Journal, 0, 51, 201.	0.0	0
141	Seaweed cultivation and the remediation of by-products from ethanol production: a glorious green growth. ANZIAM Journal, 0, 56, 1.	0.0	0
142	Optimisation techniques for planning automatic under frequency load shedding in New Zealand's power system. ANZIAM Journal, 0, 57, 1.	0.0	0
143	Are the Dietary Guidelines for Meat, Fat, Fruit and Vegetable Consumption Appropriate for Environmental Sustainability? A Review of the Literature. , 2016, , 263-280.		0