

Henry Louie

List of Publications by Year in descending order

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49
papers

669
citations

840776

11
h-index

940533

16
g-index

49
all docs

49
docs citations

49
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of energy-use surveys in predicting rural mini-grid user consumption. Energy for Sustainable Development, 2017, 41, 88-105.	4.5	76
2	Superconducting Magnetic Energy Storage (SMES) for Energy Cache Control in Modular Distributed Hydrogen-Electric Energy Systems. IEEE Transactions on Applied Superconductivity, 2007, 17, 2361-2364.	1.7	61
3	Effects of load estimation error on small-scale off-grid photovoltaic system design, cost and reliability. Energy for Sustainable Development, 2016, 34, 30-43.	4.5	46
4	Cache Energy Control for Storage: Power System Integration and Education Based on Analogies Derived From Computer Engineering. IEEE Transactions on Power Systems, 2009, 24, 12-19.	6.5	45
5	Evaluation of bivariate Archimedean and elliptical copulas to model wind power dependency structures. Wind Energy, 2014, 17, 225-240.	4.2	42
6	Correlation and statistical characteristics of aggregate wind power in large transcontinental systems. Wind Energy, 2014, 17, 793-810.	4.2	37
7	Rural Off-Grid Electricity Service in Sub-Saharan Africa [Technology Leaders]. IEEE Electrification Magazine, 2015, 3, 7-15.	1.8	29
8	Operational analysis of hybrid solar/wind microgrids using measured data. Energy for Sustainable Development, 2016, 31, 108-117.	4.5	29
9	Off-Grid Electrical Systems in Developing Countries. , 2018, , .		29
10	Evaluation of probabilistic models of wind plant power output characteristics. , 2010, , .		27
11	An introduction and user's guide to the IEEE Smart Grid Web Portal. , 2010, , .		20
12	Experiences in the construction of open source low technology off-grid wind turbines. , 2011, , .		18
13	Survey of energy use and costs in rural kenya for community microgrid business model development. , 2014, , .		15
14	How households adapted their energy use during the Zambian energy crisis. Energy for Sustainable Development, 2018, 44, 125-138.	4.5	15
15	Characterizing and modeling aggregate wind plant power output in large systems. , 2010, , .		14
16	Lossless Compression of Wind Plant Data. IEEE Transactions on Sustainable Energy, 2012, 3, 598-606.	8.8	14
17	Eternal Light: Ingredients for Sustainable Off-Grid Energy Development. IEEE Power and Energy Magazine, 2014, 12, 70-78.	1.6	14
18	Design of an off-grid energy kiosk in rural Zambia. , 2015, , .		13

#	ARTICLE	IF	CITATIONS
19	Probabilistic Modeling and Statistical Characteristics of Aggregate Wind Power. Green Energy and Technology, 2014, , 19-51.	0.6	12
20	Affordable energy solutions for developing communities. , 2011, , .		11
21	Resources for pre-university power engineering outreach. , 2011, , .		11
22	Fueling Sustainability: The Exponential Impact of Empowering Off-Grid Communities. IEEE Electrification Magazine, 2016, 4, 11-17.	1.8	10
23	Affordable Energy Solutions for Developing Communities. IEEE Power and Energy Magazine, 2012, 10, 89-98.	1.6	9
24	Issues and applications of real-time data from off-grid electrical systems. , 2016, , .		9
25	Hierarchical Multiobjective Optimization for Independent System Operators (ISOs) in Electricity Markets. IEEE Transactions on Power Systems, 2006, 21, 1583-1591.	6.5	8
26	Designing a sustainable business plan for an off-grid energy kiosk in Chalokwa, Zambia. , 2016, , .		7
27	Technical design of Off-grid energy kiosks. , 2016, , .		7
28	Planning for Electrification: On- and Off-Grid Considerations in Sub-Saharan Africa. IDS Bulletin, 2017, 48, .	0.8	6
29	Design and testing of a small human-powered generator for developing rural communities. , 2010, , .		5
30	On the Reliability and Life Cycle Cost Analyses of Small-scale Standalone Solar Systems in Rural Areas. , 2021, , .		5
31	Electromagnetic Field Modeling of Appropriate Technology Generators for Rural Electrification Applications. , 2011, , .		4
32	Opportunities and Challenges for Micro Wind Turbines in Developing Communities. , 2012, , .		4
33	Determining the effects of load-shedding on residential electricity consumption using meter data – A case study of Kitwe, Zambia. , 2016, , .		4
34	Estimating aggregate wind plant capacity from historical time series data. , 2009, , .		3
35	Evaluating Archimedean Copula models of wind speed for wind power modeling. , 2012, , .		3
36	Domestic electric consumers response to load-shedding: A case study of Kitwe, Zambia. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	Integration of solar energy into the Zambia power grid considering ramp rate constraints. , 2017, , .		2
38	Impact Assessment of Energy Kiosks in Rural Zambia. , 2019, , .		2
39	Design and Implementation of Off-Grid Systems. , 2018, , 387-445.		1
40	Student Design of a Sustainable Microgrid for Rural Kenya. , 2015, , 26.1413.1.		0
41	Market-based power flow control with reduced wide-area impact. , 0, , .		0
42	Integration of Capital Costs and Operating Profits into Distributed Hydrogen-Electric Power System Design. , 2006, , .		0
43	Energy market-integrative wind plant modeling for wind plant integration economic analysis. , 2008, , .		0
44	Economic analysis of power generation forecast utilization by merchant wind plants. , 2008, , .		0
45	Welcome Message from the Technical Program Committee - GHTC 2012. , 2012, , .		0
46	Remote Diagnosis of Solar Panel Performance: A Case Study of the Filibaba Energy Kiosk. , 2018, , .		0
47	Energy and Development. , 2018, , 3-20.		0
48	Load and Resource Estimation of Off-Grid Systems. , 2018, , 355-386.		0
49	Remote Assessment of Battery Degradation-Related Service Interruptions in an Energy Kiosk. , 2020, , .		0