Madan Mohan Tripathi

List of Publications by Year
in descending order

90 papers	906 citations	567281 15 h-index	610901 24 g-index
93 all docs	93 docs citations	93 times ranked	553 citing authors

#	Article	IF	Citations
1	Investigation on effect of solar energy generation on electricity price forecasting. Journal of Intelligent and Fuzzy Systems, 2022, 42, 1185-1197.	1.4	3
2	Electricity Price Forecasting Using LSTM Network and K-Means Clustering by Considering the Effect of Wind Power Generation. Lecture Notes in Electrical Engineering, 2022, , 29-41.	0.4	1
3	Comparative Analysis of Routing Protocols in Wireless Body Area Network (WBAN). , 2022, , .		14
4	A Novel Energy Efficient hybrid Metaâ€heuristic Approach (NEEMA) for wireless body area network. International Journal of Communication Systems, 2022, 35, .	2.5	21
5	Simulation of perovskite solar cell employing ZnO as electron transport layer (ETL) for improved efficiency. Materials Today: Proceedings, 2021, 46, 1684-1687.	1.8	11
6	Performance Investigation of Nanoscaled GaN-BTG MOSFET for Analog/Linearity and Low Power Applications. , 2021, , .		0
7	Numerical Simulation of GaN-BTG MOSFET for Suppression of SCEs. , 2021, , .		0
8	Design of a Novel Solar Energy Market Model for Indian Scenario. Journal of Electrical Engineering and Technology, 2021, 16, 2783.	2.0	1
9	An ensemble approach for electricity price forecasting in markets with renewable energy resources. Utilities Policy, 2021, 70, 101185.	4.0	29
10	Intelligentâ€Routing Algorithm for wireless body area networks (Iâ€RAW). International Journal of Communication Systems, 2021, 34, e4984.	2.5	22
11	Hybrid Forecasting Model Based on Nonlinear Auto-Regressive Exogenous Network, Fourier Transform, Self-organizing Map and Pattern Recognition Model for Hour Ahead Electricity Load Forecasting. Lecture Notes in Electrical Engineering, 2021, , 89-108.	0.4	0
12	Analysis of structural parameters on sensitivity of black phosphorus junctionless recessed channel MOSFET for biosensing application. Microsystem Technologies, 2020, 26, 2227-2233.	2.0	12
13	Anomaly detection in group activities based on fuzzy lattices using SchrÃ¶dinger equation. Iran Journal of Computer Science, 2020, 3, 103-114.	2.5	3
14	Performance evaluation of linearity and intermodulation distortion of nanoscale GaN-SOI FinFET for RFIC design. AEU - International Journal of Electronics and Communications, 2020, 115, 153052.	2.9	31
15	A critical and comprehensive review on power quality disturbance detection and classification. Sustainable Computing: Informatics and Systems, 2020, 28, 100417.	2.2	36
16	Gate Engineered GAA Silicon-Nanowire MOSFET for High Switching Performance. , 2020, , .		0
17	Sub-10 nm High-k Dielectric SOI-FinFET for HighPerformance Low Power Applications. , 2020, , .		7
18	Market Models and Operating Mechanism for Renewable Energy Enabled Indian Electricity Market. Technology and Economics of Smart Grids and Sustainable Energy, 2020, 5, 1.	2.6	2

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19	Synergism of Recurrent Neural Network and Fuzzy Logic for Short Term Energy Load Forecasting. , 2020, , .		4
20	Short-term PV power forecasting using empirical mode decomposition in integration with back-propagation neural network. Journal of Information and Optimization Sciences, 2020, 41, 25-37.	0.3	10
21	A hybrid model of generalized regression neural network and radial basis function neural network for wind power forecasting in Indian wind farms. Journal of Statistics and Management Systems, 2020, 23, 49-63.	0.6	5
22	Soft computing based techniques for comparative analysis of wind speed and power prediction. Journal of Information and Optimization Sciences, 2020, 41, 1-11.	0.3	3
23	Solar Power Trading Models for Restructured Electricity Market in India. Asian Journal of Water, Environment and Pollution, 2020, 17, 49-54.	0.5	5
24	Dielectric modulated transparent gate thin film transistor for biosensing applications. Materials Today: Proceedings, 2020, 28, 141-145.	1.8	12
25	Predictive analysis of RNN, GBM and LSTM network for short-term wind power forecasting. Journal of Statistics and Management Systems, 2020, 23, 33-47.	0.6	16
26	Detection of Hazardous Analyte Using Transparent Gate Thin-Film Transistor. Lecture Notes in Networks and Systems, 2020, , 197-204.	0.7	1
27	TCAD analysis of transparent gate thin film transistor (TFT) for high performance applications. AIP Conference Proceedings, 2019, , .	0.4	0
28	A novel hybrid architecture for classification of power quality disturbances. , 2019, , .		4
29	Non-Quasi-Static Small-Signal Modeling of TGRC MOSFET in Parameter Perspective for RF/Microwave Applications. , 2019, , .		0
30	Ensemble of relevance vector machines and boosted trees for electricity price forecasting. Applied Energy, 2019, 250, 540-548.	10.1	83
31	A hybrid SVM-NARX based prediction method for Indian wind power sector. Journal of Statistics and Management Systems, 2019, 22, 363-378.	0.6	2
32	Sub-30nm In2O5Sn gate electrode recessed channel MOSFET: A biosensor for early stage diagnostics. Vacuum, 2019, 164, 46-52.	3.5	19
33	A novel GA-ANFIS hybrid model for short-term solar PV power forecasting in Indian electricity market. Journal of Information and Optimization Sciences, 2019, 40, 377-395.	0.3	19
34	Carbon Nanotube Recessed Channel (CNT-RC) MOSFET for High Linearity/ULSI Applications. , 2019, , .		2
35	Weight and Bias Initialization of ANN for Load Forecasting using Cuckoo Search Algorithm. , 2019, , .		1
36	RF noise modeling of Black Phosphorus Junctionless Trench MOSFET in strong inversion region. Superlattices and Microstructures, 2019, 125, 72-79.	3.1	8

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37	Long Short-Term Memory-Convolution Neural Network Based Hybrid Deep Learning Approach for Power Quality Events Classification. Lecture Notes in Networks and Systems, 2019, , 501-510.	0.7	2
38	Comprehensive analysis of sub-20‑nm black phosphorus based junctionless-recessed channel MOSFET for analog/RF applications. Superlattices and Microstructures, 2018, 116, 171-180.	3.1	34
39	Reliability Issues of In_2O_5Sn Gate Electrode Recessed Channel MOSFET: Impact of Interface Trap Charges and Temperature. IEEE Transactions on Electron Devices, 2018, 65, 860-866.	3.0	47
40	Long term load forecasting with hourly predictions based on long-short-term-memory networks. , 2018, , .		66
41	Short-Term PV Power Forecasting Using Adaptive Neuro-Fuzzy Inference System. , 2018, , .		3
42	SVM Tuned NARX Method for Wind speed & power Prediction in Electricity Generation. , 2018, , .		2
43	Transformer Health Monitoring System Using Internet of Things. , 2018, , .		22
44	Novel intelligent controllers for Load Frequency Control of a Multi Area hybrid power System. , 2018, , .		0
45	Radiation Analysis of N-Channel TGRC-MOSFET: An X-Ray Dosimeter. IEEE Transactions on Electron Devices, 2018, 65, 5014-5020.	3.0	19
46	Ultralow-power dielectric-modulated nanogap-embedded sub-20-nm TGRC-MOSFET for biosensing applications. Journal of Computational Electronics, 2018, 17, 1807-1815.	2.5	25
47	Investigation of Different Gate Materials for Improved Device Performance in RC MOSFET. , 2018, , .		1
48	Volterra bound interval type‑2 fuzzy logic‑based approach for multiple power quality events analysis. IET Electrical Systems in Transportation, 2018, 8, 188-196.	2.4	12
49	In 2 O 5 Sn based transparent gate recessed channel MOSFET: RF small-signal model for microwave applications. AEU - International Journal of Electronics and Communications, 2018, 93, 233-241.	2.9	15
50	Investigation of parasitic capacitances of In2O5Sn gate electrode recessed channel MOSFET for ULSI switching applications. Microsystem Technologies, 2017, 23, 5867-5874.	2.0	37
51	Cognitive learning recommendation system in Indian context. , 2017, , .		2
52	Evaluation of effectiveness of ANN for feature selection based electricity price forecasting. , 2017, , .		4
53	Survey paper on sensors for body area network in health care. , 2017, , .		18
54	Reliability of high-k gate stack on transparent gate recessed channel (TGRC) MOSFET. , 2017, , .		1

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55	Influence of interface trap charge density on reliability issues of transparent gate recessed channel (TGRC) MOSFET. , 2017, , .		1
56	Small-signal modeling of In2O5Sn based transparent gate recessed channel MOSFET for microwave/RF applications. , 2017, , .		4
57	A novel hybrid approach using wavelet transform, time series time delay neural network, and error predicting algorithm for day-ahead electricity price forecasting. , 2017, , .		2
58	Artificial Neural Network based wind speed & power forecasting in US wind energy farms. , 2016, , .		13
59	Design of GPI controller for current feedback multilevel cascaded inverter. , 2016, , .		1
60	Short-term price forecasting using new wavelet-neural network with data pre filtering in ISO New England market. , 2016, , .		1
61	Artificial neural network based wind power forecasting in belgium. , 2016, , .		5
62	Short term wind speed and power forecasting in Indian and UK wind power farms. , 2016, , .		8
63	Novel hybrid price forecasting model using wavelet transform, time series time delay neural network and zero phase filter in AEMC market. , 2016, , .		0
64	Power system restructuring models in the Indian context. Electricity Journal, 2016, 29, 22-27.	2.5	11
65	Nash Commitment for Energy Trading in Liberalized Power Market: a State of Art Review. International Review of Electrical Engineering, 2016, 11, 381.	0.2	1
66	Novel design of cascaded multilevel inverter with reduced number of components. , 2015, , .		6
67	Load profile determination of consumer in a smart grid by using matrix based approach. , 2015, , .		1
68	Photovoltaic power forecasting methods in smart power grid. , 2015, , .		22
69	Design of Single Phase Multilevel Cascade Inverter Using GPI Controller. , 2015, , .		0
70	Hourly load and price forecasting using ANN and fourier analysis. , 2014, , .		1
71	An analysis of short-term price forecasting of power market by using ANN. , 2014, , .		0
72	A novel wavelet modulation scheme for single phase inverter. , 2014, , .		0

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73	Implementation of different optimization techniques to solve ELD problem. , 2014, , .		4
74	A novel wavelet modulation scheme for single phase inverter. , 2014, , .		0
75	Short-term load forecasting of Ontario Electricity Market by considering the effect of temperature. , 2014, , .		2
76	Modified hysteresis switching scheme for 3-phase voltage source inverter. , 2014, , .		0
77	Implementation of different optimization techniques to solve ELD problem. , 2014, , .		0
78	Short-term load forecasting of UPPCL using ANN. , 2014, , .		4
79	Design of adjustable blade wind turbine for constant generated power. , 2014, , .		0
80	An analysis of short-term price forecasting of power market by using ANN. , 2014, , .		6
81	Short-term load forecasting of Ontario Electricity Market by considering the effect of temperature. , 2014, , .		0
82	Short-term load forecasting of UPPCL using ANN. , 2014, , .		2
83	Modified hysteresis switching scheme for 3-phase voltage source inverter. , 2014, , .		0
84	Day ahead hourly load forecast of PJM electricity market and iso new england market by using artificial neural network. , 2014, , .		23
85	Design of adjustable blade wind turbine for constant generated power. , 2014, , .		3
86	Day ahead hourly load forecast of PJM electricity market and ISO New England market by using artificial neural network. , 2013, , .		14
87	Day ahead hourly load and price forecast in ISO New England market using ANN. , 2013, , .		22
88	Soft computing applications in wind speed and power prediction for wind energy. , 2012, , .		7
89	Short-Term Load Forecasting Using Generalized Regression and Probabilistic Neural Networks in the Electricity Market. Electricity Journal, 2008, 21, 24-34.	2.5	40
90	24-Hour ahead PV power forecasting based on the univariate hybrid machine learning model. International Journal of Ambient Energy, 0, , 1-20.	2.5	2