

Selvan M P

List of Publications by Year in Descending Order

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Version: 2024-04-18

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

709

citations

13

h-index

23

g-index

109

ext. papers

928

ext. citations

2.3

avg, IF

4.81

L-index

#	Paper	IF	Citations
88	Feasibility assessment of utilizing electric vehicles for energy arbitrage in smart grids considering battery degradation cost. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 4664-4678	1.6	1
87	Demand Response in Smart Residential Buildings. <i>Algorithms for Intelligent Systems</i> , 2021 , 361-390	0.5	
86	Assessment of compliance of phasor measurement units (PMUs) for smart grid applications. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12835	2.2	0
85	M Class Synchrophasor Compliance for Real-time Monitoring of Smart Power Systems. <i>Journal of the Institution of Engineers (India): Series B</i> , 2021 , 102, 713	0.9	1
84	Demand Response Frameworks for Smart Residential Buildings. <i>Power Systems</i> , 2021 , 93-130	0.4	
83	Predictive current control of FL-shunt active power filter for dynamic and heterogeneous load compensation. <i>Electrical Engineering</i> , 2021 , 103, 2147-2160	1.5	1
82	Smart residential electricity distribution system (SREDS) for demand response under smart grid environment. <i>CSI Transactions on ICT</i> , 2020 , 8, 231-234	0.4	
81	Framework of locality electricity trading system for profitable peer-to-peer power transaction in locality electricity market. <i>IET Smart Grid</i> , 2020 , 3, 318-330	2.7	9
80	Systematized Active Power Control of PMSG-Based Wind-Driven Generators. <i>IEEE Systems Journal</i> , 2020 , 14, 708-717	4.3	2
79	Smart Load Node for Nonsmart Load Under Smart Grid Paradigm: A New Home Energy Management System. <i>IEEE Consumer Electronics Magazine</i> , 2019 , 8, 22-27	3.2	15
78	Experimental Investigation on a New Hybrid System Employing Wind-Driven DFIG and Solar PV Panels. <i>Journal of the Institution of Engineers (India): Series B</i> , 2019 , 100, 561-574	0.9	3
77	Smart residential energy management system for demand response in buildings with energy storage devices. <i>Frontiers in Energy</i> , 2019 , 13, 715-730	2.6	12
76	Alleviation of Power Quality Issues Caused by Electric Arc Furnace Load in Power Distribution System Using 3-Phase Four-Leg DSTATCOM. <i>Journal of the Institution of Engineers (India): Series B</i> , 2019 , 100, 9-22	0.9	12
75	Effective algorithm for fault discrimination and estimation of fault location in transmission lines. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 2789-2798	2.5	12
74	An electric power trading framework for smart residential community in smart cities. <i>IET Smart Cities</i> , 2019 , 1, 40-51	3.8	11
73	Realization of Self-Demand Response Through Non-Intrusive Load Monitoring Algorithm 2019 ,		1
72	Agent-based system to control the air-conditioner and EV charging for residents in smart cities. <i>IET Smart Cities</i> , 2019 , 1, 71-80	3.8	1

71	Performance evaluation of FPGA-based predictive current controller for FL-DSTATCOM in electric distribution system. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 4400-4409	2.5	17
70	Intelligent Residential Energy Management System for Dynamic Demand Response in Smart Buildings. <i>IEEE Systems Journal</i> , 2018 , 12, 1329-1340	4.3	107
69	Prosumer Based Demand Response for Profitable Power Exchange Between End-User and Utility 2018 ,		1
68	FPGA-based closed-loop monitoring and control of doubly fed induction generator with single inverter and battery for wind energy conversion. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2018 , 15, 175-183	0.6	0
67	Performance analysis of FPGA controlled four-leg DSTATCOM for multifarious load compensation in electric distribution system 2018 , 21, 692-703		3
66	A comprehensive embedded solution for data acquisition and communication using FPGA. <i>Journal of Applied Research and Technology</i> , 2017 , 15, 45-53	1.7	3
65	Design and Implementation of an Algorithm for Diagnosis of Load Encroachment in EHV Lines. <i>Energy Procedia</i> , 2017 , 117, 519-526	2.3	1
64	Regression based approach for measurement of current in single-phase smart energy meter 2017 ,		5
63	Modelling and Control of Transformer-less Universal Power Quality Conditioner (TUnPQC): An Effective Solution for Power Quality Enhancement in Distribution System. <i>Journal of Control, Automation and Electrical Systems</i> , 2017 , 28, 123-134	1.5	8
62	Dynamic demand response in smart buildings using an intelligent residential load management system. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 4348-4357	2.5	29
61	Enhanced method of rotor speed and position estimation of permanent magnet synchronous Machine based on stator SRF-PLL 2017 , 20, 1450-1459		1
60	Demand response in smart buildings through time-varying priority of household appliances 2017 ,		3
59	Online condition monitoring and power management system for standalone micro-grid using FPGAs. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 3875-3884	2.5	17
58	Capability evaluation of four-leg DSTATCOM for compensating multifarious loads. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2016 , 13, 229-243	0.6	9
57	Performance Evaluation of FPGA-Controlled DSTATCOM for Load Compensation. <i>Arabian Journal for Science and Engineering</i> , 2016 , 41, 3355-3367		3
56	Very short term prediction of solar radiation for residential load scheduling in smartgrid 2016 ,		2
55	Predictive current control of distribution static compensator for load compensation in distribution system. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2410-2423	2.5	21
54	Effect of electrical parameters on morphology and in-vitro corrosion resistance of plasma electrolytic oxidized films formed on zirconium. <i>Surface and Coatings Technology</i> , 2015 , 269, 286-294	4.4	34

53	Design, Operation, and Control of S3 Inverter for Single-Phase Microgrid Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5569-5577	8.9	11
52	Analysis of FACTS devices on Security Constrained Unit Commitment problem. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 66, 280-293	5.1	10
51	. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3703-3711	7.2	11
50	An effective implementation of Phasor measurement unit (PMU) by using non-recursive DFT algorithm 2015 ,		6
49	Short circuit analysis and adaptive zonal protection of distribution system with distributed generators 2015 ,		3
48	A simple digital control algorithm for three phase shunt active filter: simulation and experimentation. <i>Frontiers in Energy</i> , 2014 , 8, 119-128	2.6	3
47	Unit size optimization of Hybrid Energy System 2014 ,		1
46	Simplified embedded control scheme for two-stage multistring off-grid inverter. <i>IET Power Electronics</i> , 2014 , 7, 2954-2963	2.2	3
45	Performance of custom power devices in SCIG based Wind farms during abnormal grid conditions 2014 ,		1
44	Load scheduling for smart energy management in residential buildings with renewable sources 2014 ,		4
43	Application of D-STATCOM in SCIG based windfarms during normal and abnormal grid conditions 2014 ,		2
42	Hierarchical Agglomerative Clustering Algorithm method for distributed generation planning. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 56, 259-269	5.1	14
41	Enhancement of voltage stability margin in radial distribution system with squirrel cage induction generator based distributed generators. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 898-906	2.5	28
40	FPGA based control scheme for a single-stage grid-connected solar photovoltaic system 2013 ,		3
39	Performance analysis of distribution network with optimally sized WTGS based DGs considering wind speed variation 2013 ,		4
38	Investigation on Series Active Filter with Small Energy Source for DC Voltage Control. <i>Communications in Computer and Information Science</i> , 2013 , 281-286	0.3	1
37	Optimal location of interline power flow controller in a power system network using ABC algorithm 2013 , 62, 91-110		10
36	FPGA based microstepping scheme for stepper motor in Space-Based Solar Power Systems 2012 ,		6

35	Distributed Generation Planning: A New Approach Based on Goal Programming. <i>Electric Power Components and Systems</i> , 2012 , 40, 497-512	1	40
34	Performance analysis of UPQC with heterogeneous control during load power factor variation. <i>European Transactions on Electrical Power</i> , 2012 , 22, 937-960		3
33	Comparative evaluation of modelling methods for TCSC in optimal power flow studies 2012 ,		5
32	Real-time object tracking in a video stream using Field Programmable Gate Array 2012 ,		2
31	Optimal power flow incorporating thyristor controller series compensator using Differential Evolution 2012 ,		3
30	Novel Coordinated Converter Control (3C) Strategy for Enhancement of Fault Ride-through Capability of Doubly Fed Induction Generator Wind Farms. <i>Electric Power Components and Systems</i> , 2011 , 39, 1493-1506	1	5
29	A Combined Mode of Control for Unified Power Quality Conditioner Connected to a Low Voltage Distribution System. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2011 , 8, 257-270	0.6	4
28	Capacity Evaluation and Identification of Grid Integration Points of Distributed Generation in a Distribution System. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2011 , 8, 137-153	0.6	1
27	Fuzzy Embedded Genetic Algorithm Method for Distributed Generation Planning. <i>Electric Power Components and Systems</i> , 2011 , 39, 346-366	1	52
26	Novel scheme for enhancement of fault ride-through capability of doubly fed induction generator based wind farms. <i>Energy Conversion and Management</i> , 2011 , 52, 2651-2658	10.6	34
25	Investigation on rating of shunt APF in unified power quality conditioner 2011 ,		1
24	Effect of Reference Generation Schemes on the Performance of Shunt Active Filter: A Comparison. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 253-259	0.2	0
23	Power flow analysis incorporating firing angle model based TCSC 2010 ,		6
22	Impact of DG model and load model on placement of multiple DGs in distribution system 2010 ,		9
21	Indigenous control of augmented DC voltage in D-Statcom 2010 ,		1
20	Enhanced Fault Ride-through Scheme for Mitigating Rotor Speed Instability of Doubly Fed Induction Generator Based Wind Farms. <i>Wind Engineering</i> , 2010 , 34, 445-460	1.2	2
19	Comparative evaluation of performance of different control strategies on UPQC connected distribution system 2010 ,		6
18	Grid Integration of Distributed Generation Consequences on Node Voltage under Grid Perturbations. <i>Wind Engineering</i> , 2010 , 34, 629-650	1.2	2

17	Control Scheme for Mitigation of Output Power Fluctuations in Grid Connected Wound Rotor Induction Generator. <i>Wind Engineering</i> , 2010 , 34, 579-593	1.2	2
16	Object-Oriented Optimal Power Flow: A New Approach Based on Design Patterns. <i>Electric Power Components and Systems</i> , 2009 , 38, 197-211	1	1
15	Planning and operation of Distributed Generations in distribution systems for improved voltage profile 2009 ,		4
14	Mitigation of output power fluctuations in wind farms with Opti-slip induction generator 2009 ,		1
13	A simplified approach for load flow analysis of radial distribution network with embedded generation 2008 ,		5
12	Unbalanced distribution system short circuit analysis In Object-Oriented Approach 2008 ,		1
11	A Hybrid Genetic Algorithm based Power System Stabilizer 2007 ,		6
10	Dynamic topology processing in a radial distribution system. <i>IET Generation, Transmission and Distribution</i> , 2006 , 153, 155		4
9	Object Modeling of Balanced and Unbalanced Distribution Systems for Power Flow Analysis. <i>Electric Power Components and Systems</i> , 2006 , 34, 191-215	1	4
8	Development of power flow software using design patterns. <i>IEEE Transactions on Power Systems</i> , 2006 , 21, 611-618	7	6
7	Modeling and analysis of unbalanced distribution system using object-oriented methodology. <i>Electric Power Systems Research</i> , 2006 , 76, 968-979	3-5	3
6	Object methodology - techtorial. <i>IEEE Power and Energy Magazine</i> , 2005 , 3, 18-29	2.4	7
5	Large scale power system computations with object-oriented design		1
4	Distribution system load flow using object-oriented methodology		15
3	Aggregator free ancillary services e-market for electric vehicles using smart contracts. <i>International Transactions on Electrical Energy Systems</i> , e13096	2.2	1
2	Energy-cost minimization with dynamic smart charging of electric vehicles and the analysis of its impact on distribution-system operation. <i>Electrical Engineering</i> , 1	1.5	1
1	A direct analytical predetermination of PMSG based WPS steady-state values under different operating conditions. <i>Wind Engineering</i> , 0309524X2210935	1.2	0