

Selvan M P

List of Publications by Year in descending order

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108
papers

1,117
citations

489802

18
h-index

563245

28
g-index

109
all docs

109
docs citations

109
times ranked

1142
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Residential Energy Management System for Dynamic Demand Response in Smart Buildings. IEEE Systems Journal, 2018, 12, 1329-1340.	2.9	157
2	Fuzzy Embedded Genetic Algorithm Method for Distributed Generation Planning. Electric Power Components and Systems, 2011, 39, 346-366.	1.0	63
3	Distributed Generation Planning: A New Approach Based on Goal Programming. Electric Power Components and Systems, 2012, 40, 497-512.	1.0	48
4	Effect of electrical parameters on morphology and in-vitro corrosion resistance of plasma electrolytic oxidized films formed on zirconium. Surface and Coatings Technology, 2015, 269, 286-294.	2.2	43
5	Novel scheme for enhancement of fault ride-through capability of doubly fed induction generator based wind farms. Energy Conversion and Management, 2011, 52, 2651-2658.	4.4	42
6	Enhancement of voltage stability margin in radial distribution system with squirrel cage induction generator based distributed generators. IET Generation, Transmission and Distribution, 2013, 7, 898-906.	1.4	40
7	Dynamic demand response in smart buildings using an intelligent residential load management system. IET Generation, Transmission and Distribution, 2017, 11, 4348-4357.	1.4	40
8	Smart Load Node for Nonsmart Load Under Smart Grid Paradigm: A New Home Energy Management System. IEEE Consumer Electronics Magazine, 2019, 8, 22-27.	2.3	30
9	Predictive current control of distribution static compensator for load compensation in distribution system. IET Generation, Transmission and Distribution, 2016, 10, 2410-2423.	1.4	27
10	Online condition monitoring and power management system for standalone microgrid using FPGAs. IET Generation, Transmission and Distribution, 2016, 10, 3875-3884.	1.4	26
11	Planning and operation of Distributed Generations in distribution systems for improved voltage profile. , 2009, , .		25
12	Distribution system load flow using object-oriented methodology. , 0, , .		23
13	Effective algorithm for fault discrimination and estimation of fault location in transmission lines. IET Generation, Transmission and Distribution, 2019, 13, 2789-2798.	1.4	23
14	Framework of locality electricity trading system for profitable peer-to-peer power transaction in locality electricity market. IET Smart Grid, 2020, 3, 318-330.	1.5	23
15	Performance evaluation of FPGA-based predictive current controller for FL-DSTATCOM in electric distribution system. IET Generation, Transmission and Distribution, 2019, 13, 4400-4409.	1.4	21
16	Design, Operation, and Control of S3 Inverter for Single-Phase Microgrid Applications. IEEE Transactions on Industrial Electronics, 2015, 62, 5569-5577.	5.2	20
17	Hierarchical Agglomerative Clustering Algorithm method for distributed generation planning. International Journal of Electrical Power and Energy Systems, 2014, 56, 259-269.	3.3	19
18	Analysis of FACTS devices on Security Constrained Unit Commitment problem. International Journal of Electrical Power and Energy Systems, 2015, 66, 280-293.	3.3	18

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19	Embedded Control of <i>n</i> -Level DC-DC AC Inverter. IEEE Transactions on Power Electronics, 2015, 30, 3703-3711.	5.4	18
20	Smart residential energy management system for demand response in buildings with energy storage devices. Frontiers in Energy, 2019, 13, 715-730.	1.2	18
21	An electric power trading framework for smart residential community in smart cities. IET Smart Cities, 2019, 1, 40-51.	1.6	18
22	Alleviation of Power Quality Issues Caused by Electric Arc Furnace Load in Power Distribution System Using 3-Phase Four-Leg DSTATCOM. Journal of the Institution of Engineers (India): Series B, 2019, 100, 9-22.	1.3	17
23	Optimal location of interline power flow controller in a power system network using ABC algorithm. Archiwum Elektrotechniki, 2013, 62, 91-110.	0.5	15
24	Comparative evaluation of performance of different control strategies on UPQC connected distribution system. , 2010, , .		14
25	An effective implementation of Phasor measurement unit (PMU) by using non-recursive DFT algorithm. , 2015, , .		14
26	Power flow analysis incorporating firing angle model based TCSC. , 2010, , .		13
27	Impact of DG model and load model on placement of multiple DGs in distribution system. , 2010, , .		13
28	Capability evaluation of four-leg DSTATCOM for compensating multifarious loads. Australian Journal of Electrical and Electronics Engineering, 2016, 13, 229-243.	0.7	12
29	Modelling and Control of Transformer-less Universal Power Quality Conditioner (TUnPQC): An Effective Solution for Power Quality Enhancement in Distribution System. Journal of Control, Automation and Electrical Systems, 2017, 28, 123-134.	1.2	12
30	Energy-cost minimization with dynamic smart charging of electric vehicles and the analysis of its impact on distribution-system operation. Electrical Engineering, 2022, 104, 2805-2817.	1.2	12
31	Object methodology - techtorial. IEEE Power and Energy Magazine, 2005, 3, 18-29.	1.6	11
32	Load scheduling for smart energy management in residential buildings with renewable sources. , 2014, , .		11
33	A Hybrid Genetic Algorithm based Power System Stabilizer. , 2007, , .		10
34	A simplified approach for load flow analysis of radial distribution network with embedded generation. , 2008, , .		10
35	FPGA based microstepping scheme for stepper motor in Space-Based Solar Power Systems. , 2012, , .		10
36	Performance analysis of FPGA controlled four-leg DSTATCOM for multifarious load compensation in electric distribution system. Engineering Science and Technology, an International Journal, 2018, 21, 692-703.	2.0	10

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37	A comprehensive embedded solution for data acquisition and communication using FPGA. Journal of Applied Research and Technology, 2017, 15, 45-53.	0.6	8
38	Development of Power Flow Software Using Design Patterns. IEEE Transactions on Power Systems, 2006, 21, 611-618.	4.6	7
39	Modeling and analysis of unbalanced distribution system using object-oriented methodology. Electric Power Systems Research, 2006, 76, 968-979.	2.1	7
40	A Combined Mode of Control for Unified Power Quality Conditioner Connected to a Low Voltage Distribution System. Australian Journal of Electrical and Electronics Engineering, 2011, 8, 257-270.	0.7	7
41	FPGA based control scheme for a single-stage grid-connected solar photovoltaic system. , 2013, , .		7
42	Systematized Active Power Control of PMSG-Based Wind-Driven Generators. IEEE Systems Journal, 2020, 14, 708-717.	2.9	7
43	Dynamic topology processing in a radial distribution system. IET Generation, Transmission and Distribution, 2006, 153, 155.	1.1	6
44	Comparative evaluation of modelling methods for TCSC in optimal power flow studies. , 2012, , .		6
45	Demand response in smart buildings through time-varying priority of household appliances. , 2017, , .		6
46	Object Modeling of Balanced and Unbalanced Distribution Systems for Power Flow Analysis. Electric Power Components and Systems, 2006, 34, 191-215.	1.0	5
47	Novel Coordinated Converter Control (3C) Strategy for Enhancement of Fault Ride-through Capability of Doubly Fed Induction Generator Wind Farms. Electric Power Components and Systems, 2011, 39, 1493-1506.	1.0	5
48	Virtual laboratory environment using MATLAB-GUI for teaching of induction generators. , 2012, , .		5
49	Performance analysis of UPQC with heterogeneous control during load power factor variation. European Transactions on Electrical Power, 2012, 22, 937-960.	1.0	5
50	Short circuit analysis and adaptive zonal protection of distribution system with distributed generators. , 2015, , .		5
51	Regression based approach for measurement of current in single-phase smart energy meter. , 2017, , .		5
52	Predictive current control of FL-shunt active power filter for dynamic and heterogeneous load compensation. Electrical Engineering, 2021, 103, 2147-2160.	1.2	5
53	Smart charging of electric vehicles to minimize the cost of charging and the rate of transformer aging in a residential distribution network. Turkish Journal of Electrical Engineering and Computer Sciences, 2022, 30, 927-942.	0.9	5
54	Unbalanced distribution system short circuit analysis — an Object-Oriented Approach. , 2008, , .		4

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55	Capacity Evaluation and Identification of Grid Integration Points of Distributed Generation in a Distribution System. Australian Journal of Electrical and Electronics Engineering, 2011, 8, 137-153.	0.7	4
56	Performance analysis of distribution network with optimally sized WTGS based DGs considering wind speed variation. , 2013, , .		4
57	A simple digital control algorithm for three phase shunt active filter: simulation and experimentation. Frontiers in Energy, 2014, 8, 119-128.	1.2	4
58	Very short term prediction of solar radiation for residential load scheduling in smartgrid. , 2016, , .		4
59	Performance Evaluation of FPGA-Controlled DSTATCOM for Load Compensation. Arabian Journal for Science and Engineering, 2016, 41, 3355-3367.	1.1	4
60	Assessment of compliance of phasor measurement units (<scp>PMUs</scp>) for smart grid applications. International Transactions on Electrical Energy Systems, 2021, 31, e12835.	1.2	4
61	Feasibility assessment of utilizing electric vehicles for energy arbitrage in smart grids considering battery degradation cost. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 4664-4678.	1.2	4
62	Real-time object tracking in a video stream using Field Programmable Gate Array. , 2012, , .		3
63	Optimal power flow incorporating thyristor controller series compensator using Differential Evolution. , 2012, , .		3
64	Simplified embedded control scheme for twoâ€stage multistring offâ€grid inverter. IET Power Electronics, 2014, 7, 2954-2963.	1.5	3
65	Dynamic grid support system for mitigation of impact of high penetration solar PV into grid. , 2017, , .		3
66	Experimental Investigation on a New Hybrid System Employing Wind-Driven DFIG and Solar PV Panels. Journal of the Institution of Engineers (India): Series B, 2019, 100, 561-574.	1.3	3
67	Dynamic slip control topologies and novel control strategy for grid connected opti-slip induction generator. , 2009, , .		2
68	Mitigation of output power fluctuations in wind farms with Opti-slip induction generator. , 2009, , .		2
69	Grid Integration of Distributed Generationâ€™ Consequences on Node Voltage under Grid Perturbations. Wind Engineering, 2010, 34, 629-650.	1.1	2
70	Control Scheme for Mitigation of Output Power Fluctuations in Grid Connected Wound Rotor Induction Generator. Wind Engineering, 2010, 34, 579-593.	1.1	2
71	Enhanced Fault Ride-through Scheme for Mitigating Rotor Speed Instability of Doubly Fed Induction Generator Based Wind Farms. Wind Engineering, 2010, 34, 445-460.	1.1	2
72	Investigation on rating of shunt APF in unified power quality conditioner. , 2011, , .		2

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73	A method for siting of STATCOM and SSSC for power transfer capacity enhancement. , 2012, , .		2
74	Performance of custom power devices in SCIG based Wind farms during abnormal grid conditions. , 2014, , .		2
75	Application of D-STATCOM in SCIG based windfarms during normal and abnormal grid conditions. , 2014, , .		2
76	Unit size optimization of Hybrid Energy System. , 2014, , .		2
77	Enhanced method of rotor speed and position estimation of permanent magnet synchronous Machine based on stator SRF-PLL. Engineering Science and Technology, an International Journal, 2017, 20, 1450-1459.	2.0	2
78	Prosumer Based Demand Response for Profitable Power Exchange Between End-User and Utility. , 2018, , .		2
79	Simplified Algorithm for Dynamic Demand Response in Smart Homes Under Smart Grid Environment. , 2019, , .		2
80	Aggregator free ancillary services <scp>eâ€market</scp> for electric vehicles using smart contracts. International Transactions on Electrical Energy Systems, 2021, 31, e13096.	1.2	2
81	Large scale power system computations with object-oriented design. , 0, , .		1
82	Object-Oriented Optimal Power Flow: A New Approach Based on Design Patterns. Electric Power Components and Systems, 2009, 38, 197-211.	1.0	1
83	Indigenous control of augmented DC voltage in D-Statcom. , 2010, , .		1
84	Performance analysis of Series Active Filter under non sinusoidal supply and non linear loading. , 2011, , .		1
85	DG planning method for enhancement of voltage stability margin in distribution system. , 2012, , .		1
86	Design and implementation of a robust fault detection mechanism for EHV lines. , 2016, , .		1
87	Design and Implementation of an Algorithm for Diagnosis of Load Encroachment in EHV Lines. Energy Procedia, 2017, 117, 519-526.	1.8	1
88	Interactive Demand Response in a Locality of Smart Power System. , 2018, , .		1
89	FPGA-based closed-loop monitoring and control of doubly fed induction generator with single inverter and battery for wind energy conversion. Australian Journal of Electrical and Electronics Engineering, 2018, 15, 175-183.	0.7	1
90	Realization of Self-Demand Response Through Non-Intrusive Load Monitoring Algorithm. , 2019, , .		1

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91	Agentâ€based system to control the airâ€conditioner and EV charging for residents in smart cities. IET Smart Cities, 2019, 1, 71-80.	1.6	1
92	M Class Synchronphasor Compliance for Real-time Monitoring of Smart Power Systems. Journal of the Institution of Engineers (India): Series B, 2021, 102, 713.	1.3	1
93	Effect of Reference Generation Schemes on the Performance of Shunt Active Filter: A Comparison. Lecture Notes in Electrical Engineering, 2011, , 253-259.	0.3	1
94	A direct analytical predetermination of PMSG based WPS steady-state values under different operating conditions. Wind Engineering, 0, , 0309524X2210935.	1.1	1
95	Enhanced fault ride-through scheme and coordinated reactive power control for DFIG. , 2010, , .		0
96	Dynamic Voltage Compensator: Transformationless control perspective. , 2011, , .		0
97	Performance of Series Active Filter in low voltage distribution system with non linear loads. , 2011, , .		0
98	Investigations on power flow solutions using Interline Power Flow Controller (IPFC). , 2011, , .		0
99	Digital feedback control based Dynamic Voltage Compensator for voltage sag mitigation: Simulation and experimental validation. , 2012, , .		0
100	Experimental verification of FPGA controller based Series Active Filter. , 2012, , .		0
101	State estimation of observable and unobservable power systems. , 2015, , .		0
102	FPGA based SHEPWM switching scheme for single phase cascaded H-bridge multi-level inverter. , 2016, , .		0
103	Parallel operation of permanent magnet synchronous generator based windmills connected to HVDC-VSC link. , 2016, , .		0
104	Hydro-Thermal-Wind Coordination for Short Term Unit Commitment Using Lambda-Gamma Iteration and Particle Swarm Optimization. , 2017, , .		0
105	Design and Development of an Emulator for Distribution Automation Using DCS. , 2018, , .		0
106	Smart residential electricity distribution system (SREDS) for demand response under smart grid environment. CSI Transactions on ICT, 2020, 8, 231-234.	0.7	0
107	Demand Response Frameworks for Smart Residential Buildings. Power Systems, 2021, , 93-130.	0.3	0
108	Demand Response in Smart Residential Buildings. Algorithms for Intelligent Systems, 2021, , 361-390.	0.5	0