

List of Publications - Dr.M.P.Selvan

1. Hanumantha Rao, B., Arun, S.L. and **Selvan, M.P.** “Framework of Locality Electricity Trading System for Profitable Peer-to-Peer Power Transaction in Locality Electricity Market”, IET Smart Grid, 2020, Accepted for publication, Scopus Indexed ISSN : 2515-2947
2. Vijayapriya, R., Raja, P. and **Selvan, M.P.**, “Systematized Active Power Control of PMSG-Based Wind-Driven Generators”, IEEE Systems Journal, 2019, Available Online . **SCIE Indexed ISSN: 1932-8184**
3. Shashank Singh, Aryesh Namboodiri and **Selvan, M.P.** “Agent-based System to Control the Air-Conditioner and EV Charging for Residents in Smart Cities”, IET Smart Cities, **Special Issue on Smart Energy for Smart Cities**, Vol. 1, No. 2, 2019, pp. 71-80. **ISSN 2631-7680**
4. Hanumantha Rao, B., Arun, S.L. and **Selvan, M.P.** “An Electric Power Trading Framework for Smart Residential Community in Smart Cities”, IET Smart Cities, **Special Issue on Smart Energy for Smart Cities**, Vol. 1, No. 2, 2019, pp. 40-51. **ISSN 2631-7680**
5. Dheepanchakkravarthy, A., Jawahar, M.R., Venkatraman, K., **Selvan, M.P.** and Moorthi, S., “Performance Evaluation of FPGA based Predictive Current Controller for Four-leg DSTATCOM in Electric Distribution Systems” **IET Generation, Transmission and Distribution**, Accepted for Publication, 2019. **SCIE Indexed ISSN: 1751-8687**
6. Sekhar Nindra, Lakshmana Rao Paila, Kumaresan, N. and **Selvan, M.P.** “Experimental Investigation on a New Hybrid System Employing Wind-Driven DFIG and Solar PV Panels”, **Journal of The Institution of Engineers (India): Series B, Springer, 2019**, Available Online, Scopus Indexed ISSN: 2250-2106
7. Suryanarayana Gangolu, Raja, P., **Selvan, M.P.** and Venkata Kirthiga M., “Effective algorithm for fault discrimination and estimation of fault location in transmission lines”, **IET Generation, Transmission and Distribution**, 2019, Accepted for Publication. **SCIE Indexed ISSN: 1751-8687**
8. Shashank Singh, Amit Roy and **Selvan, M.P.**, “Smart Load Node for Non-Smart Load under Smart Grid Paradigm”, **IEEE Consumer Electronics Magazine**, Vol. 8, No. 2 March 2019, pp. 22-27, **SCIE Indexed ISSN: 2162-2248**
9. Dheepanchakkravarthy, A., **Selvan, M.P.** and Moorthi, S. “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, Springer, Vol. 100, No. 1, February 2019, pp. 9-22. Scopus Indexed ISSN: 2250-2106**
10. Nikhil, K. A., Bharath Chandra, P., Jawahar, M.R., Moorthi, S., **Selvan, M.P.** and Kumaresan, N. “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**, December 2018 (Online), **Scopus Indexed ISSN: 2205-362X**
11. Arun, S.L. and **Selvan, M.P.**, “Smart Residential Energy Management System for Demand Response in Buildings with Energy Storage Devices”, **Frontiers in Energy** June 2018 (Online). **Scopus Indexed ISSN: 2095-1701**

12. Dheepanchakkravarthy, A., Akhil, S., Venkatraman, K., **Selvan, M.P.** and Moorthi, S. "Performance Analysis of FPGA Controlled Four-leg DSTATCOM for Multifarious Load Compensation in Electric Distribution System", Engineering Science and Technology, an International Journal, Elsevier, Vol. 21, No. 4, 2018, pp. 692 – 703. **Scopus Indexed ISSN: 2215-0986**
13. Arun, S.L. and **Selvan, M.P.**, "Intelligent Residential Energy Management System for Dynamic Demand Response in Smart Buildings", IEEE Systems Journal, Vol. 12, No. 2, 2018, pp. 1329-1340. **SCIE Indexed ISSN: 1932-8184**
14. Vijayapriya, P, Raja, P. and **Selvan, M.P.**, "A Modified Active Power Control Scheme for Enhanced Operation of PMSG based WGs", IEEE Transactions on Sustainable Energy, Vol. 9, No. 2, 2018, pp. 630-638. **SCIE Indexed ISSN: 1949-3029**
15. Dheepanchakkravarthy, A., Venkatraman, K., **Selvan, M.P.**, Moorthi, S. and Venkatakirithiga, M., "Capability Evaluation of Four-leg DSTATCOM for Compensating Multifarious Loads", Australian Journal of Electrical and Electronics Engineering, December 2017 (Online), **Scopus Indexed ISSN: 1448-837X**
16. Vijayapriya, R., Raja, P. and **Selvan, M.P.**, "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, Elsevier, Vol. 20, No. 5, October 2017, pp. 1450 – 1459. **Scopus Indexed ISSN: 2215-0986**
17. Arun, S.L. and **Selvan, M.P.**, "Dynamic Demand Response in Smart Buildings using an Intelligent Residential Load Management System", IET Generation, Transmission and Distribution, Vol. 11, No. 17, 2017, pp. 4348-4357. **SCIE Indexed ISSN: 1751-8687**
18. Venkatraman, K., **Selvan, M.P.**, Moorthi, S., Raja, P. and Deepa Kurup, "Predictive Current Control of DSTATCOM for VAR Compensation of Grid Connected Wind Farms", Journal of Renewable and Sustainable Energy, March 2017, **SCIE Indexed, ISSN: 1941-7012**
19. Venkatraman, K., Moorthi, S., **Selvan, M.P.** and Raja, P., "A Comprehensive Embedded Solution for Data Acquisition and Communication using FPGA", Journal of Applied Research and Technology, Vol. 15, No. 1, February 2017, pp.45-53, **SCImago Indexed ISSN: 1665-6423**
20. Venkatraman, K., Moorthi, S. and **Selvan, M.P.**, "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, Springer**, Vol. 28, No. 1, February 2017, pp.123-134, **SCImago Indexed ISSN: 2195-3899**
21. Venkatraman, K., Dastagiri Reddy, B., **Selvan, M.P.**, Moorthi, S., Kumaresan, N. and Ammasaigounden, N., "Online Condition Monitoring and Power Management System for Standalone Micro-grid using FPGAs", IET Generation, Transmission and Distribution, Vol.10, No. 15, November 2016, pp. 3875-3884, **SCIE Indexed ISSN: 1751-8687**
22. Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Predictive Current Control of Distribution Static Compensator for Load Compensation in Distribution System", IET Generation, Transmission and Distribution, Vol.10, No. 10, October 2016, pp. 2410-2423, **SCIE Indexed ISSN: 1751-8687**
23. Venkatraman, K., Moorthi, S., **Selvan, M.P.**, Raja, P. and Deepa Kurup, "Performance Evaluation of FPGA-Controlled DSTATCOM for Load Compensation", Arabian Journal

of Science and Engineering, Vol. 41, No. 9, September 2016, pp.3355-3367, **SCIE Indexed ISSN: 2193-567X**

24. Dastagiri Reddy, B., **Selvan, M.P.** and Moorthi, S., “Design, Operation and Control of S3 Inverter for Single-Phase Micro-Grid Applications”, IEEE Transactions on Industrial Electronics, Vol. 62, No. 9, September 2015, pp.5569-5577, **SCI Indexed ISSN: 0278-0046**
25. Dastagiri Reddy, B., Anish, N.K., **Selvan, M.P.** and Moorthi, S., “Embedded Control of n-Level DC-DC-AC Inverter”, IEEE Transactions on Power Electronics, Vol.30, No. 7, July 2015, pp. 3703-3711, **SCI Indexed ISSN: 0885-8993**
26. Sandhyarani, M., Ashfaq, M., Arunnellaiappan, T., **Selvan, M.P.**, Subramanian, S. and Rameshbabu, N., “Effect of Electrical Parameters on Morphology and In-vitro Corrosion Resistance of Plasma Electrolytic Oxidized Films Formed on Zirconium”, Surface & Coatings Technology, Vol. 269, May 2015, pp. 286-294, **SCI Indexed ISSN: 0257-8972**
27. Sreejith, S., Sishaj P. Simon and **Selvan, M.P.**, “Analysis of FACTS Devices on Security Constrained Unit Commitment Problem”, International Journal of Electrical Power and Energy Systems, Vol. 66, January 2015, pp. 280-293, **Scopus Indexed ISSN: 0142-0615**