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## PAPERS PUBLISHED

### HIGH IMPACT FACTOR JOURNAL -WEB OF SCIENCE

1. **Venkateshkumar, M.** (2015), “Design of a New Multilevel Inverter Standalone Hybrid PV/FC Power System”. **Journal of Fuel Cells WILEY publication**,15: 862–875. doi: 10.1002/fuce.201400085 (**Impact factor: 3.9**) ( **Scopus Indexed and Thomson Reuters** )
2. **Venkateshkumar, M** et al ( 2018 ) “Comparative Analysis of Intelligent Controller Based Microgrid Integration Of Hybrid PV/Wind Power System” - **Springer** “IGI- Global - International Journal of Ambient Computing and Intelligence” (IJACI) (Indexed In: Web of Science- SCI, SCOPUS, Elsevier) (**Impact factor: 1.58** )
3. **Venkateshkumar M.** (2019) “ An Analysis of Load Management System by Using Unified Power Quality Conditioner for Distribution Network” in Emerging Trends in Expert Applications and Security. Advances in Intelligent Systems and Computing, vol 841. **Springer**, Singapore (Web of Science)
4. **Venkateshkumar M** (2019) “Design and Comparative Analysis of Various Intelligent Controller Based Efficiency Improvement of Fuel Cell System” In: Emerging Trends in Expert Applications and Security. Advances in Intelligent Systems and Computing, vol 841. **Springer**, Singapore ( Web of Science)
5. Beibei Xu, Diyi Chen, **M. Venkateshkumar**, Yu Xiao, Yan Yue, Yanqiu Xing, Peiquan Li, “Modeling a pumped storage hydropower integrated to a hybrid power system with solar-wind power and its stability analysis” *Applied Energy*, Volume 248, 2019, Pages 446-462, (Impact factor: 8 ) ( Web of Science)
6. C. S. Chin, J. Xiao, A. M. Y. M. Ghias, **M. Venkateshkumar** and D. U. Sauer, "Customizable Battery Power System for Marine and Offshore Applications: Trends, Configurations, and Challenges," in *IEEE Electrification Magazine*, vol. 7, no. 4, pp. 46-55, Dec. 2019.
7. Mahendrarvarman, I., Elankurisil, S.A., **Venkateshkumar, M.** et al. Artificial intelligent controller-based power quality improvement for microgrid integration of photovoltaic system using new cascade multilevel inverter. *Soft Comput* (2020). (Impact factor: 3.05) ( Web of Science)
8. Zhang, T.; Chen, D.; Liu, J.; Xu, B.; M, Venkateshkumar. A Feasibility Analysis of Controlling a Hybrid Power System over Short Time Intervals. *Energies* 2020, *13*, 5682. ( impact factor : 2.7) ( Web of Science)

## ***INTERNATIONAL JOURNAL PUBLISHED – Scopus Indexed***

1. Venkateshkumar, M “Fuzzy Logic Controller Based MPPT Method of the Photovoltaic Power System. International Review of Automatic Control (IREACO), [S.l.], v. 7, n. 3, p. 240-244, may. 2014. ISSN 1974-6067 (**Scopus Indexed**)
2. M. Venkateshkumar “AC Grid Connected Photovoltaic Energy System Using 21-Level Multilevel Cascade H-Bridge Inverter” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) PP. 3837-3841 (**Scopus Indexed**)
3. M. Venkateshkumar “Simulation of Standalone Hybrid Solar / Fuel cell Power System for Standalone Application” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) PP. 3851-3855 (**Scopus Indexed**)
4. M. Venkateshkumar “Power Quality Improvement In Grid Connected Distributed System Using Facts Devices” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) PP. 3856-3860 (**Scopus Indexed**)
5. M. Venkateshkumar “Design and analysis of tracking system of Solar power system” International Journal of Applied Engineering Research (IJAER) Vol. 10 No.4 March 2015, ISSN 0973-4562 Research India Publications (**Scopus Indexed**)
6. M. Venkateshkumar “Intelligent Control Based MPPT for Grid Penetration of Photovoltaic power System” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) PP. 3865-3869 (**Scopus Indexed**)
7. M. Venkateshkumar “Design and Implementation of an Optimal Load Distribution for Effective Utilization of Hybrid Renewable Energy System using Intelligent Control” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.33 (2015) PP 25679 -25685(**Scopus Indexed**)
8. M. Venkateshkumar “Modelling and Simulation of Hybrid Renewable Energy System for Standalone Application” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.33 (2015) PP 25685 -25694 (**Scopus Indexed**)
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10. M. Venkateshkumar “Review on various Multilevel Inverter topologies for Renewable Energy Sources” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) PP. 3762-3765 (**Scopus Indexed**)
11. M. Venkateshkumar “An Overview of Various Techniques of Maximum Power Point Tracking For Fuel Cell Power System” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) PP. 3782-3786 (**Scopus Indexed**)
12. M. Venkateshkumar “An Overview Of Maximum Power Point Tracking Techniques For Photovoltaic Power System” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.4 (2015) pp 3799-3803 (**Scopus Indexed**)
13. M. Venkateshkumar “Power Flow Management and Control of Hybrid Wind / PV/ Fuel Cell and Battery Power System using Intelligent Control” International Journal of Control Theory and Application, vol 9(2), pp. 987-995, 2016, (**Scopus Indexed**)
14. M. Venkateshkumar “Battery Management System for Hybrid Photovoltaic and Wind Power System using Fuzzy Logic Controller” International Journal of Control Theory and Application, vol 9(2), pp. 1035-1041, 2016, (**Scopus Indexed**)
15. M. Venkateshkumar “Comparative Analysis of Speed Control of DC Motor Using Artificial Intelligence” an International Journal of Control Theory and Application, vol 9(2), pp. 1007-1014, 2016, (**Scopus Indexed**)
16. M. Venkateshkumar “Design of Multilevel Convertor for Renewable Energy Applications Using Fuzzy Logic Controller” an International Journal of Control Theory and Application, vol 9(2), pp. 1015-1021, 2016, (**Scopus Indexed**)
17. M. Venkateshkumar “Analysis of Solar Irradiation and Modeling of Large Scale PV Power Plant Implementation in **Central Tamil Nadu**” Journal of Chemical and Pharmaceutical Sciences ISSN: 0974-2115 issue 5, pp 36 -43. October 2016 (**Scopus Indexed**)

18. M. Venkateshkumar “Analysis of Solar Irradiation and Modeling of Large Scale PV Power Plant Implementation in North **Tamil Nadu**” Journal of Chemical and Pharmaceutical Sciences ISSN: 0974-2115 issue 5, pp 92 -98. October 2016 ( **Scopus Indexed** )

19. M. Venkateshkumar “Analysis of Solar Irradiation and Modeling of Large Scale PV Power Plant Implementation in South **Tamil Nadu**” Journal of Chemical and Pharmaceutical Sciences ISSN: 0974-2115 issue 5, pp 156 - 163. October 2016 ( **Scopus Indexed** )

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1. M. Venkateshkumar, “PHOTOVOLTAIC ENERGY GRID INTEGRATION SYSTEM” Published in SJCTET Journal of Engineering and Management, Vol 2 no. 2, pp 10-13. Jan-June 2009.

2. M.Venkateshkumar, “PHOTOVOLTAIC FUEL CELL HYBRID SYSTEM IMPLEMENTED BY MATLAB/SIMULINK” Published in TECHONLINE PUBLICATION

3. M. Venkateshkumar, “AC GRID CONNECTED PHOTOVOLTAIC SYSTEM A-REVIEW” Published in SJCTET Journal of Engineering and Management, Vol 3 no. 2, pp 10-13. June-Dec 2009.

4. M.Venkateshkumar, “SOFC ENERGY 3 PHASE GRID INTEGRATION SYSTEMS IMPLEMENTED USING MATLAB-SIMULINK in CiiT International journal of Programming Devices Circuits and Systems. ISSN 0974-9624 impact factor = 0.492

5. M.Venkateshkumar, PEM FUEL CELL ENERGY GRID INTEGRATION TO ELECTRICAL POWERSYSTEM on International Conference on Mechanical and Electrical Technology (ICMET 2010) September 10 - 12, 2010, Singapore. IEEE Catalog Number: CFP1070K-PRT,ISBN:978-1-4244-8101-9

6. M.Venkateshkumar, “Design of Hybrid Photovoltaic- Solid Oxide Fuel Cell Power System in SIMULINK in CiiT International journal of Programming Devices Circuits and Systems. Nov 2010 ISSN 0974-9624 impact factor = 0.492

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8. M. Venkateshkumar, A Study of Photovoltaic Cell Power Generation and Application in CiiT International journal of digital signal processing. April 2011 ISSN 0974 – 9586. impact factor =0.126

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### *IEEE INTERNATIONAL CONFERENCE PUBLICATION*

1. **“PEM Fuel Cell Energy Grid Integration To Electrical Power System”** On International Conference On Mechanical And Electrical Technology (ICMET 2010) September 10 - 12, 2010, Singapore. IEEE Catalog Number: CFP1070K-PRT, ISBN: 978-1-4244-8101-9 (Published IEEE Explore ) (Scopus Indexed)
2. **“Integration Of D-Statcom Based Photovoltaic Cell Power In Low Voltage Power Distribution Grid”** On International Conference On IEEE-ICAESM 2012 E.G.S.Pillai Engineering College Nagapattinam On March 30<sup>th</sup> & 31<sup>st</sup> 2012. (Published in IEEE Explore) (Scopus Indexed)
3. **“Photovoltaic Cell Power Generation And Stand-Alone Applications”** On International Conference On IEEE-ICAESM 2012 E.G.S.Pillai Engineering College Nagapattinam On March 30<sup>th</sup> & 31<sup>st</sup> 2012. (Published in IEEE Explore) (Scopus Indexed)
4. **“Intelligent Control Based MPPT Method For Photovoltaic Power System”** On The International Conference On Human Computer Interface Held at Saveetha School Of Engineering On 24<sup>th</sup> To 26<sup>th</sup> Aug 2013. (Published IEEE Explore ) (Scopus Indexed)
5. **“Intelligent Control Based MPPT Method For Fuel Cell Power System,”** IEEE International Conference On Renewable Energy And Sustainable Energy – ICRESE’13 On 5<sup>th</sup> And 6<sup>th</sup> Dec 2013 At Karunya University, Coimbatore. (Published in IEEE Explore) (Scopus Indexed)
6. **"Fuel Cell Power Penetration Into AC Distribution Grid By Using New Cascade Multilevel Inverter With Minimum Number Of Switches,"** In Smart Technologies And Management For Computing, Communication, Controls, Energy And Materials (ICSTM), 2015, Vol., No., Pp.568-574, 6-8 May 2015 (Published in IEEE Explore ) (Scopus Indexed)
7. **“Comparative Analysis of Hybrid Intelligent Controller Based MPPT of Fuel Cell Power System”** In an IEEE International Conference On Smart Technologies And Management For Computing, Communication, Controls, Energy And Materials (ICSTM), 2017 Vol., No., pp.155-159, 2-4 August 2017.

### **OTHER INTERNATIONAL CONFERENCES PUBLICATIONS**

8. Photovoltaic Fuel Cell Hybrid System Implemented By Matlab/ Simulink on INTERNATIONAL CONFERENCE ICETEE2010, (7<sup>th</sup> – 8<sup>th</sup> JAN 2010) at SAI RAM Engineering College, Chennai.
9. Design And Modelling Of Solar Power System For Residential Application on International Conference on Photochemical Conversion of Solar Energy At AMRITA’S VISHWA VIDYAPEETHAM University, Coimbatore on March 29-30 2010
10. Solid Oxide Fuel Cell Energy Isolated Systems on International Conference on Intelligent Information Systems and Management (IISM’2010), at RVS Group Of Engineering And Management Institutions on June 10-12, 2010

11. An Accurate Mathematical Model For Evaluation Of Electrical Characteristics Of Pv Cell on international conference on Smart Technology for Material, Communication, Computing and Energy ICST-2011 Vel-tech Technical University, Avadi, Chennai. on Jan 5 , 6 and 7 2011.
12. An Analysis Of Multilevel Cascade H-Bridge 21-Level Inverter Implemented In Matlab/ Simulink Software on International Conference on Computer Applications in Pondicherry on Jan 27th – 31st 2012.
13. Modelling And Control Of Hybrid Photovoltaic / Fuel Cell Power System In Distributed Grid Environment International Conference On Green Technologies For Environmental Pollution Control And Prevention” 27th - 30th Oct 2014 at National Institute of Technology Trichy