

RESEARCH PUBLICATIONS

2021

1. Babu Natarajan, **Namani Rakesh**, Senthilkumar Subramaniam, Malavya Udugula, and Sanjeevikumar Padmanaban; “GMPPT Algorithm Based Maximum Power Tracking under Dynamic Weather Conditions Employing Krill-Herd Technique”; **International Journal of Energy Sources, Part A: Recovery, Utilization, and Environmental Effects – Taylor & Francis**, pp. 1-16, **2021**. DOI: 10.1080/15567036.2021.1948934. (**Scopus H Index-45**) (**Impact Factor- 1.184**)

2020

1. **Namani Rakesh**, Sanchari Banerjee, Senthilkumar Subramaniam, and Natarajan Babu; “A simplified method for fault detection and identification of mismatch modules and strings in a grid-tied solar photovoltaic system”; **International Journal of Emerging Electric Power Systems- DE GRUYTER**, 21(4), pp. 1-16, **2020**. DOI: 10.1515/ijeeps-2020-0001. (**Scopus H Index-21**) (**Impact Factor- 0.458**)

2019

1. G. Madhusudanan, **Namani Rakesh**, S. Senthil Kumar, and S. Sarojini Mary; “Solar Photovoltaic Array Reconfiguration using Magic Su-Do-Ku algorithm for Maximum Power Production under Partial Shading Conditions”; **Taylor & Francis- International Journal of Ambient Energy**, pp. 1-24, **2019**. DOI: 10.1080/01430750.2019.1691654
2. **Namani Rakesh**, S. Senthil Kumar, and G. Madhusudanan; “Mitigation of power mismatch losses and wiring line losses of partially shaded solar PV array using Improved Magic Technique”; **IET-Renewable Power Generation**, 13, (9), pp. 1522-1532, **2019**. DOI: 10.1049/iet-rpg.2018.5927.

2018

1. D. Rishikesh, **Namani Rakesh**, Udugula Malavya; “A New technique to extract maximum power from wind turbine”; **IEEE National Power System Conference (NPSC)**, Tiruchirappalli, pp. 1-6, 14th -16th December, **2018**.
2. Md. Mehr Ali, K. Devi Supriya, **Namani Rakesh**, U. Malavya; “Design, Development and Testing of Solar Iron Box”; **IEEE International Conference on Innovative Technologies in Engineering (ICITE)**, Hyderabad, pp. 1-5, 11th -13th April, **2018**.
3. K. Ajith, **Namani Rakesh**, M. Srinivas and K. Aravind; “Solar Powered Water Pumping Using BLDC Motor Drive with Boost-Buck converter for Telangana State”; **IEEE International Conference on Innovative Technologies in Engineering (ICITE)**, Hyderabad, pp. 1-6, 11th -13th April, **2018**.

2017

1. **Namani Rakesh**, Udugula Malavya; “Maximizing the Power Output of Partially Shaded Solar PV Array using Novel Interconnection Method”; **IEEE International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)**, Bangalore, pp. 1-5, 21st -23rd February, **2017**.
2. **Namani Rakesh**, T. Santosh, Udugula Malavya and D. Rishikesh; “Battery Management System for Solar PV Panel”; **IEEE International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)**, Bangalore, pp. 1-5, 21st -23rd February, **2017**.
3. **B.Bhavsingh**,B.Srinu,D.Vani;“ Design and Analysis for the MPP of a solar PV panel using a soft switching boost converter with sarc application”.International Journal of Research e-ISSN-2348-6848,p-ISSN2348-795X,Volume04Issue14,November 2017.
4. **B.Bhavsingh**,B.Srinu,D.Vani; “Novel Single Phase Multilevel Inverter for Hybrid Renewable Energy Sources”. International Journal of Research e-ISSN-2348-6848,p-ISSN2348-795X,Volume04Issue14,November2017.

2016

1. Sarojini M S, **Rakesh Namani**, and Senthil Kumar S; “Power Enhancement of Partially Shaded PV Arrays through Shade dispersion using Magic Square configuration”; **Journal of Renewable and sustainable energy- American Institute of Physics**, Vol. 8, 063503, pp. 1-26, **2016**. DOI: 10.1063/1.4972285.
2. **B.Bhavsingh**, B.chennaiah, B.srinu; “Modeling and Simulation for Reduction of Current Harmonic Distortion in Three-Phase Grid-Connected Photovoltaic Inverters by Using Resonant Current Control”, international journal of Modern Engineering Research Vol. 6, Iss. 10, Oct. 2016, ISSN: 2249–6645.

2015

1. **Namani Rakesh** and Venkata Madhavaram.T; “Performance Enhancement of Partially Shaded Solar PV Array using Novel Shade Dispersion Technique”; **Frontiers in Energy with Springer Publications**, Vol. 10, No.2, pp. 227-239, **2015**, DOI:10.1007/s11708-016-0405-0405-y.
2. **Namani Rakesh**, Venkata Madhavaram.T, K. Ajith, G. Rajendra Naik and P. Nagarjun Reddy; “A New Technique to Enhance Output Power from Solar PV Array under Different Partial Shaded Conditions”; **IEEE International Conference on Electron Devices and Solid State Circuits**, Singapore, pp. 345-348, 1st -4th June, **2015**.

2014

1. A.Vamshi Kumar, K. Ajith, P. Nagarjuna Reddy , G. Rajendra Naik, **Namani Rakesh**; “Improved power quality control strategy for distributed generation systems”; **IEEE International Conference on Smart Electric Grid**, Guntur, pp. 1-6, **2014**.

2. **Namani Rakesh**, A. Nitya and C. Gautham Kumar; “Modelling and Simulation of the Wind Energy Electric Conversion System to Extract The Maximum Power From the Wind Using MATLAB”; **IEEE International Conference on Magnetism, Machines & Drives (AICERA-2014 iCMMD)**, Kerala, pp. 1-6, 24th -26th July, **2014**.
3. T.Venugopal, **B. Bhavsingh**, D. Vani; “ Modeling and simulation for PV, Fuel cell based microgrid under unbalanced loading conditions”; international journal of Modern Engineering Research Vol. Iss. 6 June.2014 ISSN: 2249-6645.

2012

1. S. Senthil Kumar, N. Kumaresan, N. Ammasai Gounden, **Namani Rakesh**; “Analysis and control of wind-driven self-excited induction generators connected to the grid through power converters”; **Frontiers in Energy** with Springer Publications, Front. Energy, 6(4), pp.403-412, **2012**, DOI:10.1007/s11708-012-0208-8.
2. S. Senthilkumar, N. Kumaresan, **Namani Rakesh**, K. Vijayakumar and M. Subbiah; “Wind-Driven SEIGs for Supplying Isolated Loads Employing DSP Based Power Electronic Controllers”; International Journal of **Wind Engineering**, Vol. 36, No. 6, pp. 739-758, **2012**.
3. **Namani Rakesh**, N. Kumaresan, S. Senthil Kumar and M.Subbiah; “Performance Predetermination of variable speed wind-driven Grid connected SEIGs”; **IEEE International Conference on Power Electronics, Drives and Energy Systems**, Bangalore, pp. 1-6, 16th -19th December, **2012**.
4. **Namani Rakesh**, N. Kumaresan, S. Senthil Kumar and M.Subbiah; “Major methods of steady state analysis of Three phase SEIGs-A Summary”; **IEEE International Conference on Sustainable Energy Technologies**, Nepal, pp. 415-419, **2012**.
5. T.Venugopal, B. Bhavsingh, “Design and Application for PV Generation System Using a Soft-Switching Boost Converter with SARC”; International Journal of Engineering Research andDevelopment e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 2, Issue 11 (August 2012).