

# Jayaprakash P

## List of Publications by Citations

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23  
g-index

44  
ext. papers

741  
ext. citations

4.4  
avg, IF

3.94  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 38 | Comprehensive Study of DSTATCOM Configurations. <i>IEEE Transactions on Industrial Informatics</i> , <b>2014</b> , 10, 854-870  | 11.9 | 105       |
| 37 | A T-Connected Transformer and Three-leg VSC Based DSTATCOM for Power Quality Improvement. <i>IEEE Transactions on Power Electronics</i> , <b>2008</b> , 23, 2710-2718   | 7.2  | 91        |
| 36 | New control approach for capacitor supported DSTATCOM in three-phase four wire distribution system under non-ideal supply voltage conditions based on synchronous reference frame theory. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2011</b> , 33, 1109-1117 | 5.1  | 72        |
| 35 | Implementation of Neural-Network-Controlled Three-Leg VSC and a Transformer as Three-Phase Four-Wire DSTATCOM. <i>IEEE Transactions on Industry Applications</i> , <b>2011</b> , 47, 1892-1901  | 4.3  | 62        |
| 34 | Reduced Rating VSC With a Zig-Zag Transformer for Current Compensation in a Three-Phase Four-Wire Distribution System. <i>IEEE Transactions on Power Delivery</i> , <b>2009</b> , 24, 249-259   | 4.3  | 57        |
| 33 | Magnetics for neutral current compensation in three-phase four-wire distribution system <b>2010</b> ,   |      | 16        |
| 32 | Binary Hybrid Multilevel Inverter-Based Grid Integrated Solar Energy Conversion System With Damped SOGI Control. <i>IEEE Access</i> , <b>2020</b> , 8, 37214-37228  | 3.5  | 15        |
| 31 | Three-Phase 4-Wire DSTATCOM Based on H-Bridge VSC with a Star/Hexagon Transformer for Power Quality Improvement <b>2008</b> ,   |      | 15        |
| 30 | Control of Reduced Rating Dynamic Voltage Restorer with Battery Energy Storage System <b>2008</b> ,   |      | 14        |
| 29 | Three-Leg Voltage Source Converter Integrated with T-connected Transformer as Three-phase Four-wire Distribution Static Compensator for Power Quality Improvement. <i>Electric Power Components and Systems</i> , <b>2009</b> , 37, 817-831   | 1    | 12        |
| 28 | Integrated three-leg VSC with a zig-zag transformer based three-phase four-wire DSTATCOM for power quality improvement <b>2008</b> ,  |      | 12        |
| 27 | Stand alone wind power generating system employing permanent magnet synchronous generator <b>2008</b> ,   |      | 9         |
| 26 | Isolated H-bridge VSC Based 3-phase 4-wire DSTATCOM for power quality improvement <b>2008</b> ,   |      | 8         |
| 25 | Multi-Objective Solar Power Conversion System With MGI Control for Grid Integration at Adverse Operating Conditions. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 2901-2910   | 8.2  | 5         |
| 24 | A robust control algorithm for self supported dynamic voltage restorer (DVR) <b>2011</b> ,  |      | 5         |
| 23 | Digital Signal Processor Implementation of Isolated Reduced-rating Voltage Source Converter Using a Zig-zag Transformer for Three-phase Four-wire Distribution Static Compensator. <i>Electric Power Components and Systems</i> , <b>2011</b> , 39, 15-30                                   | 1    | 5         |
| 22 | DSP based implementation of a three-phase four-wire DSTATCOM for voltage regulation and power quality improvement <b>2009</b> ,   |      | 5         |

|    |  |      |   |
|----|--|------|---|
| 21 | DSTATCOM with reduced switches using two-leg VSC and a zig-zag transformer for power quality improvement in three-phase four-wire distribution system <b>2008</b> ,  |      | 5 |
| 20 | Realization of Cascaded H-Bridge Multilevel Inverter Based Grid Integrated Solar Energy System With Band Stop Generalized Integral Control. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 764-773      | 4.3  | 5 |
| 19 | Indirect control of capacitor supported DVR for power quality improvement in distribution system <b>2008</b> ,   |      | 4 |
| 18 | Reduction in rating of voltage source converter of DSTATCOM using a zig-zag transformer <b>2012</b> ,  |      | 3 |
| 17 | Implementation of an Isolated Three-Leg VSC with Star/Hexagon Transformer Based Three-Phase Four-Wire DSTATCOM <b>2009</b> ,   |      | 3 |
| 16 | Frame-Angle Controlled Wavelet Modulated Inverter and Self-Recurrent Wavelet Neural Network-Based Maximum Power Point Tracking for Wind Energy Conversion System. <i>IEEE Access</i> , <b>2020</b> , 8, 171373-171386          | 3.5  | 3 |
| 15 | Single-Layer Decoupled Multiple-Order Generalized Integral Control for Single-Stage Solar Energy Grid Integrator With Maximum Power Extraction. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 100-109 | 11.9 | 3 |
| 14 | Cascaded H-Bridge Multilevel Inverter Based Grid Integration of Solar Power with PQ Improvement <b>2018</b> ,  |      | 3 |
| 13 | Isolated wind energy conversion system for three-phase four wire loads employing Adaline based voltage-frequency controller <b>2012</b> ,  |      | 2 |
| 12 | Icos algorithm based control of zig-zag transformer connected three phase four wire DSTATCOM <b>2012</b> ,   |      | 2 |
| 11 | Neural network theory based voltage and frequency controller for standalone wind energy conversion system <b>2010</b> ,  |      | 2 |
| 10 | DSOGI with proportional resonance controlled CHB inverter based two-stage exalted photovoltaic integration in power system with power quality enhancement. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 3126-3137 | 2.9  | 2 |
| 9  | Trinary Hybrid Cascaded H-Bridge Multilevel Inverter-Based Grid-Connected Solar Power Transfer System Supporting Critical Load. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 4116-4125                                      | 4.3  | 2 |
| 8  | A Cascaded Generalized Integral Control for Multiobjective Grid-Connected Solar Energy Transfer System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 12385-12395                                     | 8.9  | 2 |
| 7  | DRISHTI gesture controlled text to braille converter <b>2012</b> ,   |      | 1 |
| 6  | Voltage- frequency controller for stand alone WECS employing permanent magnet synchronous generator <b>2009</b> ,  |      | 1 |
| 5  | Three single-phase voltage source converter based three-phase four wire DSTATCOM <b>2009</b> ,   |      | 1 |
| 4  | Implementation of Neural Network Controlled Three-Leg VSC and a Transformer as Three-Phase Four-Wire DSTATCOM <b>2009</b> ,  |      | 1 |

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|---|---|-----|---|
| 3 | Star-hexagon transformer and non-isolated three-leg VSC based three-phase four-wire DSTATCOM. <i>International Journal of Power and Energy Conversion</i> , <b>2009</b> , 1, 198                    | 0.4 | 1 |
| 2 | Maximum Power Tracking and Power Sharing in Grid Connected WECS Using Modified PFC Rectifier and PR Controlled Inverter. <i>Electric Power Components and Systems</i> , <b>2020</b> , 48, 1584-1597 | 1   | 1 |
| 1 | Grid integrated solar energy transfer system with a two-layer complex coefficient filter-based control. <i>IET Power Electronics</i> , <b>2022</b> , 15, 168-185                                    | 2.2 | 1 |