

# Toshifumi Ise

## List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 69<br>papers      | 3,186<br>citations      | 19<br>h-index  | 56<br>g-index   |
| 74<br>ext. papers | 4,253<br>ext. citations | 2.9<br>avg, IF | 6.02<br>L-index |

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 69 | Low-Voltage Bipolar-Type DC Microgrid for Super High Quality Distribution. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 3066-3075   | 7.2  | 608       |
| 68 | Comparison of Dynamic Characteristics Between Virtual Synchronous Generator and Droop Control in Inverter-Based Distributed Generators. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3600-3611            | 7.2  | 509       |
| 67 | Power System Stabilization Using Virtual Synchronous Generator With Alternating Moment of Inertia. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2015</b> , 3, 451-458                         | 5.6  | 406       |
| 66 | Distribution Voltage Control for DC Microgrids Using Fuzzy Control and Gain-Scheduling Technique. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 2246-2258  | 7.2  | 282       |
| 65 | Oscillation Damping of a Distributed Generator Using a Virtual Synchronous Generator. <i>IEEE Transactions on Power Delivery</i> , <b>2014</b> , 29, 668-676   | 4.3  | 276       |
| 64 | . <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 2268-2277  | 10.7 | 231       |
| 63 | Stability Assessment and Optimization Methods for Microgrid With Multiple VSG Units. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 1462-1471   | 10.7 | 119       |
| 62 | <b>2017</b> ,  |      | 104       |
| 61 | Analysis of Resonance in Microgrids and Effects of System Frequency Stabilization Using a Virtual Synchronous Generator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2016</b> , 4, 1287-1298 | 5.6  | 93        |
| 60 | DC micro-grid for super high quality distribution System configuration and control of distributed generations and energy storage devices   |      | 77        |
| 59 | Fixed-Parameter Damping Methods of Virtual Synchronous Generator Control Using State Feedback. <i>IEEE Access</i> , <b>2019</b> , 7, 99177-99190   | 3.5  | 40        |
| 58 | Maximum power extraction improvement using sensorless controller based on adaptive perturb and observe algorithm for PMSG wind turbine application. <i>IET Electric Power Applications</i> , <b>2018</b> , 12, 455-462         | 1.8  | 37        |
| 57 | Stabilization of a Power System including Inverter Type Distributed Generators by the Virtual Synchronous Generator. <i>IEEE Transactions on Power and Energy</i> , <b>2012</b> , 132, 341-349                                 | 0.2  | 34        |
| 56 | A novel space vector control with capacitor voltage balancing for a multilevel modular matrix converter <b>2013</b> ,  |      | 32        |
| 55 | Cost-Function-Based Microgrid Decentralized Control of Unbalance and Harmonics for Simultaneous Bus Voltage Compensation and Current Sharing. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7397-7410      | 7.2  | 28        |
| 54 | . <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 2394-2409  | 5.6  | 28        |
| 53 | Direct Voltage Control With Slip Angle Estimation to Extend the Range of Supported Asymmetric Loads for Stand-Alone DFIG. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1015-1025                          | 7.2  | 26        |

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|----|--|-----|----|
| 52 | Virtual Synchronous Generator Control With Reliable Fault Ride-Through Ability: A Solution Based on Finite-Set Model Predictive Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 3811-3824 | 5.6 | 23 |
| 51 | Voltage sag ride-through performance of Virtual Synchronous Generator <b>2014</b> ,  |     | 21 |
| 50 | . <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 2901-2913  | 7.2 | 15 |
| 49 | Power Quality improvement of microgrids by virtual synchronous generator control <b>2016</b> ,   |     | 12 |
| 48 | Power System Stabilization Control by HVDC with SMES Using Virtual Synchronous Generator. <i>IEEJ Journal of Industry Applications</i> , <b>2012</b> , 1, 102-110  | 0.7 | 12 |
| 47 | Stability and Accuracy Analysis of Power Hardware-in-the-loop Simulation of Inductor Coupled Systems. <i>IEEJ Transactions on Industry Applications</i> , <b>2010</b> , 130, 902-912   | 0.2 | 11 |
| 46 | A Configuration and Control Method of DC Loop Type Distribution System Including Distributed Generators. <i>IEEJ Transactions on Power and Energy</i> , <b>2003</b> , 123, 964-973   | 0.2 | 10 |
| 45 | Enhanced Performance of a Stand-Alone Gas-Engine Generator Using Virtual Synchronous Generator and Energy Storage System. <i>IEEE Access</i> , <b>2019</b> , 7, 176960-176970  | 3.5 | 10 |
| 44 | Model Predictive Control for Indirect Boost Matrix Converter Based on Virtual Synchronous Generator. <i>IEEE Access</i> , <b>2020</b> , 8, 60364-60381   | 3.5 | 9  |
| 43 | Parallel operation of a synchronous generator and a virtual synchronous generator under unbalanced loading condition in microgrids <b>2016</b> ,   |     | 9  |
| 42 | A Rotor-Current-Based Slip Angle Estimator for Grid-Connected Doubly Fed Induction Generator Requiring the Stator Inductance Only. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 4827-4838                                 | 7.2 | 9  |
| 41 | A Dual VSG-Based M3C Control Scheme for Frequency Regulation Support of a Remote AC Grid Via Low-Frequency AC Transmission System. <i>IEEE Access</i> , <b>2020</b> , 8, 66085-66094   | 3.5 | 9  |
| 40 | A Novel Oscillation Damping Method of Virtual Synchronous Generator Control Without PLL Using Pole Placement <b>2018</b> ,   |     | 8  |
| 39 | An analysis method of a DC microgrid using hardware-in-the-loop simulation <b>2012</b> ,   |     | 7  |
| 38 | A Design-Oriented Q-V Response Modeling Approach for Grid-Forming Distributed Generators Considering Different Operation Modes. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1                   | 5.6 | 7  |
| 37 | Power Control of Low Frequency AC Transmission Systems Using Cycloconverters with Virtual Synchronous Generator Control. <i>Energies</i> , <b>2017</b> , 10, 34  | 3.1 | 6  |
| 36 | Contactless DC Connector Concept for High-Power-Density 380-V DC Distribution System. <i>IEEJ Journal of Industry Applications</i> , <b>2015</b> , 4, 49-58  | 0.7 | 6  |
| 35 | A Comparative Study on Damping Methods of Virtual Synchronous Generator Control <b>2019</b> ,  |     | 6  |

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|----|--|-----|---|
| 34 | A Power Control Scheme between Quality Control Centers in FRIENDS. <i>IEEJ Transactions on Power and Energy</i> , <b>2003</b> , 123, 1443-1453   | 0.2 | 5 |
| 33 | Comparison of Current-Limiting Strategies of Virtual Synchronous Generator Control during Fault Ride-Through. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 256-261   | 0.7 | 5 |
| 32 | Control of Uninterrupted Switching Using a Virtual Synchronous Generator Between Stand-Alone and Grid-Connected Operation of a Distributed Generation System for Houses. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , <b>2015</b> , 190, 26-36 | 0.4 | 4 |
| 31 | Grid Integration Evaluation of Virtual Synchronous Generators Using a Disturbance-Oriented Unified Modeling Approach. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 4660-4671  | 7   | 4 |
| 30 | Machine parameter independent control of a grid-connected variable speed doubly-fed induction generator for gas engine generation systems <b>2013</b> ,  |     | 3 |
| 29 | Power electronics toward the era of distributed generations <b>2012</b> ,  |     | 3 |
| 28 | Configuration of a Voltage Sag Compensator by Use of a Micro-SMES and Its Experimental Results.. <i>IEEJ Transactions on Industry Applications</i> , <b>2003</b> , 123, 30-37  | 0.2 | 3 |
| 27 | Control Scheme of Fault Current Limiter by Series-Connected Voltage Sag Compensator. <i>IEEJ Transactions on Industry Applications</i> , <b>2004</b> , 124, 373-379  | 0.2 | 3 |
| 26 | PMSG Control for a Stand-Alone Gas Engine Generator Using Active Rectifier and VSG-Controlled Inverter. <i>Energies</i> , <b>2020</b> , 13, 233  | 3.1 | 2 |
| 25 | Implementation of sigma-delta modulation controller for single-phase three-wire inverter in stand-alone operation applied for hybrid generation system for residential houses <b>2013</b> ,  |     | 2 |
| 24 | Virtual Synchronous Generators: Dynamic Performance and Characteristics <b>2017</b> , 307-360  |     | 2 |
| 23 | Model-predictive-control-based distributed control scheme for bus voltage unbalance and harmonics compensation in microgrids <b>2017</b> ,   |     | 2 |
| 22 | A novel soft-switching inverter for high power application with simple control <b>2012</b> ,   |     | 2 |
| 21 | Accuracy evaluation of power hardware-in-the-loop simulation of a boost chopper <b>2010</b> ,  |     | 2 |
| 20 | Parallel Type Voltage Sag Compensator with Reduced Capacitor by Boost Type Power Factor Correction Rectifier. <i>IEEJ Transactions on Power and Energy</i> , <b>2005</b> , 125, 5-17   | 0.2 | 2 |
| 19 | A New Robust Decoupled Control of the Stator Active and Reactive Currents for Grid-Connected Doubly-Fed Induction Generators. <i>Energies</i> , <b>2016</b> , 9, 179   | 3.1 | 2 |
| 18 | A Proposal on Low Frequency AC Transmission as a Multi-Terminal Transmission System. <i>Energies</i> , <b>2016</b> , 9, 687  | 3.1 | 2 |
| 17 | A permanent magnet synchronous generator control approach for stand-alone gas engine generation system <b>2016</b> ,   |     | 2 |

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| 16 | A Feasibility Study on Multi-Phase Wireless Power Transfer Using Frequency Modulation <b>2019</b> ,  |     | 2 |
| 15 | Virtual Synchronous Generator Control with Reliable Fault Ride-through Capability by Adopting Model Predictive Control <b>2018</b> ,   |     | 2 |
| 14 | Configuration and characteristics of the GTO converter using regenerative voltage clipper circuit.. <i>IEEJ Transactions on Power and Energy</i> , <b>1986</b> , 106, 761-768  | 0.2 | 1 |
| 13 | Definition of Power Quality for Unbundled Power Quality Service and the Configuration of AC-type Quality Control Center. <i>IEEJ Transactions on Power and Energy</i> , <b>2002</b> , 122, 1384-1394   | 0.2 | 1 |
| 12 | Fundamental Investigation of Isolated DC-DC Converter with Class- $\pi$ Inverter. <i>Journal of the Japan Institute of Power Electronics</i> , <b>2017</b> , 43, 73-80   | 0   | 1 |
| 11 | Application of VSC-HVDC with Shunt Connected SMES for Compensation of Power Fluctuation. <i>IEEJ Transactions on Industry Applications</i> , <b>2012</b> , 132, 464-472  | 0.2 | 1 |
| 10 | A Control Method based on Multi-Agent for a Large Scale Distributed Flexible Network Photovoltaic System. <i>IEEJ Transactions on Power and Energy</i> , <b>2014</b> , 134, 692-701  | 0.2 | 1 |
| 9  | . <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , <b>2021</b> , 2, 101-112   | 2.6 | 1 |
| 8  | A Study on Load Fluctuation of Isolated DC-DC Converter with Class $\Phi$ -2 Inverter using GaN-HFET <b>2018</b> ,   |     | 1 |
| 7  | Investigation of Peak Voltage Suppression Method at Startup in Isolated DC-DC Converter with Class $\Phi$ -2 Inverter <b>2018</b> ,  |     | 1 |
| 6  | Transformer-Less Series Voltage Sag Compensator without Energy Storage Capacitor for Three-Phase Three-Line Systems. <i>IEEJ Transactions on Industry Applications</i> , <b>2007</b> , 127, 693-699  | 0.2 | 0 |
| 5  | A Control Strategy for Active Filters using quasi-Instantaneous Positive Sequence Extraction Filters. <i>IEEJ Transactions on Industry Applications</i> , <b>2003</b> , 123, 445-453   | 0.2 |   |
| 4  | Low Temperature Characteristics of Power Semiconductor Devices and Configuration of a Power Converter Operating in a Cryostat.. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , <b>1992</b> , 27, 125-133 | 0.1 |   |
| 3  | Highly Efficient dc-dc Transformer based on Multicell Converter Topology for Next Generation DC Distribution System. <i>IEEJ Transactions on Industry Applications</i> , <b>2016</b> , 136, 152-161  | 0.2 |   |
| 2  | Characteristics and control system of 0.5MJ superconducting pulsed magnet.. <i>IEEJ Transactions on Power and Energy</i> , <b>1984</b> , 104, 669-676  | 0.2 |   |
| 1  | Power and reactive power simultaneous control by 0.5MJ superconducting magnet energy storage.. <i>IEEJ Transactions on Power and Energy</i> , <b>1984</b> , 104, 545-552   | 0.2 |   |