Toshifumi Ise

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
69	. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2021**, 2, 101-112	2.6	1
68	. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 2394-2409	5.6	28
67	. *IEEE Transactions on Power Electronics*, **2021**, 36, 2901-2913	7.2	15
66	Grid Integration Evaluation of Virtual Synchronous Generators Using a Disturbance-Oriented Unified Modeling Approach. *IEEE Transactions on Power Systems*, **2021**, 36, 4660-4671	7	4
65	A Design-Oriented Q-V Response Modeling Approach for Grid-Forming Distributed Generators Considering Different Operation Modes. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	7
64	Model Predictive Control for Indirect Boost Matrix Converter Based on Virtual Synchronous Generator. *IEEE Access*, **2020**, 8, 60364-60381	3.5	9
63	PMSG Control for a Stand-Alone Gas Engine Generator Using Active Rectifier and VSG-Controlled Inverter. *Energies*, **2020**, 13, 233	3.1	2
62	Virtual Synchronous Generator Control With Reliable Fault Ride-Through Ability: A Solution Based on Finite-Set Model Predictive Control. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3811-3824	5.6	23
61	A Dual VSG-Based M3C Control Scheme for Frequency Regulation Support of a Remote AC Grid Via Low-Frequency AC Transmission System. *IEEE Access*, **2020**, 8, 66085-66094	3.5	9
60	Fixed-Parameter Damping Methods of Virtual Synchronous Generator Control Using State Feedback. *IEEE Access*, **2019**, 7, 99177-99190	3.5	40
59	A Feasibility Study on Multi-Phase Wireless Power Transfer Using Frequency Modulation **2019**,		2
58	Enhanced Performance of a Stand-Alone Gas-Engine Generator Using Virtual Synchronous Generator and Energy Storage System. *IEEE Access*, **2019**, 7, 176960-176970	3.5	10
57	A Comparative Study on Damping Methods of Virtual Synchronous Generator Control **2019**,		6
56	Cost-Function-Based Microgrid Decentralized Control of Unbalance and Harmonics for Simultaneous Bus Voltage Compensation and Current Sharing. *IEEE Transactions on Power Electronics*, **2019**, 34, 7397-7410	7.2	28
55	Maximum power extraction improvement using sensorless controller based on adaptive perturb and observe algorithm for PMSG wind turbine application. *IET Electric Power Applications*, **2018**, 12, 455-462	1.8	37
54	Stability Assessment and Optimization Methods for Microgrid With Multiple VSG Units. *IEEE Transactions on Smart Grid*, **2018**, 9, 1462-1471	10.7	119
53	Comparison of Current-Limiting Strategies of Virtual Synchronous Generator Control during Fault Ride-Through. *IFAC-PapersOnLine*, **2018**, 51, 256-261	0.7	5

52	A Novel Oscillation Damping Method of Virtual Synchronous Generator Control Without PLL Using Pole Placement **2018**,		8
51	A Study on Load Fluctuation of Isolated DC-DC Converter with Class Phi-2 Inverter using GaN-HFET **2018**,		1
50	Virtual Synchronous Generator Control with Reliable Fault Ride-through Capability by Adopting Model Predictive Control **2018**,		2
49	Investigation of Peak Voltage Suppression Method at Startup in Isolated DC-DC Converter with Class Phi-2 Inverter **2018**,		1
48	. *IEEE Transactions on Smart Grid*, **2017**, 8, 2268-2277	10.7	231
47	Virtual Synchronous Generators: Dynamic Performance and Characteristics **2017**, 307-360		2
46	A Rotor-Current-Based Slip Angle Estimator for Grid-Connected Doubly Fed Induction Generator Requiring the Stator Inductance Only. *IEEE Transactions on Power Electronics*, **2017**, 32, 4827-4838	7.2	9
45	Model-predictive-control-based distributed control scheme for bus voltage unbalance and harmonics compensation in microgrids **2017**,		2
44	Power Control of Low Frequency AC Transmission Systems Using Cycloconverters with Virtual Synchronous Generator Control. *Energies*, **2017**, 10, 34	3.1	6
43	Fundamental Investigation of Isolated DC-DC Converter with Class-Φ Inverter. *Journal of the Japan Institute of Power Electronics*, **2017**, 43, 73-80	0	1
42	**2017**,		104
41	Direct Voltage Control With Slip Angle Estimation to Extend the Range of Supported Asymmetric Loads for Stand-Alone DFIG. *IEEE Transactions on Power Electronics*, **2016**, 31, 1015-1025	7.2	26
40	Parallel operation of a synchronous generator and a virtual synchronous generator under unbalanced loading condition in microgrids **2016**,		9
39	Power Quality improvement of microgrids by virtual synchronous generator control **2016**,		12
38	Analysis of Resonance in Microgrids and Effects of System Frequency Stabilization Using a Virtual Synchronous Generator. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 1287-1298	5.6	93
37	Comparison of Dynamic Characteristics Between Virtual Synchronous Generator and Droop Control in Inverter-Based Distributed Generators. *IEEE Transactions on Power Electronics*, **2016**, 31, 3600-3611	7.2	509
36	Highly Efficient dc-dc Transformer based on Multicell Converter Topology for Next Generation DC Distribution System. *IEEJ Transactions on Industry Applications*, **2016**, 136, 152-161	0.2	
35	A New Robust Decoupled Control of the Stator Active and Reactive Currents for Grid-Connected Doubly-Fed Induction Generators. *Energies*, **2016**, 9, 179	3.1	2

34	A Proposal on Low Frequency AC Transmission as a Multi-Terminal Transmission System. *Energies*, **2016**, 9, 687	3.1	2
33	A permanent magnet synchronous generator control approach for stand-alone gas engine generation system **2016**,		2
32	Control of Uninterrupted Switching Using a Virtual Synchronous Generator Between Stand-Alone and Grid-Connected Operation of a Distributed Generation System for Houses. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **2015**, 190, 26-36	0.4	4
31	Power System Stabilization Using Virtual Synchronous Generator With Alternating Moment of Inertia. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2015**, 3, 451-458	5.6	406
30	Contactless DC Connector Concept for High-Power-Density 380-V DC Distribution System. *IEEJ Journal of Industry Applications*, **2015**, 4, 49-58	0.7	6
29	Oscillation Damping of a Distributed Generator Using a Virtual Synchronous Generator. *IEEE Transactions on Power Delivery*, **2014**, 29, 668-676	4.3	276
28	Voltage sag ride-through performance of Virtual Synchronous Generator **2014**,		21
27	A Control Method based on Multi-Agent for a Large Scale Distributed Flexible Network Photovoltaic System. *IEEJ Transactions on Power and Energy*, **2014**, 134, 692-701	0.2	1
26	Machine parameter independent control of a grid-connected variable speed doubly-fed induction generator for gas engine generation systems **2013**,		3
25	A novel space vector control with capacitor voltage balancing for a multilevel modular matrix converter **2013**,		32
24	Implementation of sigma-delta modulation controller for single-phase three-wire inverter in stand-alone operation applied for hybrid generation system for residential houses **2013**,		2
23	Distribution Voltage Control for DC Microgrids Using Fuzzy Control and Gain-Scheduling Technique. *IEEE Transactions on Power Electronics*, **2013**, 28, 2246-2258	7.2	282
22	An analysis method of a DC microgrid using hardware-in-the-loop simulation **2012**,		7
21	Power electronics toward the era of distributed generations **2012**,		3
20	A novel soft-switching inverter for high power application with simple control **2012**,		2
19	Power System Stabilization Control by HVDC with SMES Using Virtual Synchronous Generator. *IEEJ Journal of Industry Applications*, **2012**, 1, 102-110	0.7	12
18	Stabilization of a Power System including Inverter Type Distributed Generators by the Virtual Synchronous Generator. *IEEJ Transactions on Power and Energy*, **2012**, 132, 341-349	0.2	34
17	Application of VSC-HVDC with Shunt Connected SMES for Compensation of Power Fluctuation. *IEEJ Transactions on Industry Applications*, **2012**, 132, 464-472	0.2	1

16	Accuracy evaluation of power hardware-in-the-loop simulation of a boost chopper **2010**,		2
15	Low-Voltage Bipolar-Type DC Microgrid for Super High Quality Distribution. *IEEE Transactions on Power Electronics*, **2010**, 25, 3066-3075	7.2	608
14	Stability and Accuracy Analysis of Power Hardware-in-the-loop Simulation of Inductor Coupled Systems. *IEEJ Transactions on Industry Applications*, **2010**, 130, 902-912	0.2	11
13	Transformer-Less Series Voltage Sag Compensator without Energy Storage Capacitor for Three-Phase Three-Line Systems. *IEEJ Transactions on Industry Applications*, **2007**, 127, 693-699	0.2	0
12	Parallel Type Voltage Sag Compensator with Reduced Capacitor by Boost Type Power Factor Correction Rectifier. *IEEJ Transactions on Power and Energy*, **2005**, 125, 5-17	0.2	2
11	Control Scheme of Fault Current Limiter by Series-Connected Voltage Sag Compensator. *IEEJ Transactions on Industry Applications*, **2004**, 124, 373-379	0.2	3
10	A Configuration and Control Method of DC Loop Type Distribution System Including Distributed Generators. *IEEJ Transactions on Power and Energy*, **2003**, 123, 964-973	0.2	10
9	A Power Control Scheme between Qnality Control Centers in FRIENDS. *IEEJ Transactions on Power and Energy*, **2003**, 123, 1443-1453	0.2	5
8	Configuration of a Voltage Sag Compensator by Use of a Micro-SMES and Its Experimental Results.. *IEEJ Transactions on Industry Applications*, **2003**, 123, 30-37	0.2	3
7	A Control Strategy for Active Filters using quasi-Instantaneous Positive Sequence Extraction Filters. *IEEJ Transactions on Industry Applications*, **2003**, 123, 445-453	0.2	
6	Definition of Power Quality for Unbundled Power Quality Service and the Configuration of AC-type Quality Control Center. *IEEJ Transactions on Power and Energy*, **2002**, 122, 1384-1394	0.2	1
5	Low Temperature Characteristics of Power Semiconductor Devices and Configuration of a Power Converter Operating in a Cryostat.. *TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)*, **1992**, 27, 125-133	0.1	
4	Configuration and characteristics of the GTO converter using regenerative voltage clipper circuit.. *IEEJ Transactions on Power and Energy*, **1986**, 106, 761-768	0.2	1
3	Characteristics and control system of 0.5MJ superconducting pulsed magnet.. *IEEJ Transactions on Power and Energy*, **1984**, 104, 669-676	0.2	
2	Power and reactive power simultaneous control by 0.5MJ superconducting magnet energy storage.. *IEEJ Transactions on Power and Energy*, **1984**, 104, 545-552	0.2	
1	DC micro-grid for super high quality distribution System configuration and control of distributed generations and energy storage devices		77