Tsuyoshi Hanamoto

List of Publications by Year
in descending order

57 papers	270 citations	1162367 8 h-index	1125271 13 g-index
57 all docs	57 docs citations	57 times ranked	290 citing authors

#	Article	IF	Citations
1	Automated QFT-Based PI Tuning for Speed Control of SynRM Drive with Analytical Selection of QFT Control Specifications. Energies, 2022, 15, 642.	1.6	2
2	Implementation Strategy for Resource Optimization of FPGA-Based Adaptive Finite Control Set-MPC Using XSG for a VSI System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2066-2078.	3.7	4
3	Step-by-Step Development and Implementation of FS-MPC for a FPGA-Based PMSM Drive System. Electronics (Switzerland), 2021, 10, 395.	1.8	10
4	Improving Position Estimation Accuracy of Magnetic Saliency Based Sensorless Control by Considering Cross-Coupling Factor. IEEJ Journal of Industry Applications, 2021, 10, 18-26.	0.9	8
5	Synchronization and Sampling Time Analysis of Feedback Loop for FPGA-Based PMSM Drive System. Electronics (Switzerland), 2020, 9, 1906.	1.8	5
6	Simplified Design of Magnetic Gear by Considering the Maximum Transmission Torque Line. Applied Sciences (Switzerland), 2020, 10, 8581.	1.3	5
7	FPGA-Based Implementation of Finite Set-MPC for a VSI System Using XSG-Based Modeling. Energies, 2020, 13, 260.	1.6	3
8	Robust Sensorless Speed Control of Synchronous Reluctance Motor using Modified Moving Horizon Estimation Method. , 2020, , .		0
9	Two-degree-of-freedom (2DOF) Speed Control based FS-MPC for PMSM Drives. , 2020, , .		2
10	Realization of High Torque Density Encoderless Servo Drive System. , 2019, , .		4
11	Discrete Adaptive HCC Based FS-MPC with Constant Switching Frequency for PMSM Drives. , 2019, , .		1
12	A Hardware-in-the-Loop Simulation Approach for Analysis of Permanent Magnet Synchronous Motor Drive. , 2019, , .		7
13	FPGA-based Development of Finite State-MPC for Three-Phase Grid-Connected VSI System. , 2019, , .		0
14	Design and Experimental Verification of 400-WClass LED Driver with Cooperative Control Method for Two-Parallel Connected DC/DC Converters. Energies, 2018, 11, 2237.	1.6	3
15	POWER DENSITY EVALUATION OF A NOVEL DOUBLE-STATOR MAGNETIC GEARED PERMANENT MAGNET GENERATOR. Progress in Electromagnetics Research B, 2018, 80, 19-36.	0.7	4
16	Xilinx System Generator Based Modelling of Finite State MPC. , 2018, , .		3
17	Comparative Analysis of Finite Control Set MPC for Voltage Source Inverter. , 2018, , .		2
18	Model-based design approach for implementation of finite state MPC. , 2018, , .		4

#	Article	IF	Citations
19	HIL Co-Simulation of Finite Set-Model Predictive Control Using FPGA for a Three-Phase VSI System. Energies, 2018, 11, 909.	1.6	20
20	Application of Fictitious Reference Iterative Tuning to Controller Design for Various Machines. , 2018, , .		1
21	Two degrees of freedom dc voltage controller of grid interfaced PV system with optimized gains. International Journal of Electrical Power and Energy Systems, 2017, 85, 87-96.	3.3	8
22	Torque Distribution Characteristics of a Novel Double-Stator Permanent Magnet Generator Integrated with a Magnetic Gear. Energies, 2017, 10, 2.	1.6	27
23	Consideration on control method of the large-sized gantry-type linear motor slider. , 2017, , .		2
24	Comprehensive Analysis of LCL Filter Interfaced Cascaded H-Bridge Multilevel Inverter-Based DSTATCOM. Energies, 2017, 10, 346.	1.6	11
25	Power Characteristics Analysis of a Novel Double-Stator Magnetic Geared Permanent Magnet Generator. Energies, 2017, 10, 2048.	1.6	3
26	Control Model for Large-sized Gantry Type Liner Motor Slider. IEEJ Transactions on Industry Applications, 2017, 137, 746-752.	0.1	0
27	A New Maximum Power Point Estimator Control Strategy to Maximize Output Power of the Double Stator Permanent Magnet Generator. Applied Sciences (Switzerland), 2016, 6, 218.	1.3	0
28	A NOVEL DOUBLE-STATOR PERMANENT MAGNET GENERATOR INTEGRATED WITH A MAGNETIC GEAR. Progress in Electromagnetics Research M, 2016, 49, 69-80.	0.5	5
29	Multiband HCC for cascaded H-bridge multilevel inverter based DSTATCOM. , 2016, , .		2
30	The Study of Operation Modes and Control Strategies of a Multidirectional MC for Battery Based System. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	0
31	Application of fictitious reference iterative tuning to vibration suppression controller for 2-inertia resonance system. , 2015, , .		4
32	FRIT based PI tuning for speed control of PMSM using FPGA for high frequency SiC MOSFET inverter. , 2015, , .		2
33	FRIT based optimized PI tuning for DC link voltage control of grid connected solar PV system. , 2015, , .		8
34	Improvement in power quality using Fryze conductance algorithm controlled grid connected solar PV system. , 2015, , .		3
35	2-DOF based novel controller design for DC voltage regulation of LCL interfaced three phase grid connected solar PV system. , 2015, , .		1
36	DDPWM-based power conversion system using three to four phase matrix converter for stand-alone power system. , 2015, , .		1

#	Article	IF	Citations
37	Novel controller design for DC link voltage control of grid connected PV system and optimized PI response analysis with improved transients. , 2015, , .		2
38	Novel Modulation Method for Multidirectional Matrix Converter. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	3
39	Position sensorless start-up method of surface permanent magnet synchronous motor using nonlinear rotor position observer. , 2014, , .		5
40	A MPPT control method of thermoelectric power generation with single sensor. , 2013, , .		3
41	Rotor position estimator using non-linear observer of surface permanent magnet synchronous motor. , 2013, , .		1
42	A Novel MPPT Control Method of Thermoelectric Power Generation with Single Sensor. Applied Sciences (Switzerland), 2013, 3, 545-558.	1.3	13
43	Harmonics reduction of three phase five-level Neutral-Point-Clamped Multilevel Inverter. , 2012, , .		3
44	A novel method of suppressing inrush currents of squirrel-cage induction machine using matrix converter in wind power generation systems. , 2012, , .		2
45	A novel MPPT control method of thermoelectric power generation using state space averaging method. , 2011, , .		4
46	Wide-Speed-Range Sensorless Vector Control of Synchronous Reluctance Motors Based on Extended Programmable Cascaded Low-Pass Filters. IEEE Transactions on Industrial Electronics, 2011, 58, 2322-2333.	5.2	32
47	Performance Improvement of a Portable Electric Generator Using an Optimized Bio-Fuel Ratio in a Single Cylinder Two-Stroke Engine. Energies, 2011, 4, 1937-1949.	1.6	9
48	Sensorless speed control of synchronous reluctance motor using a novel flux estimator based on Recursive Fourier Transformation. , 2009, , .		6
49	Digital hardware control system of PMSM for high precision torque control with linear servo amplifier. , 2009, , .		1
50	An estimation method of rotational direction and speed for free running AC machines without speed and voltage sensor. , 2009, , .		3
51	Digital hardware circuit using FPGA for speed control system of permanent magnet synchronous motor. , 2008, , .		3
52	Very Low Speed Sensorless Vector Control of Synchronous Reluctance Motors with a Novel Startup Scheme. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	5
53	Digital speed control of multi-inertia resonant system using real time simulator. , 2007, , .		0
54	RTLinux based speed control system of SPMSM with an online real time simulator. IEEJ Transactions on Industry Applications, 2006, 126, 453-458.	0.1	6

#	Article	IF	Citations
55	Identification and Control of Non-linear System with Friction. Transactions of the Society of Instrument and Control Engineers, 2001, 37, 229-234.	0.1	0
56	Application of Eventual Sliding-mode Technique in Flexible Arm Control. Transactions of the Society of Instrument and Control Engineers, 2000, 36, 723-725.	0.1	1
57	Application of Non-linear Observer in Flexible Arm Control. Transactions of the Society of Instrument and Control Engineers, 1999, 35, 401-406.	0.1	3