

# Jun-Ichi Itoh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/104241/publications.pdf>

Version: 2024-02-01

112  
papers

1,120  
citations

840776

11  
h-index

752698

20  
g-index

112  
all docs

112  
docs citations

112  
times ranked

961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ripple Current Reduction of a Fuel Cell for a Single-Phase Isolated Converter Using a DC Active Filter With a Center Tap. IEEE Transactions on Power Electronics, 2010, 25, 550-556.	7.9	196
2	A Novel Single-Phase Buck PFC AC-DC Converter With Power Decoupling Capability Using an Active Buffer. IEEE Transactions on Industry Applications, 2014, 50, 1905-1914.	4.9	115
3	A Single-Phase Current-Source PV Inverter With Power Decoupling Capability Using an Active Buffer. IEEE Transactions on Industry Applications, 2015, 51, 531-538.	4.9	89
4	Development of DC to Single-Phase AC Voltage Source Inverter With Active Power Decoupling Based on Flying Capacitor DC/DC Converter. IEEE Transactions on Power Electronics, 2018, 33, 4992-5004.	7.9	65
5	A Novel Three-Phase PFC Rectifier Using a Harmonic Current Injection Method. IEEE Transactions on Power Electronics, 2008, 23, 715-722.	7.9	54
6	High Power Density Design for a Modular Multilevel Converter With an H-Bridge Cell Based on a Volume Evaluation of Each Component. IEEE Transactions on Power Electronics, 2018, 33, 1967-1984.	7.9	46
7	Reduction in Radiation Noise Level for Inductive Power Transfer Systems Using Spread Spectrum Techniques. IEEE Transactions on Power Electronics, 2018, 33, 3076-3085.	7.9	42
8	Current Harmonic Reduction Based on Space Vector PWM for DC-Link Capacitors in Three-Phase VSIs Operating Over a Wide Range of Power Factor. IEEE Transactions on Power Electronics, 2019, 34, 4853-4867.	7.9	33
9	Isolated Single-Phase Matrix Converter Using Center-Tapped Transformer for Power Decoupling Capability. IEEE Transactions on Industry Applications, 2018, 54, 1523-1531.	4.9	23
10	A New Bidirectional Switch With Regenerative Snubber to Realize a Simple Series Connection for Matrix Converters. IEEE Transactions on Power Electronics, 2009, 24, 822-829.	7.9	20
11	Evaluation of total loss for an inverter and motor by applying modulation strategies. , 2010, , .		19
12	Maximum torque per ampere control method for IPM Synchronous Motor based on V/f control. , 2013, , .		16
13	Volume evaluation of a PWM inverter with wide band-gap devices for motor drive system. , 2013, , .		16
14	Space vector modulation based on virtual indirect control for high frequency AC-linked matrix converter. , 2014, , .		16
15	Improvement of waveform for high frequency AC-linked matrix converter with SVM based on virtual indirect control. , 2015, , .		16
16	Total loss comparison of inverter circuit topologies with interior permanent magnet synchronous motor drive system. , 2013, , .		14
17	Proposal of Switched-mode Matching Circuit in power supply for wireless power transfer using magnetic resonance coupling. , 2012, , .		11
18	Capacitor volume evaluation based on ripple current in modular multilevel converter. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
19	Current Stress Reduction for DC-Link Capacitors of Three-Phase VSI With Carrier-Based Continuous PWM. IEEE Transactions on Industry Applications, 2019, 55, 6061-6072.	4.9	11
20	PV Micro-Inverter Topology Using LLC Resonant Converter. Energies, 2019, 12, 3106.	3.1	11
21	A 22 kW-85 kHz Three-phase Wireless Power Transfer System with 12 coils. , 2019, , .		11
22	A novel single-phase buck PFC AC-DC converter using an active buffer. , 2012, , .		10
23	A Novel Control Method focusing on reactive power for a dual active bridge converter. , 2014, , .		10
24	Galvanic Isolation System with Wireless Power Transfer for Multiple Gate Driver Supplies of a Medium-voltage Inverter. IEEJ Journal of Industry Applications, 2016, 5, 206-214.	1.1	9
25	Circulation current reduction for a motor simulator system using a power converter with a common mode transformer. , 2009, , .		8
26	Evaluation of control methods for isolated three-phase AC-DC converter using modular multilevel converter topology. , 2013, , .		8
27	Evaluation of a maximum power density design method for matrix converter using SiC-MOSFET. , 2014, , .		8
28	Evaluation of isolated three-phase AC-DC converter using Modular Multilevel Converter topology. , 2014, , .		8
29	Derivation of operation mode for flying capacitor topology applied to three-level DAB converter. , 2015, , .		8
30	FRT capability of single-phase grid-connected inverter with minimized interconnected inductor. , 2017, , .		8
31	Inductance-Independent Nonlinearity Compensation for Single-Phase Grid-Tied Inverter Operating in Both Continuous and Discontinuous Current Mode. IEEE Transactions on Power Electronics, 2019, 34, 4904-4919.	7.9	8
32	A novel control strategy for a combined system using both matrix converter and inverter without interconnection reactors. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	7
33	Reduction on radiation noise level for inductive power transfer systems with spread spectrum focusing on combined impedance of coils and capacitors. , 2016, , .		7
34	Non-linear Dead-time Error Compensation Method of Dual Active Bridge DC-DC Converter for Variable DC-bus Voltage. , 2018, , .		7
35	ZVRT Capability of Single-Phase Grid-Connected Inverter With High-Speed Gate-Block and Minimized <i>LCL</i> Filter Design. IEEE Transactions on Industry Applications, 2018, 54, 5387-5399.	4.9	7
36	Modified single-switch bridgeless PFC SEPIC structure by eliminating circulating current and power quality improvement. IET Power Electronics, 2019, 12, 3792-3801.	2.1	7

#	ARTICLE	IF	CITATIONS
37	A Modular Multilevel Interface for Transformerless Grid Integration of Large-Scale Infrastructure for Wireless Electric Vehicle Charging. , 2019, , .		7
38	Dead-Time Voltage Error Correction with Parallel Disturbance Observers for High Performance V/f Control. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	6
39	Miniaturization of the boost-up type active buffer circuit in a single-phase inverter. , 2014, , .		6
40	Torque ripple reduction method of permanent magnet synchronous motor by current sensor gain unbalance correction. , 2015, , .		6
41	Control strategy for a three-phase to single-phase power converter using an active buffer with a small capacitor. , 2009, , .		5
42	Evaluation method of energy consumption for permanent magnet synchronous motor drive system. , 2015, , .		5
43	Evaluation for overall volume of capacitor and heat-sink in step-down rectifier using modular multilevel converter. , 2015, , .		5
44	Open-loop control for permanent magnet synchronous motor driven by square-wave voltage and stabilization control. , 2016, , .		5
45	Zero voltage switching over entire load range and wide voltage variation of parallelly-connected dual-active-bridge converter using power-circulating operation. , 2017, , .		5
46	Radiation noise reduction using spread spectrum for inductive power transfer systems considering misalignment of coils. , 2017, , .		5
47	Hybrid commutation method with current direction estimation for three-phase-to-single-phase matrix converter. , 2018, , .		5
48	Pattern design criteria of main circuit using printed circuit boards for parasitic inductance reduction. , 2014, , .		4
49	Battery energy storage system with isolated single-phase matrix converter using center-tapped transformer for power decoupling capability. , 2015, , .		4
50	Reduction of DC-link current harmonics for three-phase VSI over wide power factor range using single-carrier-comparison discontinuous PWM. , 2017, , .		4
51	Radiative Noise Reduction Technique Using 12 Coils Suitable for High-Power Inductive Power Transfer. , 2018, , .		4
52	Reduction of DC-Link Current Harmonics Over Wide Power-Factor Range for Three-Phase VSI Using Single-Carrier-Comparison Continuous PWM. , 2018, , .		4
53	Stabilization Method Using Equivalent Resistance Gain Based on V/f Control for IPMSM with Long Electrical Time Constant. , 2018, , .		4
54	Universal Smart Power Module (USPM) for Carbon Neutral Society. , 2022, , .		4

#	ARTICLE	IF	CITATIONS
55	Investigation of switching loss reduction for the matrix converter based on virtual AC/DC/AC conversion using space vector modulation. , 2012, , .		3
56	Investigation for high output of 2.5MHz power supply constructed from multi-core transformers and a multi-phase inverter and application for wireless power transfer. , 2014, , .		3
57	Clarification of relationship between current ripple and power density in bidirectional DC-DC converter. , 2016, , .		3
58	DC to single-phase AC grid-tied inverter using buck type active power decoupling without additional magnetic component. , 2017, , .		3
59	Reduction of Transmission Power Error and Current for Dual Active Bridge DC-DC Converter in Energy Storage Systems. , 2018, , .		3
60	Design Method of Cooling Structure Considering Load Fluctuation of High-power Wireless Power Transfer System. , 2019, , .		3
61	Isolated DC to Single-phase AC Converter with Active Power Decoupling Capability for Battery Storage System. , 2019, , .		3
62	Low-EMF Wireless Power Transfer Systems of Four-Winding Coils with Injected Reactance-Compensation Current as Active Shielding. , 2021, , .		3
63	Efficiency Improvement of Current-Fed DAB Converter by Triangular Current Mode for Wide Voltage Applications. , 2022, , .		3
64	Dead-Time Voltage Error Correction with Parallel Disturbance Observers for High Performance V/f Control. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	2
65	Output voltage correction of an induction motor drive using a disturbance observer with speed sensor-less vector control method. , 2009, , .		2
66	Experimental verification of a one-turn transformer power supply circuit for gate drive unit. , 2010, , .		2
67	Verification of effectiveness of a matrix converter with boost-up AC chopper by using an IPM motor. , 2012, , .		2
68	Multi-level inverter with H-bridge clamp circuit for single-phase three-wire grid connection suitable for Super-junction/SiC MOSFET. , 2012, , .		2
69	Fast starting method using both inverter and delta-star starter for weaving machine drive systems. , 2013, , .		2
70	Damping control combined to output stage for a multi-modular matrix converter. , 2013, , .		2
71	Several-hundred-kHz single-phase to commercial frequency three-phase matrix converter using delta-sigma modulation with space vector. , 2014, , .		2
72	Suppression of short-circuit current in halt sequence to stop two-level inverter connected to PMSM during regeneration mode. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
73	Bidirectional single-phase Solid-State Transformer using multi cell for volume reduction of high voltage capacitor. , 2017, , .		2
74	Loss reduction of 13.56 MHz inverter based on frequency multiplying method. , 2017, , .		2
75	Control Method of Flying Capacitor Converter Operated in Discontinuous Current Mode for High Voltage Photovoltaic Cell. , 2018, , .		2
76	General Analytical Model for Inductive Power Transfer System with EMF Canceling Coils. , 2018, , .		2
77	Switching Device Number Reduction for Three-Phase Cascade-Modular Solid-State Transformer System with Employment of Three-Phase T-Type Converter. , 2019, , .		2
78	Thermal Stress Reduction for DC-link Capacitors of Three-phase VSI with Multiple PWM Switching Patterns. , 2019, , .		2
79	Downsizing of Three-Phase Wireless Power Transfer System with 12 coils by Reducing Magnetic Interference. , 2020, , .		2
80	Isolated DC to Single-Phase AC Converter with Active Power Decoupling Capability Using Coupled Inductor. IEEJ Journal of Industry Applications, 2021, , .	1.1	2
81	High Power Density Design of Single-Phase AC/DC Converter with Active Power Decoupling Capability Utilizing Triangular Current Mode for LED Driver Applications. , 2022, , .		2
82	Direct grid connection of matrix converter with transition control for flywheel UPS. , 2012, , .		1
83	Wireless power transfer based on MHz inverter through PCB antenna. , 2013, , .		1
84	Experimental verifications and desing procedure of an AC-DC converter with input impedance matching for wireless power transfer systems. , 2013, , .		1
85	Experimental verification of wireless charging system for vehicle application using EDLCs. , 2014, , .		1
86	Loss minimization design using magnetic equivalent circuit for a permanent magnet synchronous motor. , 2014, , .		1
87	Revelation of soft-switching operation for isolated DC to single-phase AC converter with power decoupling. , 2015, , .		1
88	Isolated single-phase AC grid connected converter with small inductors and capacitors for micro-inverters. , 2017, , .		1
89	Stabilization method of current regulator for electric vehicle motor drive systems under motor parameter mismatch conditions. , 2017, , .		1
90	Power factor correction focusing on magnetic coupling of parallel-connected wires for inductive power transfer system. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
91	Two-step commutation for Isolated DC-AC Converter with Matrix Converter. , 2018, , .		1
92	Control Method of Flying Capacitor Converter Operated in Discontinuous Current Mode and Critical Current Mode. , 2018, , .		1
93	One-inductor single-stage differential boost inverter operated in discontinuous current mode for single-phase grid-tied photovoltaic system. , 2018, , .		1
94	Multi-port Converter with Square-wave-voltage Multilevel Converter and Active Power Filter Connected in Series. , 2019, , .		1
95	Analysis of Wireless Power Transfer System Employing Active Shielding with Virtual Inductance and Two-port Equivalent Circuit. , 2021, , .		1
96	A study of quantitative design method of adaptive current control system with armature resistance identification function. , 2012, , .		0
97	Motor performance investigation of an indirect matrix converter with a reactor-free boost converter. IEEJ Transactions on Electrical and Electronic Engineering, 2012, 7, 429-435.	1.4	0
98	Efficiency and damping control evaluation of a matrix converter with a boost-up AC chopper in adjustable speed drive system. , 2013, , .		0
99	Experimental verification of low-voltage power supply with 10,000-A pulse output for Spark Plasma Sintering. , 2014, , .		0
100	High-efficiency of MHz inverter constructed from frequency multiplying circuit. , 2015, , .		0
101	Ride through capability of matrix converter for grid connected system under short voltage sag. , 2015, , .		0
102	Decentralized voltage restoration method for droop controlled parallel operation inverters in AC microgrid. , 2017, , .		0
103	Expansion of FRT operation range for grid-tied matrix converter system. , 2017, , .		0
104	Passive-Damped LCL Filter Optimization for Single-Phase Grid-Tied Inverters Operating in Both Continuous and Discontinuous Current Mode. , 2018, , .		0
105	Expansion of FRT Operation Range and Reduction of Grid Current Distortion for Grid-Tied Matrix Converter. , 2018, , .		0
106	Loss Analysis of T-type NPC Inverter with Active Power Decoupling Capability Operated in Discontinuous Current Mode. , 2019, , .		0
107	Comparative Verification of Radiation Noise Reduction Effect Using Spread Spectrum for Inductive Power Transfer System. World Electric Vehicle Journal, 2019, 10, 40.	3.0	0
108	DC Ripple Component Cancellation Method of Isolated AC-DC Converter with Matrix Converter for Input Current Harmonics Reduction. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
109	Voltage THD Reduction with Discontinuous Current Mode Control for Islanded-mode Operation in Single-phase Grid-tied Inverter. , 2019, , .		0
110	Development of a battery management system with flying capacitorâ€”type multiport converter in the discontinuous current mode. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq0 0 0 rgBT, @verlock 10 Tf 50 6	0.0	0
111	0919 Characterization of 3MJ Flywheel Energy Storage System. The Proceedings of Conference of Hokuriku-Shinetsu Branch, 2012, 2012.49, 091901-091902.	0.0	0
112	Independent Control of Multiple Capacitor Voltages for Multi-Level Flying-Capacitor DC-DC Converter. IEEJ Transactions on Industry Applications, 2018, 138, 471-472.	0.2	0