

Masatoshi Uno

List of Publications by Year in descending order

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129
papers

2,546
citations

201674

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129
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129
times ranked

1392
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of High-Frequency Charge/Discharge Cycling Induced by Cell Voltage Equalizers on the Life Performance of Lithium-Ion Cells. IEEE Transactions on Vehicular Technology, 2011, 60, 1505-1515.	6.3	185
2	Single-Switch Multioutput Charger Using Voltage Multiplier for Series-Connected Lithium-Ion Battery/Supercapacitor Equalization. IEEE Transactions on Industrial Electronics, 2013, 60, 3227-3239.	7.9	151
3	Accelerated Charge/Discharge Cycling Test and Cycle Life Prediction Model for Supercapacitors in Alternative Battery Applications. IEEE Transactions on Industrial Electronics, 2012, 59, 4704-4712.	7.9	150
4	Single-Switch Cell Voltage Equalizer Using Multistacked Buck-Boost Converters Operating in Discontinuous Conduction Mode for Series-Connected Energy Storage Cells. IEEE Transactions on Vehicular Technology, 2011, 60, 3635-3645.	6.3	129
5	Double-Switch Equalizer Using Parallel- or Series-Parallel-Resonant Inverter and Voltage Multiplier for Series-Connected Supercapacitors. IEEE Transactions on Power Electronics, 2014, 29, 812-828.	7.9	89
6	Bidirectional PWM Converter Integrating Cell Voltage Equalizer Using Series-Resonant Voltage Multiplier for Series-Connected Energy Storage Cells. IEEE Transactions on Power Electronics, 2015, 30, 3077-3090.	7.9	89
7	Two-Switch Voltage Equalizer Using an LLC Resonant Inverter and Voltage Multiplier for Partially Shaded Series-Connected Photovoltaic Modules. IEEE Transactions on Industry Applications, 2015, 51, 1587-1601.	4.9	85
8	Single-Switch Voltage Equalizer Using Multistacked Buck/Boost Converters for Partially Shaded Photovoltaic Modules. IEEE Transactions on Power Electronics, 2015, 30, 3091-3105.	7.9	81
9	Double-Switch Single-Transformer Cell Voltage Equalizer Using a Half-Bridge Inverter and a Voltage Multiplier for Series-Connected Supercapacitors. IEEE Transactions on Vehicular Technology, 2012, 61, 3920-3930.	6.3	76
10	Switched Capacitor Converter Based Multiport Converter Integrating Bidirectional PWM and Series-Resonant Converters for Standalone Photovoltaic Systems. IEEE Transactions on Power Electronics, 2019, 34, 1394-1406.	7.9	76
11	Single-Switch Single-Transformer Cell Voltage Equalizer Based on Forward/Flyback Resonant Inverter and Voltage Multiplier for Series-Connected Energy Storage Cells. IEEE Transactions on Vehicular Technology, 2014, 63, 4232-4247.	6.3	67
12	Cycle Life Evaluation Based on Accelerated Aging Testing for Lithium-Ion Capacitors as Alternative to Rechargeable Batteries. IEEE Transactions on Industrial Electronics, 2016, 63, 1607-1617.	7.9	66
13	Current Sensorless Equalization Strategy for a Single-Switch Voltage Equalizer Using Multistacked Buck/Boost Converters for Photovoltaic Modules Under Partial Shading. IEEE Transactions on Industry Applications, 2017, 53, 420-429.	4.9	58
14	PWM Converter Integrating Switched Capacitor Converter and Series-Resonant Voltage Multiplier as Equalizers for Photovoltaic Modules and Series-Connected Energy Storage Cells for Exploration Rovers. IEEE Transactions on Power Electronics, 2017, 32, 8500-8513.	7.9	57
15	PWM Switched Capacitor Converter With Switched-Capacitor-Inductor Cell for Adjustable High Step-Down Voltage Conversion. IEEE Transactions on Power Electronics, 2019, 34, 425-437.	7.9	56
16	String-to-Battery Voltage Equalizer Based on a Half-Bridge Converter With Multistacked Current Doublers for Series-Connected Batteries. IEEE Transactions on Power Electronics, 2019, 34, 1286-1298.	7.9	51
17	Nonisolated Multiport Converters Based on Integration of PWM Converter and Phase-Shift-Switched Capacitor Converter. IEEE Transactions on Power Electronics, 2020, 35, 455-470.	7.9	50
18	Single-Switch Single-Magnetic PWM Converter Integrating Voltage Equalizer for Partially Shaded Photovoltaic Modules in Standalone Applications. IEEE Transactions on Power Electronics, 2018, 33, 1259-1270.	7.9	48

#	ARTICLE	IF	CITATIONS
19	Supercapacitor-based energy storage system with voltage equalizers and selective taps. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	44
20	Equalization technique utilizing series-parallel connected supercapacitors for energy storage system. , 2008, , .		44
21	Development and on-orbit operation of lithium-ion pouch battery for small scientific satellite REIMEI. Journal of Power Sources, 2011, 196, 8755-8763.	7.8	41
22	Partially Isolated Single-Magnetic Multiport Converter Based on Integration of Series-Resonant Converter and Bidirectional PWM Converter. IEEE Transactions on Power Electronics, 2018, 33, 9575-9587.	7.9	41
23	Modularized Equalization Architecture With Voltage Multiplier-Based Cell Equalizer and Switchless Switched Capacitor Converter-Based Module Equalizer for Series-Connected Electric Double-Layer Capacitors. IEEE Transactions on Power Electronics, 2019, 34, 6356-6368.	7.9	37
24	Module-Integrated Converter Based on Cascaded Quasi-Z-Source Inverter With Differential Power Processing Capability for Photovoltaic Panels Under Partial Shading. IEEE Transactions on Power Electronics, 2019, 34, 11553-11565.	7.9	36
25	Pt/C catalyst degradation in proton exchange membrane fuel cells due to high-frequency potential cycling induced by switching power converters. Journal of Power Sources, 2011, 196, 9884-9889.	7.8	35
26	Spacecraft Electrical Power System using Lithium-Ion Capacitors. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 175-188.	4.7	33
27	Modularized Differential Power Processing Architecture Based on Switched Capacitor Converter to Virtually Unify Mismatched Photovoltaic Panel Characteristics. IEEE Transactions on Power Electronics, 2020, 35, 1563-1575.	7.9	33
28	PWM Switched Capacitor-Based Cell-Level Power Balancing Converter Utilizing Diffusion Capacitance of Photovoltaic Cells. IEEE Transactions on Power Electronics, 2019, 34, 10675-10687.	7.9	29
29	Reactant recirculation system utilizing pressure swing for proton exchange membrane fuel cell. Journal of Power Sources, 2011, 196, 2558-2566.	7.8	28
30	Cycle life evaluation of 3Ah Li _x Mn ₂ O ₄ -based lithium-ion secondary cells for low-earth-orbit satellites. Journal of Power Sources, 2008, 185, 1444-1453.	7.8	27
31	Modular Equalization System Using Dual Phase-Shift-Controlled Capacitively Isolated Dual Active Bridge Converters to Equalize Cells and Modules in Series-Connected Lithium-Ion Batteries. IEEE Transactions on Power Electronics, 2021, 36, 2983-2995.	7.9	23
32	Accelerated ageing testing and cycle life prediction of supercapacitors for alternative battery applications. , 2011, , .		19
33	Small satellite REIMEI for auroral observations. Acta Astronautica, 2011, 69, 499-513.	3.2	19
34	Charge and Discharge Performance of Over-Discharged Lithium-ion Secondary Battery-Lessons Learned from the Operation of the Interplanetary Spacecraft HAYABUSA. Electrochemistry, 2007, 75, 950-957.	1.4	18
35	Differential Power Processing Converter Enhancing Energy Yield of Curved Solar Roofs of Plug-In Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 14689-14700.	6.3	18
36	Interactive charging performance of a series connected battery with shunting equalizers. , 2009, , .		16

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37	Transformerless Bidirectional PWM Converter Integrating Voltage Multiplier-Based Cell Voltage Equalizer for Series-Connected Electric Double-Layer Capacitors. IEEE Transactions on Power Electronics, 2019, 34, 4304-4315.	7.9	16
38	Three-Phase Interleaved LLC Asymmetric Resonant Converter With Capacitive Current Balancing and Reduced Switch Voltage Stress. IEEE Access, 2020, 8, 5688-5698.	4.2	16
39	Tapped-Inductor-Based Single-Magnetic Bidirectional PWM Converter Integrating Cell Voltage Equalizer for Series-Connected Supercapacitors. IEEE Transactions on Power Electronics, 2020, 35, 13157-13171.	7.9	16
40	The Performance of the Lithium-Ion Secondary Cells under Micro-Gravity Conditions-In-Orbit Operation of the Interplanetary Spacecraft 'HAYABUSA'. Electrochemistry, 2007, 75, 518-522.	1.4	14
41	Development and demonstration flight of a fuel cell system for high-altitude balloons. Journal of Power Sources, 2009, 193, 788-796.	7.8	14
42	Cycle life evaluation of 3Ah LiMn2O4-based lithium-ion secondary cells for low-earth-orbit satellites. Journal of Power Sources, 2008, 185, 1454-1464.	7.8	13
43	Bidirectional Interleaved PWM Converter with High Voltage-Conversion Ratio and Automatic Current Balancing Capability for Single-Cell Battery Power System in Small Scientific Satellites. Energies, 2018, 11, 2702.	3.1	13
44	Cell Voltage Equalizer Using a Selective Voltage Multiplier with a Reduced Selection Switch Count for Series-Connected Energy Storage Cells. Electronics (Switzerland), 2019, 8, 1303.	3.1	13
45	Variable switching frequency modulation scheme for PWM converter integrating series-resonant voltage multiplier-based voltage equalizer for photovoltaic strings under partial shading. IEEE Transactions on Electrical and Electronic Engineering, 2019, 14, 467-474.	1.4	13
46	Nonisolated PWM Three-Port Converter Realizing Reduced Circuit Volume for Satellite Electrical Power Systems. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3394-3408.	4.7	12
47	Modular Equalization System Based on Star-Connected Phase-Shift Switched Capacitor Converters With Inherent Constant Current Characteristics for Electric Double-Layer Capacitor Modules. IEEE Transactions on Power Electronics, 2020, 35, 10271-10284.	7.9	12
48	Switched Capacitor-Based PWM- and Phase Shift-Controlled Multiport Converter With Differential Power Processing Capability for Standalone Photovoltaic Systems Under Partial Shading. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6019-6032.	5.4	12
49	Partially Isolated Multiport Converter With Automatic Current Balancing Interleaved PWM Converter and Improved Transformer Utilization for EV Batteries. IEEE Transactions on Transportation Electrification, 2023, 9, 1273-1288.	7.8	12
50	Series-parallel reconfiguration technique for supercapacitor energy storage systems. , 2009, , .		11
51	Single-switch cell voltage equalizer using voltage multipliers for series-connected supercapacitors. , 2012, , .		11
52	Multi-port converter integrating two PWM converters for multi-power-source systems. , 2017, , .		11
53	Unregulated interface converter based on cascaded switched capacitor converters for supercapacitors in alternative battery applications. , 2011, , .		10
54	Panel-to-Substring Differential Power Processing Converter With Embedded Electrical Diagnosis Capability for Photovoltaic Panels Under Partial Shading. IEEE Transactions on Power Electronics, 2021, 36, 10239-10250.	7.9	10

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55	Storage of a lithium-ion secondary battery under micro-gravity conditions. Journal of Power Sources, 2008, 181, 149-154.	7.8	9
56	Electric Double-Layer Capacitor Module with Series-Parallel Reconfigurable Cell Voltage Equalizers. IEEJ Transactions on Industry Applications, 2011, 131, 729-738.	0.2	8
57	A single-switch equalization charger using multiple stacked buck-boost converters for series-connected energy-storage modules. Electrical Engineering in Japan (English Translation of Denki Tj ETQq0.4 0.784314 rgBT	0.4	7
58	LLC Resonant Voltage Multiplier-Based Differential Power Processing Converter Using Voltage Divider with Reduced Voltage Stress for Series-Connected Photovoltaic Panels under Partial Shading. Electronics (Switzerland), 2019, 8, 1193.	3.1	7
59	Equalization chargers using capacitor-diode networks for series-connected energy storage cells. , 2010, , .		6
60	Single-switch constant-power equalization charger based on multi-stacked buck-boost converters for series-connected supercapacitors in satellite power systems. , 2011, , .		6
61	Two-Switch Voltage Equalizer Using a Series-Resonant Voltage Multiplier Operating in Frequency-Multiplied Discontinuous Conduction Mode for Series-Connected Supercapacitors. IEICE Transactions on Communications, 2015, E98.B, 842-853.	0.7	6
62	Transformer-less bidirectional PWM converter integrating cell voltage equalizer using voltage multiplier for series connected energy storage cells. , 2017, , .		6
63	Non-isolated multi-port converter integrating PWM and phase-shift converters. , 2017, , .		6
64	Direct Cell-to-Cell Voltage Equalizer Using Capacitively-Isolated Parallel-Resonant Converter for Series-Connected Energy Storage Cells. , 2018, , .		6
65	Review, Comparison, and Proposal for PWM Converters Integrating Differential Power Processing Converter for Small Exploration Rovers. Energies, 2019, 12, 1919.	3.1	6
66	Single-Switch Equalization Charger Using Multiple Stacked Buck-Boost Converters for Series-Connected Energy-Storage Modules. IEEJ Transactions on Industry Applications, 2011, 131, 1203-1211.	0.2	6
67	Dual Active Bridge Converter with AC Heating Capability for Lithium-ion Batteries in Electric Vehicles. , 2020, , .		6
68	Automatic Current Balancing Multi-Phase Reconfigurable LLC Converter with Wide Voltage Gain Range for On-Board Battery Charger. , 2021, , .		6
69	Panel-to-Substring PWM Differential Power Processing Converter and Its Maximum Power Point Tracking Technique for Solar Roof of Plug-In Electric Vehicles. IEEE Access, 2022, 10, 42883-42896.	4.2	6
70	Charge equalizer using a Cockcroft-Walton voltage multiplier for series-connected supercapacitors. , 2009, , .		5
71	Active device-less voltage equalization charger using capacitors, diodes, and an AC power source. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2012, 181, 39-48.	0.4	5
72	PWM switched capacitor voltage divider with high step-down ratio. , 2013, , .		5

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73	Series-Parallel Reconfiguration Technique with Voltage Equalization Capability for Electric Double-Layer Capacitor Modules. <i>Energies</i> , 2019, 12, 2741.	3.1	5
74	Cascaded switched capacitor converters with selectable intermediate taps for supercapacitor discharger. , 2009, , .		4
75	Electric double-layer capacitor module with series-parallel reconfigurable cell voltage equalizers. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2012, 181, 38-50.	0.4	4
76	Two-switch voltage equalizer using series-resonant inverter and voltage multiplier for partially-shaded series-connected photovoltaic modules. , 2013, , .		4
77	Single-switch single-magnetic PWM converter integrating voltage equalizer for series-connected photovoltaic modules under partial shading. , 2014, , .		4
78	Double-Switch Series-Resonant Cell-Voltage Equalizer Using a Voltage Multiplier for Series-Connected Energy Storage Cells. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2014, 189, 41-51.	0.4	4
79	PWM converter integrating switched capacitor voltage equalizer for photovoltaic modules under partial shading. , 2015, , .		4
80	Micro-inverter based on quasi-Z-source inverter integrating switchless voltage equalizer for photovoltaic panels under partial shading. , 2017, , .		4
81	Family of transformerless pulse-width modulation converters integrating voltage equalisers for PV panels and energy storage modules. <i>IET Power Electronics</i> , 2019, 12, 1487-1498.	2.1	4
82	Prompt resolution of hypoglycemia by hepatic transarterial embolization for malignant insulinoma with multiple liver metastases. <i>Acta Medica Okayama</i> , 2014, 68, 303-6.	0.2	4
83	Proton Conductivity of the Reinforced Perfluorinated Membrane as a Function of Temperature and Humidity. <i>Electrochemistry</i> , 2007, 75, 197-200.	1.4	3
84	Cell voltage equalizer using series resonant inverter and voltage multiplier for series-connected supercapacitors. , 2012, , .		3
85	Discharger using cascaded switched capacitor converters and selectable intermediate taps for electric double-layer capacitors. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq1 1 0.784814 rgBT /Overl</i>		3
86	Single-switch PWM converter integrating voltage equalizer for photovoltaic modules under partial shading. , 2014, , .		3
87	Modular equalization architecture using inter-module and switchless intra-module equalizer for energy storage system. , 2015, , .		3
88	Switched capacitor-based PWM converter integrating string converter and voltage equalizer for photovoltaic strings under partial shading. , 2017, , .		3
89	Modular Differential Power Processing Converter with Inherent Over-Current Protection Capability for Photovoltaic Systems. , 2021, , .		3
90	Analysis and Theoretical Comparison of 1-to-1.5 Resonant Switched Capacitor Converters for High-Voltage EV Batteries. , 2022, , .		3

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91	Reactant Recirculation Technique Utilizing Pressure Swing for Proton Exchange Membrane Fuel Cell System. , 2010, , .		2
92	Single-switch cell voltage equalizer based on multi-stacked SEPICs for series-connected energy storage cells. , 2011, , .		2
93	Double-switch single-inductor resonant cell equalizer using voltage multiplier for series-connected supercapacitors. , 2012, , .		2
94	Multi-port converter integrating boost and switched capacitor converters for single-cell battery power system in small satellite. , 2013, , .		2
95	Two-switch voltage equalizer based on half-bridge converter with multi-stacked current doublers for series-connected batteries. , 2014, , .		2
96	PWM- and PFM-controlled switched capacitor converter-based multiport converter integrating voltage equalizer for photovoltaic systems. , 2017, , .		2
97	Single-switch voltage equalizer based on forward-flyback resonant voltage multiplier for partially-shaded series-connected photovoltaic modules. , 2017, , .		2
98	Transformer-less cell voltage equalizer using switched capacitor voltage divider and series-resonant voltage multiplier for series-connected electric double-layer capacitors. , 2017, , .		2
99	DPP Converter Using LLC Resonant Voltage Multiplier with a Voltage Divider for Curved Solar Roof of PREVs. , 2018, , .		2
100	Modularized Equalization Architecture Based on Switched Capacitor Converter to Virtually Unify Mismatched Photovoltaic Panel Characteristics. , 2018, , .		2
101	Dual MPPT Control and Field Testing for Switched Capacitor-Based Cell-Level Power Balancing Utilizing Diffusion Capacitance of Photovoltaic Cells. , 2018, , .		2
102	Multi-Stacked Superbuck Converter-Based Single-Switch Charger Integrating Cell Voltage Equalizer for Series-Connected Energy Storage Cells. Energies, 2022, 15, 3619.	3.1	2
103	Energy storage system based on supercapacitors with an unregulated dc-dc converter and selective intermediate taps. , 2008, , .		1
104	Single-switch equalization charger integrating SEPIC and equalizer using series-resonant voltage multiplier for series-connected energy storage cells/modules. , 2013, , .		1
105	Highly-reliable double-switch cell equalizer using parallel-resonant inverter and voltage multiplier for series-connected supercapacitors/lithium-ion cells. , 2013, , .		1
106	Loss reduction and field testing for switched capacitor-based cell-level power balancing utilizing diffusion capacitance of photovoltaic cells. , 2017, , .		1
107	Single-Switch Differential Power Processing PWM Converter to Enhance Energy Yield of Photovoltaic Panels under Partial Shading. , 0, , .		1
108	Loss Analysis and Field Testing Under Various Partial Shading Conditions for Switched Capacitor-Based Cell-Level Power Balancing Utilizing Diffusion Capacitance of Photovoltaic Cells. , 2018, , .		1

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109	Series-Parallel Reconfigurable Electric Double-Layer Capacitor Module with Cell Equalization Capability, High Energy Utilization Ratio, and Good Modularity. <i>Energies</i> , 2021, 14, 3689.	3.1	1
110	Modular Differential Power Processing Architecture Utilizing Isolated Bus to Virtually Unify Photovoltaic Panel Characteristics in Large-Scale Systems. , 2021, , .		1
111	Highly Extendable Interleaved High Step-Up Boost Converter with Automatic Current Balancing and Reduced Semiconductor Voltage Stresses for Renewable Energy Systems. , 2020, , .		1
112	Multi-Port Converter Integrating Bidirectional Converters and Induction Heating Inverter for Electric Vehicles. , 2020, , .		1
113	Multiport converter integrating automatic current balancing interleaved PWM converter and DAB converter with improved transformer utilization for electric vehicles. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2022, 215, .	0.4	1
114	Derivation of pumpless reactant recirculation system based on analogy between fluid flow and electrical circuit for proton exchange membrane fuel cell. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2014, 9, 360-369.	1.4	0
115	Development and On-Orbit Demonstration of Lithium-Ion Capacitor-Based Power System for Small Spacecraft. , 0, , .		0
116	Modular Equalization System Using Phase-Shift Switched Capacitor Converter and Tapped-Inductor-Based Resonant Voltage Multiplier for Energy Storage Systems. , 2018, , .		0
117	Multi-Port Converter Integrating Automatic Current Balancing Interleaved PWM Converter and Dual Active Bridge Converter with Improved Transformer Utilization. , 2020, , .		0
118	Integrated Converter Utilizing Tapped-Inductor with Arbitrary Voltage Step-Up Ratio to Enhance Energy Yield for Curved Solar Roofs of PHEVs. , 2020, , .		0
119	PWM Step-Up Converter Integrating Differential Power Processing Converter to Enhance Energy Yield of Partially-Shaded Photovoltaic Panels. , 2020, , .		0
120	Experimental Verification of Dual Active Bridge Converter to Integrate AC Heating Inverter for Lithium-Ion Batteries in Electric Vehicles. <i>IEEJ Transactions on Industry Applications</i> , 2021, 141, 453-460.	0.2	0
121	Energy Yield Enhancement by Switched Capacitor Converter-Based Differential Power Processing Converter Utilizing Diffusion Capacitance of Curved Photovoltaic Panels. <i>IEEJ Transactions on Industry Applications</i> , 2021, 141, 835-843.	0.2	0
122	Development of Transformer-Less PWM Converter Integrating Cell Voltage Equalizer for Series-Connected Energy Storage Cells. <i>IEEJ Transactions on Industry Applications</i> , 2016, 136, 1027-1028.	0.2	0
123	PWM Converter Integrating Voltage Equalizer for Photovoltaic Panels under Partial Shading. <i>IEEJ Transactions on Industry Applications</i> , 2017, 137, 274-281.	0.2	0
124	Modular Equalization System Integrating Tapped-Inductor-Based Series-Resonant Voltage Multiplier and Phase-Shift Switched Capacitor Converter for Electric Double-Layer Capacitors. <i>IEEJ Transactions on Industry Applications</i> , 2019, 139, 433-441.	0.2	0
125	Multiport Converter Integrating Automatic Current Balancing Interleaved PWM Converter and DAB Converter with Improved Transformer Utilization for Electric Vehicles. <i>IEEJ Transactions on Industry Applications</i> , 2021, 141, 903-911.	0.2	0
126	Automatic Current Balancing Three-Phase LLC Symmetric Resonant Converter Using Flying Capacitors. <i>IEEJ Transactions on Industry Applications</i> , 2020, 140, 949-957.	0.2	0

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127	Electrical Diagnosis Technique Using Differential Power Processing Converters for Photovoltaic Panels. , 2020, , .		0
128	Control Algorithm for Differential Power Processing Resonant Converter Under Partial Shading and Short-Circuit Fault in Photovoltaic Systems. , 2021, , .		0
129	Highly Extendable Modular Voltage Equalizer Integrating Cell and Module Voltage Equalizers for Series-Connected Electric Double-Layer Capacitors. , 2021, , .		0