

Masatoshi Uno

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Multiport converter integrating automatic current balancing interleaved PWM converter and DAB converter with improved transformer utilization for electric vehicles. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2022, 215, .	0.4	1
3	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
4	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
5	Analysis and Theoretical Comparison of 1-to-1.5 Resonant Switched Capacitor Converters for High-Voltage EV Batteries. , 2022, , .		3
6	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
7	Modular Differential Power Processing Converter with Inherent Over-Current Protection Capability for Photovoltaic Systems. , 2021, , .		3
8	Series-Parallel Reconfigurable Electric Double-Layer Capacitor Module with Cell Equalization Capability, High Energy Utilization Ratio, and Good Modularity. Energies, 2021, 14, 3689.	3.1	1
9	Experimental Verification of Dual Active Bridge Converter to Integrate AC Heating Inverter for Lithium-Ion Batteries in Electric Vehicles. IEJ Transactions on Industry Applications, 2021, 141, 453-460.	0.2	0
10	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
11	Energy Yield Enhancement by Switched Capacitor Converter-Based Differential Power Processing Converter Utilizing Diffusion Capacitance of Curved Photovoltaic Panels. IEJ Transactions on Industry Applications, 2021, 141, 835-843.	0.2	0
12	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
13	Multiport Converter Integrating Automatic Current Balancing Interleaved PWM Converter and DAB Converter with Improved Transformer Utilization for Electric Vehicles. IEJ Transactions on Industry Applications, 2021, 141, 903-911.	0.2	0
14	Modular Differential Power Processing Architecture Utilizing Isolated Bus to Virtually Unify Photovoltaic Panel Characteristics in Large-Scale Systems. , 2021, , .		1
15	Automatic Current Balancing Multi-Phase Recofigurable LLC Converter with Wide Voltage Gain Range for On-Board Battery Charger. , 2021, , .		6
16	Control Algorithm for Differential Power Processing Resonant Converter Under Partial Shading and Short-Circuit Fault in Photovoltaic Systems. , 2021, , .		0
17	Highly Extendable Modular Voltage Equalizer Integrating Cell and Module Voltage Equalizers for Series-Connected Electric Double-Layer Capacitors. , 2021, , .		0
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Multi-Port Converter Integrating Automatic Current Balancing Interleaved PWM Converter and Dual Active Bridge Converter with Improved Transformer Utilization. , 2020, , .		0
23	Integrated Converter Utilizing Tapped-Inductor with Arbitrary Voltage Step-Up Ratio to Enhance Energy Yield for Curved Solar Roofs of PHEVs. , 2020, , .		0
24	PWM Step-Up Converter Integrating Differential Power Processing Converter to Enhance Energy Yield of Partially-Shaded Photovoltaic Panels. , 2020, , .		0
25	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
26	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
27	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
28	Automatic Current Balancing Three-Phase LLC Symmetric Resonant Converter Using Flying Capacitors. IEEJ Transactions on Industry Applications, 2020, 140, 949-957.	0.2	0
29	Highly Extendable Interleaved High Step-Up Boost Converter with Automatic Current Balancing and Reduced Semiconductor Voltage Stresses for Renewable Energy Systems. , 2020, , .		1
30	Electrical Diagnosis Technique Using Differential Power Processing Converters for Photovoltaic Panels. , 2020, , .		0
31	Multi-Port Converter Integrating Bidirectional Converters and Induction Heating Inverter for Electric Vehicles. , 2020, , .		1
32	Dual Active Bridge Converter with AC Heating Capability for Lithium-ion Batteries in Electric Vehicles. , 2020, , .		6
33	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
34	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
35	Series-Parallel Reconfiguration Technique with Voltage Equalization Capability for Electric Double-Layer Capacitor Modules. Energies, 2019, 12, 2741.	3.1	5
36	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

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37	Review, Comparison, and Proposal for PWM Converters Integrating Differential Power Processing Converter for Small Exploration Rovers. <i>Energies</i> , 2019, 12, 1919.	3.1	6
38	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
39	Module-Integrated Converter Based on Cascaded Quasi-Z-Source Inverter With Differential Power Processing Capability for Photovoltaic Panels Under Partial Shading. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 11553-11565.	7.9	36
40	Cell Voltage Equalizer Using a Selective Voltage Multiplier with a Reduced Selection Switch Count for Series-Connected Energy Storage Cells. <i>Electronics (Switzerland)</i> , 2019, 8, 1303.	3.1	13
41	LLC Resonant Voltage Multiplier-Based Differential Power Processing Converter Using Voltage Divider with Reduced Voltage Stress for Series-Connected Photovoltaic Panels under Partial Shading. <i>Electronics (Switzerland)</i> , 2019, 8, 1193.	3.1	7
42	Variable switching frequency modulation scheme for PWM converter integrating series-resonant voltage multiplier-based voltage equalizer for photovoltaic strings under partial shading. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2019, 14, 467-474.	1.4	13
43	Modularized Equalization Architecture With Voltage Multiplier-Based Cell Equalizer and Switchless Switched Capacitor Converter-Based Module Equalizer for Series-Connected Electric Double-Layer Capacitors. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 6356-6368.	7.9	37
44	PWM Switched Capacitor Converter With Switched-Capacitor-Inductor Cell for Adjustable High Step-Down Voltage Conversion. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 425-437.	7.9	56
45	String-to-Battery Voltage Equalizer Based on a Half-Bridge Converter With Multistacked Current Doublers for Series-Connected Batteries. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 1286-1298.	7.9	51
46	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
47	Partially Isolated Single-Magnetic Multiport Converter Based on Integration of Series-Resonant Converter and Bidirectional PWM Converter. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 9575-9587.	7.9	41
48	Single-Switch Single-Magnetic PWM Converter Integrating Voltage Equalizer for Partially Shaded Photovoltaic Modules in Standalone Applications. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 1259-1270.	7.9	48
49	DPP Converter Using LLC Resonant Voltage Multiplier with a Voltage Divider for Curved Solar Roof of PREVs. , 2018, , .		2
50	Direct Cell-to-Cell Voltage Equalizer Using Capacitively-Isolated Parallel-Resonant Converter for Series-Connected Energy Storage Cells. , 2018, , .		6
51	Modular Equalization System Using Phase-Shift Switched Capacitor Converter and Tapped-Inductor-Based Resonant Voltage Multiplier for Energy Storage Systems. , 2018, , .		0
52	Modularized Equalization Architecture Based on Switched Capacitor Converter to Virtually Unify Mismatched Photovoltaic Panel Characteristics. , 2018, , .		2
53	Dual MPPT Control and Field Testing for Switched Capacitor-Based Cell-Level Power Balancing Utilizing Diffusion Capacitance of Photovoltaic Cells. , 2018, , .		2
54	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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55	Bidirectional Interleaved PWM Converter with High Voltage-Conversion Ratio and Automatic Current Balancing Capability for Single-Cell Battery Power System in Small Scientific Satellites. <i>Energies</i> , 2018, 11, 2702.	3.1	13
56	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. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 8500-8513.	7.9	57
57	Transformer-less bidirectional PWM converter integrating cell voltage equalizer using voltage multiplier for series connected energy storage cells. , 2017, , .		6
58	Multi-port converter integrating two PWM converters for multi-power-source systems. , 2017, , .		11
59	PWM- and PFM-controlled switched capacitor converter-based multiport converter integrating voltage equalizer for photovoltaic systems. , 2017, , .		2
60	Micro-inverter based on quasi-Z-source inverter integrating switchless voltage equalizer for photovoltaic panels under partial shading. , 2017, , .		4
61	Current Sensorless Equalization Strategy for a Single-Switch Voltage Equalizer Using Multistacked Buck-Boost Converters for Photovoltaic Modules Under Partial Shading. <i>IEEE Transactions on Industry Applications</i> , 2017, 53, 420-429.	4.9	58
62	Non-isolated multi-port converter integrating PWM and phase-shift converters. , 2017, , .		6
63	Switched capacitor-based PWM converter integrating string converter and voltage equalizer for photovoltaic strings under partial shading. , 2017, , .		3
64	Loss reduction and field testing for switched capacitor-based cell-level power balancing utilizing diffusion capacitance of photovoltaic cells. , 2017, , .		1
65	Single-switch voltage equalizer based on forward-flyback resonant voltage multiplier for partially-shaded series-connected photovoltaic modules. , 2017, , .		2
66	Transformer-less cell voltage equalizer using switched capacitor voltage divider and series-resonant voltage multiplier for series-connected electric double-layer capacitors. , 2017, , .		2
67	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
68	Cycle Life Evaluation Based on Accelerated Aging Testing for Lithium-Ion Capacitors as Alternative to Rechargeable Batteries. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 1607-1617.	7.9	66
69	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
70	Modular equalization architecture using inter-module and switchless intra-module equalizer for energy storage system. , 2015, , .		3
71	Two-Switch Voltage Equalizer Using a Series-Resonant Voltage Multiplier Operating in Frequency-Multiplied Discontinuous Conduction Mode for Series-Connected Supercapacitors. <i>IEICE Transactions on Communications</i> , 2015, E98.B, 842-853.	0.7	6
72	PWM converter integrating switched capacitor voltage equalizer for photovoltaic modules under partial shading. , 2015, , .		4

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73	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
74	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
75	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
76	Single-switch single-magnetic PWM converter integrating voltage equalizer for series-connected photovoltaic modules under partial shading. , 2014, , .		4
77	Derivation of pumpless reactant recirculation system based on analogy between fluid flow and electrical circuit for proton exchange membrane fuel cell. IEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 360-369.	1.4	0
78	Double-Switch Series-Resonant Cell-Voltage Equalizer Using a Voltage Multiplier for Series-Connected Energy Storage Cells. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2014, 189, 41-51.	0.4	4
79	Single-switch PWM converter integrating voltage equalizer for photovoltaic modules under partial shading. , 2014, , .		3
80	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
81	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
82	Two-switch voltage equalizer based on half-bridge converter with multi-stacked current doublers for series-connected batteries. , 2014, , .		2
83	Prompt resolution of hypoglycemia by hepatic transarterial embolization for malignant insulinoma with multiple liver metastases. Acta Medica Okayama, 2014, 68, 303-6.	0.2	4
84	Discharger using cascaded switched capacitor converters and selectable intermediate taps for electric double-layer capacitors. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		1
85	Single-switch equalization charger integrating SEPIC and equalizer using series-resonant voltage multiplier for series-connected energy storage cells/modules. , 2013, , .		1
86	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
87	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 (C	0.4	14
88	Spacecraft Electrical Power System using Lithium-Ion Capacitors. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 175-188.	4.7	33
89	Multi-port converter integrating boost and switched capacitor converters for single-cell battery power system in small satellite. , 2013, , .		2
90	Highly-reliable double-switch cell equalizer using parallel-resonant inverter and voltage multiplier for series-connected supercapacitors/lithium-ion cells. , 2013, , .		1

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91	PWM switched capacitor voltage divider with high step-down ratio. , 2013, , .		5
92	Two-switch voltage equalizer using series-resonant inverter and voltage multiplier for partially-shaded series-connected photovoltaic modules. , 2013, , .		4
93	Single-switch cell voltage equalizer using voltage multipliers for series-connected supercapacitors. , 2012, , .		11
94	Accelerated Chargeâ€“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
95	Cell voltage equalizer using series resonant inverter and voltage multiplier for series-connected supercapacitors. , 2012, , .		3
96	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
97	Double-switch single-inductor resonant cell equalizer using voltage multiplier for series-connected supercapacitors. , 2012, , .		2
98	Electric doubleâ€“layer capacitor module with seriesâ€“parallel reconfigurable cell voltage equalizers. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2012, 181, 38-50.	0.4	4
99	Active deviceâ€“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
100	Unregulated interface converter based on cascaded switched capacitor converters for supercapacitors in alternative battery applications. , 2011, , .		10
101	Single-switch constant-power equalization charger based on multi-stacked buck-boost converters for series-connected supercapacitors in satellite power systems. , 2011, , .		6
102	Single-switch cell voltage equalizer based on multi-stacked SEPICs for series-connected energy storage cells. , 2011, , .		2
103	Accelerated ageing testing and cycle life prediction of supercapacitors for alternative battery applications. , 2011, , .		19
104	Development and on-orbit operation of lithium-ion pouch battery for small scientific satellite â€œREIMEIâ€œ. Journal of Power Sources, 2011, 196, 8755-8763.	7.8	41
105	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
106	Influence of High-Frequency Chargeâ€“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
107	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
108	Small satellite REIMEI for auroral observations. Acta Astronautica, 2011, 69, 499-513.	3.2	19

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109	Reactant recirculation system utilizing pressure swing for proton exchange membrane fuel cell. Journal of Power Sources, 2011, 196, 2558-2566.	7.8	28
110	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
111	Electric Double-Layer Capacitor Module with Series-Parallel Reconfigurable Cell Voltage Equalizers. IEEJ Transactions on Industry Applications, 2011, 131, 729-738.	0.2	8
112	Equalization chargers using capacitor-diode networks for series-connected energy storage cells. , 2010, , .		6
113	Reactant Recirculation Technique Utilizing Pressure Swing for Proton Exchange Membrane Fuel Cell System. , 2010, , .		2
114	Series-parallel reconfiguration technique for supercapacitor energy storage systems. , 2009, , .		11
115	Development and demonstration flight of a fuel cell system for high-altitude balloons. Journal of Power Sources, 2009, 193, 788-796.	7.8	14
116	Charge equalizer using a Cockcroft-Walton voltage multiplier for series-connected supercapacitors. , 2009, , .		5
117	Interactive charging performance of a series connected battery with shunting equalizers. , 2009, , .		16
118	Cascaded switched capacitor converters with selectable intermediate taps for supercapacitor discharger. , 2009, , .		4
119	Cycle life evaluation of 3Ah LiMn ₂ O ₄ -based lithium-ion secondary cells for low-earth-orbit satellites. Journal of Power Sources, 2008, 185, 1454-1464.	7.8	13
120	Storage of a lithium-ion secondary battery under micro-gravity conditions. Journal of Power Sources, 2008, 181, 149-154.	7.8	9
121	Cycle life evaluation of 3Ah LiMn ₂ O ₄ -based lithium-ion secondary cells for low-earth-orbit satellites. Journal of Power Sources, 2008, 185, 1444-1453.	7.8	27
122	Energy storage system based on supercapacitors with an unregulated dc-dc converter and selective intermediate taps. , 2008, , .		1
123	Supercapacitor-based energy storage system with voltage equalizers and selective taps. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	44
124	Equalization technique utilizing series-parallel connected supercapacitors for energy storage system. , 2008, , .		44
125	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
126	Proton Conductivity of the Reinforced Perfluorinated Membrane as a Function of Temperature and Humidity. Electrochemistry, 2007, 75, 197-200.	1.4	3

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127	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
128	Development and On-Orbit Demonstration of Lithium-Ion Capacitor-Based Power System for Small Spacecraft. , 0, , .		0
129	Single-Switch Differential Power Processing PWM Converter to Enhance Energy Yield of Photovoltaic Panels under Partial Shading. , 0, , .		1