Kei Eguchi

List of Publications by Year
in descending order

137	444	1040056 9	1125743 13
papers	citations	h-index	g-index

140	140	140	156
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermoelectric energy harvesting using a single inductor DC/DC converter employing a negative Dickson multiplier. Energy Reports, 2022, 8, 691-698.	5.1	3
2	A New Approach for the Incorporation of the End-Userâ€™s Smart Powerâ€“Electronic Interface in Voltage Support Application. Electronics (Switzerland), 2022, 11, 765.	3.1	0
3	Intelligent Design of Multi-Machine Power System Stabilizers (PSSs) Using Improved Particle Swarm Optimization. Electronics (Switzerland), 2022, 11, 946.	3.1	16
4	Optimal Management of Reactive Power Considering Voltage and Location of Control Devices Using Artificial Bee Algorithm. Applied Sciences (Switzerland), 2022, 12, 27.	2.5	19
5	Distributed Generation Management in Smart Grid with the Participation of Electric Vehicles with Respect to the Vehicle Ownersâ€™ Opinion by Using the Imperialist Competitive Algorithm. Sustainability, 2022, 14, 4770.	3.2	8
6	Experimental study on discharging current to reduce voltage stress during underwater shock wave generation. Energy Reports, 2022, 8, 113-120.	5.1	1
7	Optimal Designing of Fuzzy-PID Controller in the Load-Frequency Control Loop of Hydro-Thermal Power System Connected to Wind Farm by HVDC Lines. IEEE Access, 2022, 10, 63812-63822.	4.2	21
8	An Inductorâ€Less Stepâ€Up Multiâ€Input Singleâ€Output AC / DC Converter for Vibration Energy Harvesting. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 170-172.	1.4	0
9	Inductorâ€Less Voltage Equalizer with Crossâ€Coupled Structure. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 164-166.	1.4	0
10	Comparative Study of Switched Capacitor Converter Topologies for Wearable Devices. Journal of Physics: Conference Series, 2021, 1729, 012001.	0.4	0
11	Optimal Location of FACTS Devices in Order to Simultaneously Improving Transmission Losses and Stability Margin Using Artificial Bee Colony Algorithm. IEEE Access, 2021, 9, 125920-125929.	4.2	18
12	Analysis of a High Step-Down DC/DC Converter Topology with a Single Inductor. International Journal of Intelligent Engineering and Systems, 2021, 14, 552-565.	0.6	5
13	A Stacked Cockcroft-Walton High Voltage Multiplier for 220 V at 50 Hz Inputs. , 2021, , .		1
14	An LED Driver Connecting a Nested-Type SC Converter and an SI Buck-Boost Converter in Parallel. , 2021, , .		0
15	Unit Commitment for Power Generation Systems Based on Prices in Smart Grid Environment Considering Uncertainty. Sustainability, 2021, 13, 10219.	3.2	6
16	Optimal energy management of distributed generation in micro-grids using artificial bee colony algorithm. Mathematical Biosciences and Engineering, 2021, 18, 7402-7418.	1.9	4
17	A Single Inductor LED Driver Combined with a Cross-Connected Fibonacci-Type Converter and a Buck-Boost Converter. Journal of Physics: Conference Series, 2021, 2022, 012002.	0.4	0
18	A High-Speed Bipolar Hybrid Cockcroftâ€“Walton/Dickson Multiplier for Shockwave Non-thermal Food Processing. Journal of Physics: Conference Series, 2021, 2022, 012023.	0.4	0

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19	A High Voltage Multiplier Using Stacked Hybrid Cockcroftâ€“ Walton/Dickson Multipliers. Journal of Physics: Conference Series, 2021, 2022, 012019.	0.4	0
20	Performance Improvement of Reluctance Synchronous Motor Using Brain Emotional Learning Based Intelligent Controller. Electronics (Switzerland), 2021, 10, 2595.	3.1	3
21	A new type of switched capacitor converter for energy harvesting system. Energy Reports, 2021, 8, 942-942.	5.1	0
22	A multi-input single-output Dickson-type AC/DC converter for vibration energy harvesting. Energy Reports, 2021, 7, 78-83.	5.1	2
23	Design of a Single Inductor LED Sink Driver Employing a Negative Hybrid Cockcroft-Walton/Dickson Multiplier. , 2021, , .		1
24	Vibration Energy Harvesting Using a MISO Converter Employing Hybrid Cockcroft-Walton/Dickson Multipliers. , 2021, , .		1
25	Fundamental concepts of power electronic circuits. , 2020, , 421-526.		2
26	Modification of Cockcroftâ€“Walton-Based High-Voltage Multipliers with 220 V and 50 Hz Input for Non-Thermal Food Processing Apparatus. Sustainability, 2020, 12, 6330.	3.2	6
27	Reduction of Inrush Current in a Shockwave Non-Thermal Food Processing System Using an Exponential Clock Pulse Generator. Sustainability, 2020, 12, 6095.	3.2	10
28	An Inductor-Less AC/DC Converter Using a Bipolar Cockcroft-Walton Multilier and a Cross-Coupled Charge Pump. , 2020, , .		0
29	Design of a dual-input cross-connected charge pump utilizing scavenged energy. Energy Reports, 2020, 6, 228-234.	5.1	1
30	Analysis of parallel connected Fibonacci switched capacitor converter. Energy Reports, 2020, 6, 362-367.	5.1	6
31	A step-down nesting-type acâ€“ac converter combined with voltage equalizers and switched-capacitor simple converters. Energy Reports, 2020, 6, 173-178.	5.1	5
32	An inductor-less universal switched-capacitor converter realizing dc/dc, ac/dc, dc/ac, and ac/ac conversion. Energy Reports, 2020, 6, 125-129.	5.1	3
33	Analysis of an LED lighting circuit using a hybrid buckâ€“boost converter with high gain. Energy Reports, 2020, 6, 250-256.	5.1	24
34	An inductor-less step-up/step-down multilevel inverter with a single input source. Energy Reports, 2020, 6, 146-152.	5.1	14
35	A direct high step-down DC/DC converter using cascade ring-type converters. Energy Reports, 2020, 6, 119-124.	5.1	3
36	Design of an inductor-less step-up ac/dc converter for 0.3ÂV@1ÂMHz vibration energy harvesting. Energy Reports, 2020, 6, 159-165.	5.1	4

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37	Synthesis and analysis of a cross-connected Fibonacci dc/dc converter with high voltage gain. Energy Reports, 2020, 6, 130-136.	5.1	1
38	The development of a step-down switched-capacitor inverter without flying capacitors and full-bridge circuits. Energy Reports, 2020, 6, 257-262.	5.1	2
39	An analytical approach for parallel switched capacitor converter. Energy Reports, 2020, 6, 338-342.	5.1	4
40	An Analytical Approach for Design of a Cross-Connected Fibonacci Switched Capacitor Converter. Energies, 2020, 13, 431.	3.1	5
41	Clock Generator with Exponentially Increasing Frequency Using Switched-Capacitor Circuit. International Journal of Electrical and Electronic Engineering and Telecommunications, 2020, , 49-55.	3.6	1
42	Alternative of high voltage multipliers utilizing Cockcroftâ€“Walton multiplier blocks for 220 V and 50 Hz input. Energy Reports, 2020, 6, 909-913.	5.1	5
43	Implementation of inductor-less 13-level inverter topology with reduced number of required component. Energy Reports, 2020, 6, 38-42.	5.1	1
44	Design of a multi-input single-output step-up ac/dc converter with bipolar structure. Energy Reports, 2020, 6, 87-91.	5.1	0
45	A hybrid LED sink driver using a nesting-type switched-inductor/switched-capacitor buck-boost converter. Energy Reports, 2020, 6, 82-86.	5.1	3
46	Design and analysis of an inductor-less cross-coupled voltage equalizer. Energy Reports, 2020, 6, 1151-1156.	5.1	3
47	Design of an LED Sink Driver Using a Switched-Inductor and Switched-Capacitor Buck-Boost Converter with High Voltage Gains. , 2020, , .		5
48	Synthesis and Analysis of a Dual-Input Cross-Connected Charge Pump with Gain Selecting Functions. , 2020, , .		0
49	A Hybrid-Type High Step-Down DC/DC Converter Using a Step-Down Cross-Connected Fibonacci Converter. , 2020, , .		1
50	An Analysis Method for Design of a Cross-connected Fibonacci Switched Capacitor Converter. , 2020, , .		0
51	A New Analysis Way of Three-Phase Switched Capacitor Converter. Journal of Circuits, Systems and Computers, 2019, 28, 1950138.	1.5	3
52	An Efficient Non-Thermal Food Processing System by Underwater Shockwaves Using Two Pairs of Restoration Electrodes. , 2019, , .		2
53	The Development of K^{N} Voltage Gain Switched-Capacitor DC-DC Converter Based on Parallel Fibonacci-Type Converter. , 2019, , .		1
54	The Development of an LED Lighting Circuit Using High Gain Buck-Boost Converters. International Journal of Electrical and Electronic Engineering and Telecommunications, 2019, , 262-267.	3.6	5

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55	A Small DC-AC Inverter by Using Cross-Connected Charge Pumps. International Journal of Electrical and Electronic Engineering and Telecommunications, 2019, , 247-253.	3.6	4
56	Dynamics and Control of DC-DC Converters. Synthesis Lectures on Power Electronics, 2018, 6, 1-241.	1.7	20
57	Design of a Fuzzy-Based Light Absorbance Measurement Device for Chemical Education. , 2018, , .		0
58	Modeling Uncertainties in DC-DC Converters with MATLAB{} and PLECS. Synthesis Lectures on Electrical Engineering, 2018, 3, 1-292.	0.0	3
59	Design of a cross-connected charge pump for energy harvesting systems. IOP Conference Series: Earth and Environmental Science, 2018, 136, 012014.	0.3	2
60	Design of an Inductor-less Direct AC-AC Converter Realizing 1/4x and 4x Conversion. Journal of Physics: Conference Series, 2018, 1026, 012012.	0.4	0
61	A High Voltage Gain SC DC-DC Converter Based on Cross-Connected Fibonacci-Type Converter. , 2018, , .		8
62	Performance comparison of bit-level median filtering circuits based on binary search algorithm. , 2018, , .		0
63	Comparative analysis on three types of switched-capacitor DC-DC converters. , 2017, , .		3
64	A switched-capacitor AC-AC converter using nested voltage equalizers. , 2017, , .		2
65	Color light sensor device for light absorbance measurement device. , 2017, , .		3
66	Study on Non-Thermal Food Processing Utilizing an Underwater Shockwave. Indian Journal of Science and Technology, 2017, 10, .	0.7	4
67	Parallel-connected type of Fibonacci Sequence Switched Capacitor DC-DC Converter. , 2017, , .		1
68	A multistage AC-AC converter designed by using switched capacitor techniques. International Journal of Advanced and Applied Sciences, 2017, 4, 73-78.	0.4	1
69	The development of a negative single-input/multi-output driver using a Fibonacci-like converter. , 2016, , .		2
70	Design of a measurement device explaining the relationship between the concentration of solution and the light absorbance for chemical education. , 2016, , .		10
71	Performance analysis of a handmade clicker for active learning. , 2016, , .		0
72	Development of a Fibonacci Switched-Capacitor DC-AC Inverter. , 2016, , .		0

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73	The Development of a Low Cost and Portable Light Absorbance Measurment Device for Chemical Education. , 2016, , .		0
74	A Symmetrical Three-Phase AC-AC Converter Designed by Using Switched-Capacitor Techniques. , 2016, , .		0
75	A Negative Single-Input/Multi-Output LED Driver and Its Analysis Method. International Journal of Electrical Energy, 2015, 3, .	0.4	1
76	Design of Fractional Conversion Ratio Switched Capacitor DC-DC Converters by Using Loop-Connected. , 2015, , .		0
77	Development of a Hand-made Clicker using ZigBee Wireless Communications. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 688-689.	0.2	0
78	Research Study of Technical College Students' Perceptions about Contents and Literacy in Technology Education. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 690-697.	0.2	0
79	Design and Analysis of a Generalized Dual Fibonacci Converter Using Improved Charge Reusing Techniques. Advanced Materials Research, 2014, 931-932, 920-924.	0.3	1
80	A Study on Flash Type A/D Converter Using Neuron CMOS Inverter. Advanced Materials Research, 2014, 931-932, 915-919.	0.3	0
81	Design of a Digitally Controlled Inductor-Less Voltage Multiplier for Non-Thermal Food Processing. International Journal of Information and Electronics Engineering, 2014, 4, .	0.2	1
82	A New Control Method to Reduce Parasitic Losses in a Ring-Type DC-DC Converter. Journal of Clean Energy Technologies, 2014, 2, 310-316.	0.1	0
83	Design of fractional conversion ratio SC DC-DC converters. , 2013, , .		4
84	Power saving techniques to improve efficiency of a parallel-connected negative DC-DC converter. , 2013, , .		0
85	A step-up/step-down SC DC-DC converter and its power saving techniques. , 2013, , .		0
86	Design of a Dickson-type adder/subtractor DC-DC converter. Energy Procedia, 2012, 14, 1207-1212.	1.8	0
87	Design of a Step-Up/Step-Down k (=2,3, ...)-Fibonacci DC-DC Converter Designed by Switched-Capacitor Techniques. , 2012, , .		13
88	A hybrid input chargeâ€pump using micropower thermoelectric generators. IEEJ Transactions on Electrical and Electronic Engineering, 2012, 7, 415-422.	1.4	13
89	A Hybrid-Input Negative Ring-type Converter Using Clean Energy Power Supplies. International Journal of Intelligent Engineering and Systems, 2012, 5, 1-10.	0.6	1
90	Synthesis and Analysis of a Switched-Capacitor-Based Battery Equalizer Using Level-Shift Circuits. International Journal of Intelligent Engineering and Systems, 2012, 5, 1-9.	0.6	4

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91	Design of a Hybrid Input Charge-Pump Utilizing Waste Heat and Its Thermal Analysis Method. , 2011, , .		0
92	Implementation of 3D SRAD Algorithm on CUDA. , 2011, , .		4
93	Paralleling Genetic Annealing Algorithm on Grid. , 2011, , .		1
94	Design of a Capacitor-Based MIMO DC-DC Converter and Its Optimal Control Method. , 2011, , .		2
95	Paralleling Euclidean Particle Swarm Optimization in CUDA. , 2011, , .		3
96	Design of a dualâ€input SC DCâ€“DC converter realizing negative outputs. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 424-430.	1.4	0
97	Design of a hybrid input charge-pump using micropower thermoelectric generators. , 2011, , .		0
98	DESIGN OF A DUAL-INPUT SERIAL DCâ€“DC CONVERTER REALIZING INDIVIDUAL SWITCHING MODES. Journal of Circuits, Systems and Computers, 2011, 20, 1075-1094.	1.5	2
99	Investigation of Perception in Electric Field based on Scholastic Tests of National Institute for Educational Policy Research. IEEJ Transactions on Fundamentals and Materials, 2011, 131, 615-621.	0.2	0
100	2 x /3 x Step-Up Switched-Capacitor (SC) AC-DC Converters for RFID Tags. International Journal of Intelligent Engineering and Systems, 2011, 4, 1-9.	0.6	0
101	A White LED Driver Using a Buck-Boost Converter. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 613-614.	1.4	7
102	Design of a Multiple-Input SC DC-DC Converter Realizing Long Battery Runtime. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 985-988.	0.3	2
103	Development of a Hand-Made Color Comparator for Manufacturing Education in Primary and Secondary Education. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 59-66.	0.2	0
104	Clonal Selection Algorithm with Aging Operators for Protein Structure Prediction on AB Off-Lattice Model. , 2009, , .		5
105	Development of Switched-Capacitor bi-directional DC-AC converter for inductive and capacitive loads. , 2009, , .		9
106	Paralleling Genetic Annealing Algorithm with OpenMP. , 2009, , .		3
107	Euclidean Particle Swarm Optimization. , 2009, , .		16
108	A versatile DC-DC converter designed by using switched-capacitor techniques. , 2009, , .		0

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109	Design of a Step-Down AC-DC Converter for Energy Harvesting System Using Vibration-Based Energy. , 2009, , .		0
110	Synthesis and analysis of a multiple-input parallel SC DC-DC converter. , 2009, , .		1
111	A Multiple-Input SC DC-DC Converter with Battery Charge Process. , 2009, , .		1
112	Application of BPNN in Intrusion Decision for IIDDRS. , 2008, , .		0
113	Design of an Educational Support System for Self-Learning. , 2008, , .		3
114	Development of an Autonomous Mobile Robot with an Arm as a Teaching Material. , 2008, , .		0
115	Optimal Design of a Parallel-Connected SC DC-DC Converter with Fluctuation of On-Resistances. , 2008, , .		3
116	Analysis of A 2x/1.5x/1x Moded Mode DC-DC Converter Designed by Using Switched- Capacitor Techniques. International Journal of Intelligent Engineering and Systems, 2008, 1, 1-8.	0.6	0
117	Improvement of Intrusion Decision for I2D2RS with BPNN. International Journal of Intelligent Engineering and Systems, 2008, 1, 32-39.	0.6	0
118	Virtual Experimental Equipment of I2D2RS with Xen. , 2007, , .		0
119	A Fuzzy-Based Educational System to Assist Self-Learning for Pupils. , 2007, , .		4
120	Application of Neuro-Fuzzy Approach for I2D2RS. , 2007, , .		2
121	Design of a Charge-Pump Type AC-DC Converter for RE-ID Tags. , 2006, , .		0
122	Switched-capacitor (SC) DC-DC converter with fine tune control outputs. , 2006, , .		3
123	A Novel Intelligent Intrusion Detection, Decision, Response System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 1630-1637.	0.3	10
124	Design of a Charge-Average Type SC DC-DC Converter for Cellular Phones. IEEJ Transactions on Electronics, Information and Systems, 2005, 125, 37-42.	0.2	4
125	Design of a 3/2 Step-Up SC DC-DC Converter for Diode-Lamps. IEEJ Transactions on Electronics, Information and Systems, 2005, 125, 528-529.	0.2	3
126	Design of a Step-Down Switched-Capacitor DC-DC Converter with Charge-Average Processes. IEEJ Transactions on Electronics, Information and Systems, 2005, 125, 1408-1415.	0.2	0

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127	Design of a Switched-Capacitor DC-DC Converter with Various Outputs. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 1046-1047.	0.2	2
128	Design of a Dickson-Type Power Converter with Bootstrapped Gate Transfer Switches. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 1416-1421.	0.2	2
129	Design of a Ring-Type SC DC-DC Converter with Bootstrapped Gate Transfer Switches. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1700-1705.	0.2	4
130	A Ring-Type SC DC-DC Converter with Series-Connected Capacitors.. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 623-624.	0.2	0
131	Design of a Random-Switching Controller Using Chaos Generators. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1964-1969.	0.2	0
132	A 1-Dimensional Chaotic IC Designed by SI Techniques. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1663-1664.	0.2	0
133	Design of a cell-network type SC DC-DC converter for mobile equipments. IEEJ Transactions on Electronics, Information and Systems, 2002, 122, 578-584.	0.2	2
134	Design of a fuzzy based circular pattern recognition circuit using current-mode techniques. IEEJ Transactions on Electronics, Information and Systems, 2000, 120, 2039-2045.	0.2	0
135	Design and Analysis of a Fibonacci Switched-Capacitor DC-AC Inverter. Applied Mechanics and Materials, 0, 666, 82-86.	0.2	9
136	A Symmetrical Digital Selecting Type DC-DC Converter with Power Saving Techniques. Applied Mechanics and Materials, 0, 666, 77-81.	0.2	1
137	Parallel-Connected High Voltage Multiplier with Symmetrical Structure. Applied Mechanics and Materials, 0, 619, 173-177.	0.2	4