

# Alon Kuperman

## List of Publications by Year in descending order

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177  
papers

3,578  
citations

185998

28  
h-index

168136

53  
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177  
all docs

177  
docs citations

177  
times ranked

2793  
citing authors

#	ARTICLE	IF	CITATIONS
1	Batteryâ€“ultracapacitor hybrids for pulsed current loads: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 981-992.	8.2	301
2	Topological Overview of Powertrains for Battery-Powered Vehicles With Range Extenders. IEEE Transactions on Power Electronics, 2011, 26, 868-876.	5.4	215
3	Design of UDEâ€“based controllers from their twoâ€“degreeâ€“ofâ€“freedom nature. International Journal of Robust and Nonlinear Control, 2011, 21, 1994-2008.	2.1	163
4	Proportional-Resonant Current Controllers Design Based on Desired Transient Performance. IEEE Transactions on Power Electronics, 2015, 30, 5341-5345.	5.4	154
5	Design of a Semiactive Battery-Ultracapacitor Hybrid Energy Source. IEEE Transactions on Power Electronics, 2013, 28, 806-815.	5.4	144
6	Battery Charger for Electric Vehicle Traction Battery Switch Station. IEEE Transactions on Industrial Electronics, 2013, 60, 5391-5399.	5.2	139
7	An improved approach to extract the single-diode equivalent circuit parameters of a photovoltaic cell/panel. Renewable and Sustainable Energy Reviews, 2014, 30, 282-289.	8.2	125
8	Robust control of uncertain nonlinear systems with state delays based on an uncertainty and disturbance estimator. International Journal of Robust and Nonlinear Control, 2011, 21, 79-92.	2.1	108
9	Recursive-Least-Squares-Based Real-Time Estimation of Supercapacitor Parameters. IEEE Transactions on Energy Conversion, 2016, 31, 810-812.	3.7	81
10	Analysis of Dual-Carrier Modulator for Bidirectional Noninverting Buckâ€“Boost Converter. IEEE Transactions on Power Electronics, 2015, 30, 840-848.	5.4	73
11	Supercapacitor Sizing Based on Desired Power and Energy Performance. IEEE Transactions on Power Electronics, 2014, 29, 5399-5405.	5.4	63
12	Analytic Modeling of Vehicle Fuel Consumption. Energies, 2013, 6, 117-127.	1.6	62
13	Issues in Modeling Amorphous Silicon Photovoltaic Modules by Single-Diode Equivalent Circuit. IEEE Transactions on Industrial Electronics, 2014, 61, 6785-6793.	5.2	53
14	Low-Frequency DC-Link Ripple Elimination in Power Converters With Reduced Capacitance by Multiresonant Direct Voltage Regulation. IEEE Transactions on Industrial Electronics, 2017, 64, 2015-2023.	5.2	53
15	Disturbance Observer-Based Voltage Regulation of Current-Mode-Boost-Converter-Interfaced Photovoltaic Generator. IEEE Transactions on Industrial Electronics, 2015, 62, 5776-5785.	5.2	50
16	Uncertainty and Disturbance Estimatorâ€“Based Control for Uncertain LTI-SISO Systems With State Delays. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	46
17	Revisited Perturbation Frequency Design Guideline for Direct Fixed-Step Maximum Power Point Tracking Algorithms. IEEE Transactions on Industrial Electronics, 2017, 64, 4601-4609.	5.2	45
18	Design Guidelines for Multiloop Perturbative Maximum Power Point Tracking Algorithms. IEEE Transactions on Power Electronics, 2018, 33, 1284-1293.	5.4	43

#	ARTICLE	IF	CITATIONS
19	Comprehensive dynamic analysis of photovoltaic generator interfacing DC-DC boost power stage. IET Renewable Power Generation, 2015, 9, 306-314.	1.7	41
20	Performance and Limitations of a Constant Power-Fed Supercapacitor. IEEE Transactions on Energy Conversion, 2014, 29, 445-452.	3.7	40
21	On the Equivalence of Major Variable-Step-Size MPPT Algorithms. IEEE Journal of Photovoltaics, 2016, 6, 590-594.	1.5	39
22	UDE-Based Controller Equipped with a Multi-Band-Stop Filter to Improve the Voltage Quality of Inverters. IEEE Transactions on Industrial Electronics, 2017, 64, 7433-7443.	5.2	37
23	UDE-based linear robust control for a class of nonlinear systems with application to wing rock motion stabilization. Nonlinear Dynamics, 2015, 81, 789-799.	2.7	36
24	A frequency domain approach to analyzing passive battery-ultracapacitor hybrids supplying periodic pulsed current loads. Energy Conversion and Management, 2011, 52, 3433-3438.	4.4	34
25	Five-parameter model of photovoltaic cell based on STC data and dimensionless. , 2012, , .		32
26	Guidelines to Classical Frequency-Domain Disturbance Observer Redesign for Enhanced Rejection of Periodic Uncertainties and Disturbances. IEEE Transactions on Power Electronics, 2019, 34, 3986-3995.	5.4	32
27	Virtual Torque and Inertia Loading of Controlled Electric Drive. IEEE Transactions on Education, 2005, 48, 47-52.	2.0	31
28	Analysis and Control of Direct Voltage Regulated Active DC-Link Capacitance Reduction Circuit. IEEE Transactions on Power Electronics, 2018, 33, 6318-6332.	5.4	30
29	DC Active Power Filter-Based Hybrid Energy Source for Pulsed Power Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1001-1010.	3.7	29
30	Dynamic Characterization of Power Electronic Interfaces. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 949-961.	3.7	28
31	Dynamics of Photovoltaic-Generator-Interfacing Voltage-Controlled Buck Power Stage. IEEE Journal of Photovoltaics, 2015, 5, 633-640.	1.5	28
32	Output Voltage Range of a Power-Loaded Series-Series Compensated Inductive Wireless Power Transfer Link Operating in Load-Independent Regime. IEEE Transactions on Power Electronics, 2020, 35, 6586-6593.	5.4	28
33	Uncertainty and Disturbance Estimator-Based Controllers Design Under Finite Control Bandwidth Constraint. IEEE Transactions on Industrial Electronics, 2018, 65, 1439-1449.	5.2	27
34	Control of Direct Voltage Regulated Active DC-Link Capacitance Reduction Circuits to Allow Plug-and-Play Operation. IEEE Transactions on Industrial Electronics, 2019, 66, 6527-6537.	5.2	27
35	Average Modeling and Performance Analysis of Voltage Sensorless Active Supercapacitor Balancer With Peak Current Protection. IEEE Transactions on Power Electronics, 2017, 32, 1570-1578.	5.4	26
36	Portable Ultracapacitor-Based Power Source for Emergency Starting of Internal Combustion Engines. IEEE Transactions on Power Electronics, 2015, 30, 4283-4290.	5.4	25

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37	Performance assessment of a power loaded supercapacitor based on manufacturer data. Energy Conversion and Management, 2013, 76, 137-144.	4.4	24
38	Improved adaptive input voltage control of a solar array interfacing current mode controlled boost power stage. Energy Conversion and Management, 2015, 98, 369-375.	4.4	24
39	Modified Uncertainty and Disturbance Estimator for Enhanced Periodic Signals Suppression. IEEE Transactions on Industrial Electronics, 2019, 66, 1246-1254.	5.2	24
40	A Generalized Approach to Estimating Capacity Factor of Fixed Speed Wind Turbines. IEEE Transactions on Sustainable Energy, 2012, 3, 607-608.	5.9	23
41	Interfacing renewable energy sources for maximum power transfer—Part I: Statics. Renewable and Sustainable Energy Reviews, 2014, 31, 501-508.	8.2	23
42	Rapid Prototyping of a Low-Cost Solar Array Simulator Using an Off-the-Shelf DC Power Supply. IEEE Transactions on Power Electronics, 2014, 29, 5278-5284.	5.4	23
43	Maximum power point matching versus maximum power point tracking for solar generators. Renewable and Sustainable Energy Reviews, 2013, 19, 11-17.	8.2	22
44	Optimized Design of Multiresonant AC Current Regulators for Single-Phase Grid-Connected Photovoltaic Inverters. IEEE Journal of Photovoltaics, 2019, 9, 1815-1818.	1.5	22
45	Analysis and design of inductive wireless power transfer link for feedback-less power delivery to enclosed compartment. Applied Energy, 2020, 278, 115743.	5.1	21
46	Comments on “An Efficient Partial Power Processing DC/DC Converter for Distributed PV Architectures”. IEEE Transactions on Power Electronics, 2015, 30, 2372-2372.	5.4	20
47	Solar Irradiation Independent Expression for Photovoltaic Generator Maximum Power Line. IEEE Journal of Photovoltaics, 2017, 7, 1416-1420.	1.5	20
48	Review of PV Generator as an Input Source for Power Electronic Converters. Energies, 2017, 10, 1076.	1.6	19
49	Closed-Form Analytic Expression of Total Harmonic Distortion in Single-Phase Multilevel Inverters With Staircase Modulation. IEEE Transactions on Industrial Electronics, 2020, 67, 5213-5216.	5.2	19
50	Comments on “An Analytical Solution for Tracking Photovoltaic Module MPP”. IEEE Journal of Photovoltaics, 2014, 4, 734-735.	1.5	18
51	Design of $\alpha$ -filter-based UDE controllers considering finite control bandwidth. Nonlinear Dynamics, 2015, 81, 411-416.	2.7	18
52	Long-Term Wide-Temperature Supercapacitor Ragone Plot Based on Manufacturer Datasheet. IEEE Transactions on Energy Conversion, 2016, 31, 404-406.	3.7	18
53	Zero Current Switching Resonant Converter Based Parallel Balancing of Serially Connected Batteries String. IEEE Transactions on Industry Applications, 2019, 55, 7452-7460.	3.3	18
54	Interfacing renewable energy sources for maximum power transfer—Part II: Dynamics. Renewable and Sustainable Energy Reviews, 2015, 51, 1771-1783.	8.2	17

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55	Active DC Link Capacitance Reduction in Grid-Connected Power Conversion Systems by Direct Voltage Regulation. IEEE Access, 2018, 6, 18163-18173.	2.6	17
56	Conditions for Direct Applicability of Electronic Capacitors to Dual-Stage Grid-Connected Power Conversion Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1805-1814.	3.7	17
57	Loop Shaping by Single-Resonant Controllers for Prescribed Tracking of Sinusoidal References. IEEE Transactions on Power Electronics, 2019, 34, 11352-11360.	5.4	17
58	Comments on "Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer". IEEE Transactions on Transportation Electrification, 2019, 5, 1480-1483.	5.3	17
59	Additional Two-Capacitor Basic Compensation Topologies for Resonant Inductive WPT Links. IEEE Transactions on Power Delivery, 2020, 35, 2568-2570.	2.9	17
60	Thevenin-based approach to PV arrays maximum power prediction. , 2010, , .		16
61	Robust output voltage control of multimode non-inverting DC-DC converter. International Journal of Control, 2017, 90, 110-120.	1.2	16
62	Uncertainty and Disturbance Estimator-Based Controller Equipped With a Time-Delayed Filter to Improve the Voltage Quality of Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 459-469.	5.2	16
63	Obtaining small photovoltaic array operational curves for arbitrary cell temperatures and solar irradiation densities from standard conditions data. Progress in Photovoltaics: Research and Applications, 2013, 21, 1016-1024.	4.4	15
64	Nonlinear Control of Electronic Capacitor for Enhanced Stability and Dynamic Response. IEEE Transactions on Industrial Electronics, 2021, 68, 6881-6892.	5.2	15
65	Design and optimization of low-temperature gradient thermoelectric harvester for wireless sensor network node on water pipelines. Applied Energy, 2021, 283, 116240.	5.1	15
66	Analysis of bi-directional buck-boost converter for energy storage applications. , 2013, , .		14
67	Uncertainty and disturbance estimator-assisted control of a two-axis active magnetic bearing. Transactions of the Institute of Measurement and Control, 2016, 38, 764-772.	1.1	14
68	Grid-Forming-Mode Operation of Boost-Power-Stage Converter in PV-Generator-Interfacing Applications. Energies, 2017, 10, 1033.	1.6	14
69	Modeling and Control of Magnetic Actuation Systems Based on Sensorless Displacement Information. IEEE Transactions on Industrial Electronics, 2019, 66, 4849-4859.	5.2	14
70	Modeling and Simulation of a Novel Active Three-Phase Multilevel Power Factor Correction Front End "The "Negev" Rectifier. IEEE Transactions on Energy Conversion, 2020, 35, 462-473.	3.7	14
71	Dynamics of supercapacitor bank with uncontrolled active balancer for engine starting. Energy Conversion and Management, 2014, 88, 106-112.	4.4	13
72	Simple mechanical parameters identification of induction machine using voltage sensor only. Energy Conversion and Management, 2015, 92, 60-66.	4.4	13

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73	Simple and straightforward realisation of an electronic capacitor. Electronics Letters, 2019, 55, 220-222.	0.5	13
74	Compensation Capacitors Sizing for Achieving Arbitrary Load-Independent Voltage Gain in Series-Series Inductive WPT Link Operating at Fixed Frequency. IEEE Transactions on Power Delivery, 2020, 35, 2737-2739.	2.9	13
75	Design of semi-active battery-ultracapacitor hybrids. , 2010, , .		12
76	Online dynamic conductance estimation based maximum power point tracking of photovoltaic generators. Energy Conversion and Management, 2018, 166, 687-696.	4.4	12
77	Phase Margin Oriented Design and Analysis of UDE-Based Controllers Under Actuator Constraints. IEEE Transactions on Industrial Electronics, 2018, 65, 8133-8141.	5.2	12
78	Input-output nominalization of linear systems with slowly-varying uncertainties. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 72-89.	0.5	11
79	Multimode power processing interface for fuel cell range extender in battery powered vehicle. Applied Energy, 2017, 204, 572-581.	5.1	11
80	Uncertainty and Disturbance Estimator Based Controller Equipped With a Multiple-Time-Delayed Filter to Improve the Voltage Quality of Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 8947-8957.	5.2	11
81	Analytical formulation and optimization of Weighted Total Harmonic Distortion in three-phase staircase modulated multilevel inverters. Energy, 2021, 215, 119137.	4.5	11
82	Comparison of Three Methods for Wind Turbine Capacity Factor Estimation. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	9
83	Off-the-Shelf Power Supply-Based Battery/Supercapacitor Emulator for Charger Functionality Testing. IEEE Transactions on Transportation Electrification, 2016, 2, 129-139.	5.3	9
84	On the Minimum DC Link Capacitance in Practical PFC Rectifiers Considering THD Requirements and Load Transients. IEEE Transactions on Industrial Electronics, 2022, 69, 11067-11075.	5.2	9
85	Single-Source Multi-Battery Solar Charger: Analysis and Stability Issues. Energies, 2015, 8, 6427-6450.	1.6	8
86	On the Similarity Between Low-frequency Equivalent Circuits of Photovoltaic and Wind Generators. IEEE Transactions on Energy Conversion, 2015, 30, 407-409.	3.7	8
87	Analytical Formulation and Minimization of Voltage THD in Staircase Modulated Multilevel Inverters With Variable DC Ratios. IEEE Access, 2020, 8, 208861-208878.	2.6	8
88	Electro-mechanical modeling of electromagnetic levitation melting system driven by a series resonant inverter with experimental validation. Energy Conversion and Management, 2020, 208, 112578.	4.4	8
89	A novel contactless, feedbackless and sensorless power delivery link to electromagnetic levitation melting system residing in sealed compartment. Energy, 2021, 231, 120789.	4.5	8
90	A Differential State-Space Approach to Simultaneous Emulation of Uncertainties and Disturbances in Voltage-Controlled Brushless Motors. IEEE Transactions on Industrial Electronics, 2010, 57, 727-734.	5.2	7

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91	Modeling and classical control of unidirectional Vienna rectifiers. , 2012, , .		7
92	Manufacturer-data-only-based modeling and optimized design of thermoelectric harvesters operating at low temperature gradients. Energy, 2020, 213, 119015.	4.5	7
93	Spatial Equivalent Circuit Model for Simulation of On-Chip Thermoelectric Harvesters. Micromachines, 2020, 11, 574.	1.4	7
94	Accurate first-harmonic-approximation-based model of the diode rectifier in series-series compensated inductive wireless power transfer link at load-independent-voltage-output frequency. AEU - International Journal of Electronics and Communications, 2021, 135, 153732.	1.7	7
95	Guidelines for Single-Parameter Multiresonant Current Controllers Design Allowing Prescribed Magnitude Tracking of Periodic References. IEEE Transactions on Power Electronics, 2021, 36, 9536-9546.	5.4	7
96	Uncertainty and disturbance estimator with improved steady-state performance for grid-connected power converters. IET Renewable Power Generation, 2020, 14, 2183-2191.	1.7	7
97	Robust control of wing rock motion. , 2011, , .		6
98	UDE-based robust voltage control of dc-dc power converters. , 2013, , .		6
99	Single-source multibattery solar charger: case study and implementation issues. Progress in Photovoltaics: Research and Applications, 2015, 23, 1916-1928.	4.4	6
100	Comments on "Design of $\alpha$ -filter based UDE controllers considering finite control bandwidth". Nonlinear Dynamics, 2016, 85, 693-698.	2.7	6
101	Zero-Sequence Manipulation to Maintain Correct Operation of NPC-PFC Rectifier Upon Neutral Line Disconnection and Reconnection. IEEE Transactions on Industrial Electronics, 2017, 64, 866-872.	5.2	6
102	Direct Fixed-Step Maximum Power Point Tracking Algorithms with Adaptive Perturbation Frequency. Energies, 2019, 12, 399.	1.6	6
103	Studies on Dynamic Properties of Ultracapacitors Using Infinite "C Chain Equivalent Circuit and Reverse Fourier Transform. Energies, 2020, 13, 4583.	1.6	6
104	On the Minimal Loading of Sensorless Series-Series Compensated Inductive WPT Link Operating at Load Independent Voltage Output Frequency Without Feedback. IEEE Access, 2020, 8, 192517-192526.	2.6	6
105	Autonomous induction generator with solid-state reactive power excitation. , 0, , .		5
106	HIL-based virtual disturbance and parameter variations of controlled electric drive. , 2008, , .		5
107	Disturbance observer assisted robust control of wing rock motion based on contraction theory. Simulation, 2013, 89, 1128-1136.	1.1	5
108	Analysis and optimization of TEG-heatsink waste energy harvesting system for low temperature gradients. , 2014, , .		5

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109	Synchronous frame current controllers design based on desired stationary frame transient performance. <i>Electronics Letters</i> , 2015, 51, 1769-1770.	0.5	5
110	A Fuel Efficiency Evaluation of Gas-Turbine-Engine-Based Hybrid Vehicles. <i>International Journal of Green Energy</i> , 2015, 12, 328-332.	2.1	5
111	Maximum Perturbation Step Size in MPP-Tracking Control for Ensuring Predicted PV Power Settling Behavior. <i>Energies</i> , 2019, 12, 3984.	1.6	5
112	Multi-regional modeling and operational analysis of LC/S-compensated inductive wireless power transfer link with load-independent current output. <i>Simulation Modelling Practice and Theory</i> , 2020, 105, 102154.	2.2	5
113	Modeling and Analysis of None-Series Compensation for Inductive Wireless Power Transfer Links. , 2020, , .		5
114	Output characteristics of none-series compensated inductive wireless power transfer link operating at load-independent-voltage-output frequency. <i>Simulation Modelling Practice and Theory</i> , 2022, 115, 102424.	2.2	5
115	Frequency spectra based approach to analytical formulation and minimization of voltage THD in staircase modulated multilevel inverters. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 7781-7809.	3.4	5
116	A DSP-controlled PWM generator using field programmable gate array. , 0, , .		4
117	Design of a robust voltage controller for an induction generator in an autonomous power system using a genetic algorithm. , 2006, , .		4
118	Capacitance-Increase Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 832-839.	2.4	4
119	Filter Design for UDE-based Controllers. , 2010, , .		4
120	Robust droop control of grid-connected inverters. , 2016, , .		4
121	Infinite virtual capacitor realization for grid-connected power converters. , 2016, , .		4
122	Analytical Derivation of Electrical-Side Maximum Power Line for Wind Generators. <i>Energies</i> , 2017, 10, 1498.	1.6	4
123	Analytic formulation and optimization of weighted total harmonic distortion in single-phase staircase modulated multilevel inverters. <i>Energy</i> , 2020, 199, 117470.	4.5	4
124	Envelope dynamics of resonant inverter driven electromagnetic levitation melting system with experimental verification. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106704.	4.4	4
125	Modified first harmonic approximation-based modeling of SN-compensated inductive power transfer links operating at load-independent-voltage-output frequency. <i>Simulation Modelling Practice and Theory</i> , 2021, 111, 102340.	2.2	4
126	Generalised optimised design of single-resonant AC current regulators. <i>Electronics Letters</i> , 2019, 55, 613-615.	0.5	4



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127	Plug-in disturbance observer assisted DC link voltage control of grid-connected converters to improve transient performance without deteriorating grid current quality. International Journal of Electrical Power and Energy Systems, 2022, 143, 108439.	3.3	4
128	Robust UDE-based control of uncertain nonlinear state-delay systems. , 2009, , .		3
129	Testing motion controllers robustness by emulating electrical and mechanical parameter variations of motor drives. Simulation Modelling Practice and Theory, 2011, 19, 1783-1794.	2.2	3
130	Impedance shaping for parallel operation of inverters in islanded AC microgrids. , 2015, , .		3
131	Sampling frequency design to optimizing MPP-tracking performance for open-loop-operated converters. , 2016, , .		3
132	UDE repetitive control for estimation of harmonic disturbances with time delay UDE based controller. , 2016, , .		3
133	Enhancing Low-Throttle-Operation Robustness of ICE-Based APU by Supercapacitor-Realized Virtual Inertia. IEEE Transactions on Sustainable Energy, 2017, 8, 1344-1346.	5.9	3
134	Modeling of Electromagnetic Levitation Melting System with Experimental Validation. , 2018, , .		3
135	Virtual Impedance Control for Efficient Power Transfer in Electromagnetic Levitation Melting System. , 2019, , .		3
136	Quadrature Demodulator based Output Voltage and Load Estimation of a Resonant Inductive WPT Link. , 2019, , .		3
137	Hybrid Internal Combustion Engine Based Auxiliary Power Unit. Micromachines, 2020, 11, 438.	1.4	3
138	Backup of Renewable Energy for an Electrical Island: Case Study of Israeli Electricity System's Current Status. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	2
139	Alternative Approach to Wind Turbine Performance Index Assessment. Journal of Energy Engineering - ASCE, 2014, 140, 06014001.	1.0	2
140	Real-time state-of-energy estimation of supercapacitor-based energy storage. , 2015, , .		2
141	Determining maximum MPP-tracking sampling frequency for input-voltage-controlled PV-interfacing converter. , 2016, , .		2
142	Tracking performance oriented design of proportional-resonant controllers under finite control bandwidth and actuator delay. , 2016, , .		2
143	Active voltage sensorless supercapacitor bank balancer with peak current protection. , 2016, , .		2
144	Loop Gain Oriented Design of Multiresonant Current Controllers. , 2018, , .		2

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145	Output Voltage Range of a Resonant Inductive WPT Link Operating in Load Independent Regime. , 2019, , .		2
146	Practical Issues with Unloaded Resonant Inductive WPT Link Operating in Load-Independent Regime. , 2019, , .		2
147	Modeling Technique of Large Signal Dynamics for Electromagnetic Levitation Melting System. , 2019, , .		2
148	Small-signal modeling and active damping of resonant electromagnetic levitation melting system with experimental verification. Energy Conversion and Management, 2020, 215, 112906.	4.4	2
149	Quadrature Demodulator-Assisted Estimation of Load Voltage and Resistance Based on Primary-Side Information of a Wireless Power Transfer Link. Electronics (Switzerland), 2021, 10, 1858.	1.8	2
150	Low Frequency Ripple-Free Finite Valued Electronic Capacitor. , 2020, , .		2
151	Output characteristics modeling and experimental verification of secondary-uncompensated inductive power delivery link operating without feedback. Energy, 2022, 252, 124104.	4.5	2
152	ANALYSIS OF GENERIC CYCLOCONVERTER OPERATION WITH INSTANTANEOUS COMMUTATION UNDER TRANSIENT AND STEADY-STATE CONDITIONS. Journal of Circuits, Systems and Computers, 2009, 18, 1061-1073.	1.0	1
153	Emulating time varying nonlinear uncertainties and disturbances in linear time invariant systems. Simulation, 2012, 88, 1499-1507.	1.1	1
154	Maximum power point matching of solar arrays to arbitrary loads. , 2012, , .		1
155	ON THE SIMILARITY BETWEEN PHASE LOCKED LOOP AND SYNCHRONOUS MOTOR PULL-IN PROCESSES. Journal of Circuits, Systems and Computers, 2014, 23, 1450009.	1.0	1
156	DC-Link Auxiliary Circuit Implementation to Improve Transient Response of Grid Connected Power Converters. , 2018, , .		1
157	A Novel Capacitor Sizing Method for Active DC Link Capacitance Reduction Circuit. , 2018, , .		1
158	Single-Phase Grid-Connected Photovoltaic System with Electronic DC Link. , 2019, , .		1
159	Experiment Oriented Closed-loop Speed Control Design for Induction Motor Based Industrial Blower. , 2020, , .		1
160	Output Voltage Range of SN-Compensated Inductive WPT Link Operating in Load Independent Regime. , 2021, , .		1
161	High Current Pulsed Power Supply for Multi-Stage Induction-Based Acceleration System. , 2021, , .		1
162	Guidelines for generalised quantitative frequency domain design of optimised multi-resonant AC current regulators for grid-connected inverters. IET Renewable Power Generation, 2020, 14, 3230-3237.	1.7	1

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163	Output Voltage Feedback Control Method for Series-Series Compensated Inductive Wireless Power Transfer Link with Varying Primary Capacitor. , 2021, , .		1
164	Controlling an electrical motion system by a load instruction decoding algorithm using FPGA. , 0, , .		0
165	Feed-forward Compensation of load and parameter variations of electric drive. , 2008, , .		0
166	Effect of input and output terminal sources on dynamic behavior of switched-mode converters. , 2014, , .		0
167	Boundary controller for switched capacitor converters. , 2014, , .		0
168	Nonlinear approximation of wind turbine capacity factor under Rayleigh winds. International Transactions on Electrical Energy Systems, 2014, 24, 1818-1821.	1.2	0
169	Robust UDE controller for energy storage application. , 2015, , .		0
170	Synchronous Motor Pull-in Process Analysis. Journal of Circuits, Systems and Computers, 2015, 24, 1550088.	1.0	0
171	Comparison of photovoltaic and wind generators as dynamic input sources to power processing interfaces. , 2016, , .		0
172	Factors affecting validity of PVG-power settling time estimation in designing MPP-tracking perturbation frequency. , 2017, , .		0
173	Modified FHA-based Diode Rectifier Representation for SN-Compensated Inductive WPT Links. , 2021, , .		0
174	Output Voltage and Resistance Assessment of Load-Independent-Voltage-Output Frequency Operating Inductive Wireless Power Transfer Link Utilizing Input DC-Side Measurements Only. Electronics (Switzerland), 2021, 10, 2109.	1.8	0
175	Transient response enhancement of PFC front end. , 2017, , .		0
176	Analytical Expression for Line Voltage THD of Three-Phase Staircase Modulated Multilevel Inverters. Electronics (Switzerland), 2022, 11, 364.	1.8	0
177	Primary Capacitance Control of S-S Compensated IWPT Link Voltage Gain. , 2021, , .		0