Alon Kuperman

List of Publications by Year
in descending order

177	3,578	185998 28	168136 53
papers	citations	h-index	g-index

177	177	177	2793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Output characteristics of none-series compensated inductive wireless power transfer link operating at load-independent-voltage-output frequency. Simulation Modelling Practice and Theory, 2022, 115, 102424.	2.2	5
3	Analytical Expression for Line Voltage THD of Three-Phase Staircase Modulated Multilevel Inverters. Electronics (Switzerland), 2022, 11, 364.	1.8	0
4	Frequency spectra based approach to analytical formulation and minimization of voltage THD in staircase modulated multilevel inverters. AEJ - Alexandria Engineering Journal, 2022, 61, 7781-7809.	3.4	5
5	Output characteristics modeling and experimental verification of secondary-uncompensated inductive power delivery link operating without feedback. Energy, 2022, 252, 124104.	4.5	2
6	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
7	Nonlinear Control of Electronic Capacitor for Enhanced Stability and Dynamic Response. IEEE Transactions on Industrial Electronics, 2021, 68, 6881-6892.	5.2	15
8	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
9	Analytical formulation and optimization of Weighted Total Harmonic Distortion in three-phase staircase modulated multilevel inverters. Energy, 2021, 215, 119137.	4.5	11
10	Modified FHA-based Diode Rectifier Representation for SN-Compensated Inductive WPT Links. , 2021, , .		0
11	Output Voltage Range of SN-Compensated Inductive WPT Link Operating in Load Independent Regime. , 2021, , .		1
12	High Current Pulsed Power Supply for Multi-Stage Induction-Based Acceleration System. , 2021, , .		1
13	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
14	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
15	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
16	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
17	Modified first harmonic approximation-based modeling of SN-compensated inductive power transfer links operating at load-independent-voltage-output frequency. Simulation Modelling Practice and Theory, 2021, 111, 102340.	2.2	4
18	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

#	Article	IF	Citations
19	Output Voltage Feedback Control Method for Series-Series Compensated Inductive Wireless Power Transfer Link with Varying Primary Capacitor. , 2021, , .		1
20	Primary Capacitance Control of S-S Compensated IWPT Link Voltage Gain. , 2021, , .		0
21	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
22	Modeling and Simulation of a Novel Active Three-Phase Multilevel Power Factor Correction Front End â€“ The â€œNegevâ€•Rectifier. IEEE Transactions on Energy Conversion, 2020, 35, 462-473.	3.7	14
23	Output Voltage Range of a Power-Loaded Seriesâ€“Series Compensated Inductive Wireless Power Transfer Link Operating in Load-Independent Regime. IEEE Transactions on Power Electronics, 2020, 35, 6586-6593.	5.4	28
24	Studies on Dynamic Properties of Ultracapacitors Using Infinite râ€“C Chain Equivalent Circuit and Reverse Fourier Transform. Energies, 2020, 13, 4583.	1.6	6
25	Experiment Oriented Closed-loop Speed Control Design for Induction Motor Based Industrial Blower. , 2020, , .		1
26	Multi-regional modeling and operational analysis of LC/S-compensated inductive wireless power transfer link with load-independent current output. Simulation Modelling Practice and Theory, 2020, 105, 102154.	2.2	5
27	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
28	Manufacturer-data-only-based modeling and optimized design of thermoelectric harvesters operating at low temperature gradients. Energy, 2020, 213, 119015.	4.5	7
29	Modeling and Analysis of None-Series Compensation for Inductive Wireless Power Transfer Links. , 2020, , .		5
30	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
31	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
32	Analytic formulation and optimization of weighted total harmonic distortion in single-phase staircase modulated multilevel inverters. Energy, 2020, 199, 117470.	4.5	4
33	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
34	Additional Two-Capacitor Basic Compensation Topologies for Resonant Inductive WPT Links. IEEE Transactions on Power Delivery, 2020, 35, 2568-2570.	2.9	17
35	Spatial Equivalent Circuit Model for Simulation of On-Chip Thermoelectric Harvesters. Micromachines, 2020, 11, 574.	1.4	7
36	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

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37	Envelope dynamics of resonant inverter driven electromagnetic levitation melting system with experimental verification. Mechanical Systems and Signal Processing, 2020, 140, 106704.	4.4	4
38	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
39	Hybrid Internal Combustion Engine Based Auxiliary Power Unit. Micromachines, 2020, 11, 438.	1.4	3
40	Uncertainty and disturbance estimator with improved steadyâ€state performance for gridâ€connected power converters. IET Renewable Power Generation, 2020, 14, 2183-2191.	1.7	7
41	Guidelines for generalised quantitative frequency domain design of optimised multiâ€resonant AC current regulators for gridâ€connected inverters. IET Renewable Power Generation, 2020, 14, 3230-3237.	1.7	1
42	Low Frequency Ripple-Free Finite Valued Electronic Capacitor. , 2020, , .		2
43	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
44	Modeling and Control of Magnetic Actuation Systems Based on Sensorless Displacement Information. IEEE Transactions on Industrial Electronics, 2019, 66, 4849-4859.	5.2	14
45	Modified Uncertainty and Disturbance Estimator for Enhanced Periodic Signals Suppression. IEEE Transactions on Industrial Electronics, 2019, 66, 1246-1254.	5.2	24
46	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
47	Single-Phase Grid-Connected Photovoltaic System with Electronic DC Link. , 2019, , .		1
48	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
49	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
50	Direct Fixed-Step Maximum Power Point Tracking Algorithms with Adaptive Perturbation Frequency. Energies, 2019, 12, 399.	1.6	6
51	Loop Shaping by Single-Resonant Controllers for Prescribed Tracking of Sinusoidal References. IEEE Transactions on Power Electronics, 2019, 34, 11352-11360.	5.4	17
52	Output Voltage Range of a Resonant Inductive WPT Link Operating in Load Independent Regime. , 2019, , .		2
53	Practical Issues with Unloaded Resonant Inductive WPT Link Operating in Load-Independent Regime. , 2019, , .		2
54	Comments on â€œAnalysis, Design, and Optimization of LC /S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transferâ€. IEEE Transactions on Transportation Electrification, 2019, 5, 1480-1483.	5.3	17

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55	Simple and straightforward realisation of an electronic capacitor. Electronics Letters, 2019, 55, 220-222.	0.5	13
56	Virtual Impedance Control for Efficient Power Transfer in Electromagnetic Levitation Melting System. , 2019, , .		3
57	Quadrature Demodulator based Output Voltage and Load Estimation of a Resonant Inductive WPT Link. , 2019, , .		3
58	Maximum Perturbation Step Size in MPP-Tracking Control for Ensuring Predicted PV Power Settling Behavior. Energies, 2019, 12, 3984.	1.6	5
59	Modeling Technique of Large Signal Dynamics for Electromagnetic Levitation Melting System. , 2019, , .		2
60	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
61	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
62	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
63	Generalised optimised design of singleâ€resonant AC current regulators. Electronics Letters, 2019, 55, 613-615.	0.5	4
64	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
65	Active DC Link Capacitance Reduction in Grid-Connected Power Conversion Systems by Direct Voltage Regulation. IEEE Access, 2018, 6, 18163-18173.	2.6	17
66	Online dynamic conductance estimation based maximum power point tracking of photovoltaic generators. Energy Conversion and Management, 2018, 166, 687-696.	4.4	12
67	Design Guidelines for Multiloop Perturbative Maximum Power Point Tracking Algorithms. IEEE Transactions on Power Electronics, 2018, 33, 1284-1293.	5.4	43
68	Uncertainty and Disturbance Estimator-Based Controllers Design Under Finite Control Bandwidth Constraint. IEEE Transactions on Industrial Electronics, 2018, 65, 1439-1449.	5.2	27
69	DC-Link Auxiliary Circuit Implementation to Improve Transient Response of Grid Connected Power Converters. , 2018, , .		1
70	A Novel Capacitor Sizing Method for Active DC Link Capacitance Reduction Circuit. , 2018, , .		1
71	Loop Gain Oriented Design of Multiresonant Current Controllers. , 2018, , .		2
72	Modeling of Electromagnetic Levitation Melting System with Experimental Validation. , 2018, , .		3

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73	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
74	Robust output voltage control of multimode non-inverting DCâ€“DC converter. International Journal of Control, 2017, 90, 110-120.	1.2	16
75	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
76	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
77	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
78	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
79	Multimode power processing interface for fuel cell range extender in battery powered vehicle. Applied Energy, 2017, 204, 572-581.	5.1	11
80	Solar Irradiation Independent Expression for Photovoltaic Generator Maximum Power Line. IEEE Journal of Photovoltaics, 2017, 7, 1416-1420.	1.5	20
81	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
82	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
83	Factors affecting validity of PVG-power settling time estimation in designing MPP-tracking perturbation frequency. , 2017, , .		0
84	Grid-Forming-Mode Operation of Boost-Power-Stage Converter in PV-Generator-Interfacing Applications. Energies, 2017, 10, 1033.	1.6	14
85	Review of PV Generator as an Input Source for Power Electronic Converters. Energies, 2017, 10, 1076.	1.6	19
86	Analytical Derivation of Electrical-Side Maximum Power Line for Wind Generators. Energies, 2017, 10, 1498.	1.6	4
87	Transient response enhancement of PFC front end. , 2017, , .		0
88	Sampling frequency design to optimizing MPP-tracking performance for open-loop-operated converters. , 2016, , .		3
89	Determining maximum MPP-tracking sampling frequency for input-voltage-controlled PV-interfacing converter. , 2016, , .		2
90	Robust droop control of grid-connected inverters. , 2016, , .		4

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91	Tracking performance oriented design of proportional-resonant controllers under finite control bandwidth and actuator delay. , 2016, , .		2
92	UDE repetitive control for estimation of harmonic disturbances with time delay UDE based controller. , 2016, , .		3
93	Infinite virtual capacitor realization for grid-connected power converters. , 2016, , .		4
94	Comparison of photovoltaic and wind generators as dynamic input sources to power processing interfaces. , 2016, , .		0
95	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
96	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
97	Active voltage sensorless supercapacitor bank balancer with peak current protection. , 2016, , .		2
98	Comments on â€œDesign of $$varvec{alpha }$$ Î± -filter based UDE controllers considering finite control bandwidthâ€• Nonlinear Dynamics, 2016, 85, 693-698.	2.7	6
99	Recursive-Least-Squares-Based Real-Time Estimation of Supercapacitor Parameters. IEEE Transactions on Energy Conversion, 2016, 31, 810-812.	3.7	81
100	On the Equivalence of Major Variable-Step-Size MPPT Algorithms. IEEE Journal of Photovoltaics, 2016, 6, 590-594.	1.5	39
101	Long-Term Wide-Temperature Supercapacitor Ragone Plot Based on Manufacturer Datasheet. IEEE Transactions on Energy Conversion, 2016, 31, 404-406.	3.7	18
102	Robust UDE controller for energy storage application. , 2015, , .		0
103	Synchronous frame current controllers design based on desired stationary frame transient performance. Electronics Letters, 2015, 51, 1769-1770.	0.5	5
104	Real-time state-of-energy estimation of supercapacitor-based energy storage. , 2015, , .		2
105	Single-Source Multi-Battery Solar Charger: Analysis and Stability Issues. Energies, 2015, 8, 6427-6450.	1.6	8
106	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
107	Simple mechanical parameters identification of induction machine using voltage sensor only. Energy Conversion and Management, 2015, 92, 60-66.	4.4	13
108	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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109	A Fuel Efficiency Evaluation of Gas-Turbine-Engine-Based Hybrid Vehicles. International Journal of Green Energy, 2015, 12, 328-332.	2.1	5
110	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
111	Singleâ€source multibattery solar charger: case study and implementation issues. Progress in Photovoltaics: Research and Applications, 2015, 23, 1916-1928.	4.4	6
112	Dynamics of Photovoltaic-Generator-Interfacing Voltage-Controlled Buck Power Stage. IEEE Journal of Photovoltaics, 2015, 5, 633-640.	1.5	28
113	Proportional-Resonant Current Controllers Design Based on Desired Transient Performance. IEEE Transactions on Power Electronics, 2015, 30, 5341-5345.	5.4	154
114	Design of $$varvec{upalpha }$$ Î± -filter-based UDE controllers considering finite control bandwidth. Nonlinear Dynamics, 2015, 81, 411-416.	2.7	18
115	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
116	Synchronous Motor Pull-in Process Analysis. Journal of Circuits, Systems and Computers, 2015, 24, 1550088.	1.0	0
117	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
118	Interfacing renewable energy sources for maximum power transferâ€"Part II: Dynamics. Renewable and Sustainable Energy Reviews, 2015, 51, 1771-1783.	8.2	17
119	Comprehensive dynamic analysis of photovoltaic generator interfacing DCâ€"DC boost power stage. IET Renewable Power Generation, 2015, 9, 306-314.	1.7	41
120	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
121	Impedance shaping for parallel operation of inverters in islanded AC microgrids. , 2015, , .		3
122	Analysis of Dual-Carrier Modulator for Bidirectional Noninverting Buckâ€"Boost Converter. IEEE Transactions on Power Electronics, 2015, 30, 840-848.	5.4	73
123	Comments on â€œAn Efficient Partial Power Processing DC/DC Converter for Distributed PV Architecturesâ€. IEEE Transactions on Power Electronics, 2015, 30, 2372-2372.	5.4	20
124	Backup of Renewable Energy for an Electrical Island: Case Study of Israeli Electricity Systemâ€"Current Status. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	2
125	Comparison of Three Methods for Wind Turbine Capacity Factor Estimation. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	9
126	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

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127	Effect of input and output terminal sources on dynamic behavior of switched-mode converters. , 2014, , .		0
128	Alternative Approach to Wind Turbine Performance Index Assessment. Journal of Energy Engineering - ASCE, 2014, 140, 06014001.	1.0	2
129	Boundary controller for switched capacitor converters. , 2014, , .		0
130	Interfacing renewable energy sources for maximum power transferâ€"Part I: Statics. Renewable and Sustainable Energy Reviews, 2014, 31, 501-508.	8.2	23
131	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
132	Analysis and optimization of TEG-heatsink waste energy harvesting system for low temperature gradients. , 2014, , .		5
133	Issues in Modeling Amorphous Silicon Photovoltaic Modules by Single-Diode Equivalent Circuit. IEEE Transactions on Industrial Electronics, 2014, 61, 6785-6793.	5.2	53
134	Performance and Limitations of a Constant Power-Fed Supercapacitor. IEEE Transactions on Energy Conversion, 2014, 29, 445-452.	3.7	40
135	Comments on â€œAn Analytical Solution for Tracking Photovoltaic Module MPPâ€• IEEE Journal of Photovoltaics, 2014, 4, 734-735.	1.5	18
136	Dynamics of supercapacitor bank with uncontrolled active balancer for engine starting. Energy Conversion and Management, 2014, 88, 106-112.	4.4	13
137	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
138	Supercapacitor Sizing Based on Desired Power and Energy Performance. IEEE Transactions on Power Electronics, 2014, 29, 5399-5405.	5.4	63
139	Dynamic Characterization of Power Electronic Interfaces. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 949-961.	3.7	28
140	Nonlinear approximation of wind turbine capacity factor under Rayleigh winds. International Transactions on Electrical Energy Systems, 2014, 24, 1818-1821.	1.2	0
141	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
142	Battery Charger for Electric Vehicle Traction Battery Switch Station. IEEE Transactions on Industrial Electronics, 2013, 60, 5391-5399.	5.2	139
143	Maximum power point matching versus maximum power point tracking for solar generators. Renewable and Sustainable Energy Reviews, 2013, 19, 11-17.	8.2	22
144	Performance assessment of a power loaded supercapacitor based on manufacturer data. Energy Conversion and Management, 2013, 76, 137-144.	4.4	24

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145	UDE-based robust voltage control of dc-dc power converters. , 2013, , .		6
146	Analysis of bi-directional buck-boost converter for energy storage applications. , 2013, , .		14
147	Design of a Semiactive Battery-Ultracapacitor Hybrid Energy Source. IEEE Transactions on Power Electronics, 2013, 28, 806-815.	5.4	144
148	Analytic Modeling of Vehicle Fuel Consumption. Energies, 2013, 6, 117-127.	1.6	62
149	Disturbance observer assisted robust control of wing rock motion based on contraction theory. Simulation, 2013, 89, 1128-1136.	1.1	5
150	Emulating time varying nonlinear uncertainties and disturbances in linear time invariant systems. Simulation, 2012, 88, 1499-1507.	1.1	1
151	Five-parameter model of photovoltaic cell based on STC data and dimensionless. , 2012, , .		32
152	Maximum power point matching of solar arrays to arbitrary loads. , 2012, , .		1
153	A Generalized Approach to Estimating Capacity Factor of Fixed Speed Wind Turbines. IEEE Transactions on Sustainable Energy, 2012, 3, 607-608.	5.9	23
154	Modeling and classical control of unidirectional Vienna rectifiers. , 2012, , .		7
155	Robust control of wing rock motion. , 2011, , .		6
156	Topological Overview of Powertrains for Battery-Powered Vehicles With Range Extenders. IEEE Transactions on Power Electronics, 2011, 26, 868-876.	5.4	215
157	A frequency domain approach to analyzing passive batteryâ€“ultracapacitor hybrids supplying periodic pulsed current loads. Energy Conversion and Management, 2011, 52, 3433-3438.	4.4	34
158	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
159	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
160	Batteryâ€“ultracapacitor hybrids for pulsed current loads: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 981-992.	8.2	301
161	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
162	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

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163	Inputâ€output nominalization of linear systems with slowâ€varying uncertainties. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 72-89.	0.5	11
164	Capacitance-Increase Method. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 832-839.	2.4	4
165	Design of semi-active battery-ultracapacitor hybrids. , 2010, , .		12
166	Filter Design for UDE-based Controllers. , 2010, , .		4
167	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
168	Thevenin-based approach to PV arrays maximum power prediction. , 2010, , .		16
169	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
170	Robust UDE-based control of uncertain nonlinear state-delay systems. , 2009, , .		3
171	Feed-forward Compensation of load and parameter variations of electric drive. , 2008, , .		0
172	HIL-based virtual disturbance and parameter variations of controlled electric drive. , 2008, , .		5
173	Design of a robust voltage controller for an induction generator in an autonomous power system using a genetic algorithm. , 2006, , .		4
174	Virtual Torque and Inertia Loading of Controlled Electric Drive. IEEE Transactions on Education, 2005, 48, 47-52.	2.0	31
175	Autonomous induction generator with solid-state reactive power excitation. , 0, , .		5
176	A DSP-controlled PWM generator using field programmable gate array. , 0, , .		4
177	Controlling an electrical motion system by a load instruction decoding algorithm using FPGA. , 0, , .		0