Constantinos Sourkounis

List of Publications by Year
in descending order

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177	875	1307594	1125743
papers	citations	7 h-index	13 g-index

177	177	177	551
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grid Code Requirements for Wind Power Integration in Europe. Conference Papers in Energy, 2013, 2013, 1-9.	0.6	102
2	Variable step size P&O MPPT algorithm for PV systems. , 2010, , .		87
3	Energy Yield and Power Fluctuation of Different Control Methods for Wind Energy Converters. IEEE Transactions on Industry Applications, 2011, 47, 1480-1486.	4.9	31
4	Charging Behavior of Users Utilizing Battery Electric Vehicles and Extended Range Electric Vehicles Within the Scope of a Field Test. IEEE Transactions on Industry Applications, 2018, 54, 580-590.	4.9	28
5	On Influence of Non Deterministic Modulation Schemes on a Drive Train System With a PMSM Within an Electric Vehicle. IEEE Transactions on Industry Applications, 2016, 52, 3388-3397.	4.9	26
6	Review of control strategies for DFIG-based wind turbines under unsymmetrical grid faults. , 2014, , .		21
7	A low-cost current sensor with a novel modulated interface (F-PWM). , 2010, , .		20
8	Novel hysteresis controller based on a rotating coordinate system with direct d and q constraint. , 2012, , .		16
9	Evaluation of state-based controlled STATCOM for DFIG-based WECS during voltage sags. , 2016, , .		16
10	Comparison of electric vehicles with single drive and four wheel drive system concerning regenerative braking. , 2017, , .		15
11	A comprehensive analysis and comparison between Multilevel Space-Vector Modulation and Multilevel Carrier-Based PWM. , 2008, , .		11
12	Accessing flexibility of electric vehicles for smart grid integration. , 2014, , .		11
13	Optimal voltage control strategy for grid-feeding power converters in AC microgrids. Electric Power Systems Research, 2019, 176, 105945.	3.6	11
14	Drive Train Control for Wind Energy Converters Based on Stochastic Dynamic Optmisation. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	10
15	Multi-tracking single-fed PV inverter. , 2010, , .		10
16	Hysteresis-based PI state control of grid-connected voltage source converter with LCL filter for power conditioning. , 2017, , .		10
17	Smart charge management of electric vehicles in decentralized power supply systems. , 2011, , .		9
18	On influence of deterministic and non-deterministic modulation schemes in two-level filter-less inverter performance driving a permanent magnet synchronous motor. , 2013, , .		9

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19	New Stability Concept for Primary Controlled Variable Speed Wind Turbines Considering Wind Fluctuations and Power Smoothing. IEEE Transactions on Industry Applications, 2022, 58, 2378-2388.	4.9	9
20	Cascaded state control for dynamic power conditioning in wind parks. , 2011, , .		8
21	Investigation of fault ride-through behavior of DFIG-based wind energy conversion systems. , 2014, , .		8
22	Contactless charging electric vehicles with renewable energy. , 2014, , .		8
23	Energy storage integration in DFIG-based wind energy conversion systems for improved fault ride-through capability. , 2017, , .		8
24	Smart Windpark Laboratory: Infrastructure for Application-oriented Wind Energy Research. , 2019, , .		8
25	Brake force distributions optimised with regard to energy recovery for electric vehicles with single frontâ€wheel drive or rearâ€wheel drive. IET Electrical Systems in Transportation, 2019, 9, 186-195.	2.4	8
26	Control strategies for energy storage to smooth power fluctuations of wind parks. , 2010, , .		7
27	Design and analysis of a coreless flyback converter with a planar printed-circuit-board transformer. , 2010, , .		7
28	Effects of the control-process-structure to the drivability in electric vehicles. , 2011, , .		7
29	Modular power conditioner concept for improving quality of supply. , 2015, , .		7
30	Flexible Dimensioning Opportunities of a (Virtual) Flux-Based Hysteresis Controller for a Reduced Switching Frequency. IEEE Transactions on Industry Applications, 2016, 52, 3451-3460.	4.9	7
31	Speed Controller Design Utilizing H-Infinity Optimization and a Modal Drive Train Model for Torsional Oscillation Damping. , 2019, , .		7
32	Latent Thermal Energy Storage Application in a Residential Building at a Mediterranean Climate. Energies, 2022, 15, 1008.	3.1	7
33	Dynamic speed flexible drive system for shredder-plants with highly restricted control range. , 2008, , .		6
34	Influence of Wind Energy Converter Control Methods on the Output Frequency Components. , 2008, , .		6
35	Electronic synchronous machine for dynamic power conditioning in wind parks. , 2011, , .		6
36	Unbalanced voltage drops compensations using flywheel energy storage system. , 2011, , .		6

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37	Analysis of a measurement system in respect to the dependency of the current sensor sampling rate and the inverter switching time. , 2013, , .		6
38	Transient behaviour and active damping of vibrations in DFIG-based wind turbines during grid disturbances. , 2015, , .		6
39	On advanced control strategies for DFIG-based wind energy conversion systems during voltage unbalance. , 2017, , .		6
40	Operation and Control Strategies for Wind Energy Conversion Systems: Review and Simulation Study. , 2019, , .		6
41	Modeling and Simulation Study of a DFIG Wind Turbine in a 3D Wind Field During Startup and Wind Speed Changes. , 2019, , .		6
42	Verification of management methods for power storage in wind parks. , 2009, , .		5
43	Influence of charging electric vehicles and on the quality of the distribution grids. , 2011, , .		5
44	Dynamical operational behavior of the power drain of wind energy converters with PMSM considering different current control methods. , 2011, , .		5
45	A modulated interface for a low-cost current sensor in comparison with its simulated model. , 2012, , .		5
46	Design and analysis of different structure of a coreless planar transformer for a flyback converter. , 2012, , .		5
47	Web-based virtual experiment for teaching doubly-fed induction generator in the context of wind energy conversion. , 2013, , .		5
48	Optimization of D-Q-hysteresis controller. , 2013, , .		5
49	A brain emotional learning-based intelligent controller (BELBIC) for DFIG system. , 2014, , .		5
50	Electrotechnical investigation of zinc-air cells for determination of cell-parameters for a battery management system. , 2015, , .		5
51	Industrial electric grid evaluation regarding harmonics based on measurement data. , 2016, , .		5
52	Sensor minimal cell monitoring with integrated direct active cell balancing. , 2017, , .		5
53	Novel computation-efficient three-phase EPLL-based grid synchronization techniques considering power quality issues. , 2017, , .		5
54	Alternative start-up and control of a DFIG-DCM laboratory test bench for wind energy applications. , 2017, , .		5

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55	Investigation of Virtual Synchronous Machine Control for the Grid-Side Converter of Wind Turbines with Permanently Excited Synchronous Generator. , 2019, , .		5
56	Advanced Primary Control Structure for Variable Speed Wind Turbines with regard to Wind Fluctuations. , 2020, , .		5
57	Influence of a high precision current sensor for improving the efficiency of PV power systems. , 2011, , .		4
58	Integration of flywheel energy storage system in production lines for voltage drop compensation. , 2011, , .		4
59	Pollution of high power charging electric vehicles in urban distribution grids. , 2011, , .		4
60	PID-State Torque Control in Electromechanical Drive Systems Under Stochastic Load. IEEE Transactions on Industry Applications, 2012, 48, 20-27.	4.9	4
61	Battery management system realisation for electric vehicles. , 2014, , .		4
62	Mitigation of oscillations in DFIG-based WECS operating in unbalanced networks. , 2015, , .		4
63	LCL-Filter design for a battery charger based on buck converter (DCDC converter). , 2016, , .		4
64	Modelling and torque control for active minimization of drivetrain oscillations in high power wind turbines. , 2016, , .		4
65	Cascaded operation-mode-adaptive control for power conditioning systems with uninterruptible power supply capability. , 2017, , .		4
66	LCL filter design for a modular power conditioning system with uninterruptible power supply capability. , 2017, , .		4
67	Actively Damped PI-based Control Design of Grid-Connected Three-Level VSC with LCL Filter. , 2018, , .		4
68	Concept design of a test bench for wind energy conversion systems with PMSG considering electrical and mechanical interactions. , 2018, , .		4
69	Direct active cell balancing with integrated cell monitoring. IET Electrical Systems in Transportation, 2019, 9, 244-250.	2.4	4
70	Model Predictive Control for DFIG-based Wind Turbines with NPC Voltage Source Converter. , 2019, , .		4
71	Analysis of the Potential for Increased Power Production in an Onshore Test Wind Farm Using Active Wake Control Methods. , 2021, , .		4
72	Conditioning of Dynamic Power Gradients of Wind Parks. , 2006, , .		3

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73	Dynamical torque-speed-curve adaption to damp load peaks occuring in drive trains of shredding plants. , 2008, , .		3
74	Energy Yield and Power Fluctuation of Different Control Methods for Wind Energy Converters. , 2010, , .		3
75	Mechanical and electrical behaviour of an electric vehicles drive train due to the choice of the control-system. , 2011, , .		3
76	Influence of the inverter control-system to the mechanical and electrical behaviour of an electric vehicle modulated as a two-mass-system. , 2012, , .		3
77	Novel direct-torque-constraint-hysteresis controller. , 2013, , .		3
78	Web-based interactive animated virtual experiments for teaching wind energy utilization. , 2013, , .		3
79	Torque control methods for active damping of vibrations in drive systems of wind turbines. , 2014, , .		3
80	Control of a doubly-fed induction generator under grid faults using a d-q hysteresis current regulator. , 2014, , .		3
81	A modified modulation strategy for an active rectifier stage structurally based on the topology of an indirect matrix converter. , 2014, , .		3
82	Analysis of low-cost current sensors in the area of power engineering. , 2014, , .		3
83	Influence of line based and space vector hysteresis control processes on PMSM in electric vehicles. , 2014, , .		3
84	Interactive virtual experiments for web-based education on wind energy. , 2014, , .		3
85	Influence of the drive train topology and the center of mass on the regenerative braking in electric vehicles. , 2017, , .		3
86	Performance evaluation of hysteresis-based PI state control for grid-connected NPC voltage-fed power converter with LCL filter. , 2017, , .		3
87	Networked Control Approach for Voltage Regulation with Optimal Reactive Power-Sharing. , 2018, , .		3
88	Review on Optimal Wind Farm Control Techniques and Prospects of Artificial Intelligence. , 2019, , .		3
89	Development of Artificial Neural Network and Adaptive Neuro-Fuzzy Inference System Based Techniques and Algorithms for Protection of Transmission Line. , 2019, , .		3
90	Influence of the Braking System and the Type of Regenerative Braking Request on the Energy Consumption of Electric Vehicles. , 2020, , .		3

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91	Deduction of Goal-Oriented Minimum-Order Models for Advanced Motion Control on the Example of Large Industrial Drives. , 2020, , .		3
92	Power output characteristics analysis of wind energy converter control methods. , 2008, , .		2
93	S-curve-control for active load peak damping in the drive train. , 2009, , .		2
94	PID-State Torque Control in Electromechanical Drive Systems under Stochastic Load. , 2010, , .		2
95	Voltage drops mitigations using flywheel energy storage system in production lines. , 2011, , .		2
96	Stochastic dynamic optimization for wind energy converters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 265-279.	0.9	2
97	Measurement sensors in an electric vehicles. , 2012, , .		2
98	Study for using electric vehicles as energy supply within the electric grid. , 2012, , .		2
99	Implementation of different layouts of a coreless planar transformer for a flyback converter. , 2012, , .		2
100	Operation management of a high power vehicle-to-grid charging station. , 2013, , .		2
101	Storage system management for power conditioning in wind parks. , 2014, , .		2
102	A novel intelligent controller for DFIG-based wind turbine system. , 2014, , .		2
103	A comparative study of rotor flux position- and stator flux position-based direct power control method in a DFIG wind turbine system. , 2014, , .		2
104	Simulation of a torque based hysteresis control in high dynamic conditions. , 2015, , .		2
105	Development of a testing device for Electric Vehicles Chargers. , 2015, , .		2
106	Simulation of a torque based hysteresis control in static and low dynamic conditions. , 2015, , .		2
107	Structural development of a battery test bed's management software for long-term measurements. , 2016, , .		2
108	Development of a low cost universal sensor for an accurate measurement of current, voltage and temperature. , 2016, , .		2

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109	Cascaded control strategy for a modular shunt-connected Power Conditioning System. , 2016, , .		2
110	Control strategy for a modular shunt-connected Power Conditioning System. , 2016, , .		2
111	Performance analysis of doubly fed induction generators operating in weak power systems. , 2016, , .		2
112	Performance Evaluation of Model Predictive Control for Neutral-Point-Clamped Voltage Source Converter with LCL Filter. , 2019, , .		2
113	Comparison of Multi-Mass Models and Modal Models for State Estimation of High Power Drives. , 2021, , .		2
114	Observer based Primary Control Structure without Wind Speed Measurement for Variable Speed Wind Turbines. , 2020, , .		2
115	Multi-variable control of generator system for variable speed wind energy converters. , 2012, , .		1
116	S-curve speed control for variable speed wind energy converters. , 2013, , .		1
117	Comparison of Control Methods for Asynchronous Motors within Electric Vehicles. , 2014, , .		1
118	Management strategies for a existing energy supply system based on wind energy utilization. , 2014, , .		1
119	Voltage control at grid connection point by high power charging stations. , 2014, , .		1
120	Guidelines for renewable energy based supply system for various types of buildings. , 2014, , .		1
121	DFIG-based wind energy conversion systems under unbalanced voltage dips. , 2014, , .		1
122	Active vibration minimization in drive systems of wind power plants by PID state control. , 2014, , .		1
123	Improvements on robustness of hysteresis-based vector control of DFIG using brain emotional leaning-based intelligent controller (BELBIC). , 2014, , .		1
124	Modelling and power quality evaluation of power transformers. , 2015, , .		1
125	PWM based modulation strategy with variable switching frequency for an active rectifier stage with flexible DC-voltage output. , 2015, , .		1
126	The consideration of current sensors and the sampling frequency. , 2016, , .		1

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127	Smartphone application to evaluate the individual possibilities for the application of electric vehicles. , 2017, , .		1
128	Efficiency analysis of pumps drives for Space Vector PWM and Hysteresis Band PWM with on operation transaction of the control method. , 2017, , .		1
129	Performance evaluation of STATCOM-supported DFIG-based wind energy conversion systems during unbalanced network conditions. , 2017, , .		1
130	Wireless Diagnostic Tool for Electric Vehicles with Synchronized Data Acquisition: Development of a Multi-Purpose Wireless Sensor System. , 2017, , .		1
131	Optimized Recuperation Strategies for Single Front and Rear Wheel Drives. , 2017, , .		1
132	Direct Active and Inductive Cell Balancing with Integrated Cell Monitoring for Second Life Battery Systems. , 2017, , .		1
133	Assessment of Methods for Estimating the Maximum Coefficient of Friction between Road and Tire. , 2017, , .		1
134	Investigation of Hysteresis-based State Feedback Controller for Grid-Interfaced Power Converters. , 2019, , .		1
135	Multi-Purpose Communication Protocol for Wired and Wireless Sensor Networks with Actuators. , 2019, , .		1
136	Comparison of drive train topologies for electric vehicles with regard to regenerative braking. , 2019, , .		1
137	Concept of interlinking mobility services for urban transport towards intermodal mobility including private and shared electromobility. , 2019, , .		1
138	Development of a 3D Wind Flow Model for Real-Time Wind Farm Simulation. , 2019, , .		1
139	Active Damping Control for Variable-Speed Wind Turbines with VSM as Grid-Side Control. , 2021, , .		1
140	Design of a Gain Scheduling Pitch Controller for Wind Turbines by Using the Bode Diagram. , 2021, , .		1
141	Model Predictive Control of a High Power Rolling-Mill Drive Considering Shaft Torque Constraints. , 2021, , .		1
142	Influences of Virtual Inertia Control on the Mechanical Drive Train of Wind Turbines. , 2020, , .		1
143	H-Infinity Speed Controller Design for Vibratory Drive Trains with Low Mass Ratio. , 2020, , .		1
144	Damping Controller Design for a DFIM-based Shredder Drive using H-Infinity Optimization. , 2021, , .		1

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145	Performance Evaluation of Multi-Step Exhaustive Search Finite Control Set Model Predictive Control for Multi-Level Voltage Source Converter. , 2021, , .		1
146	Generating conforming time characteristics for stochastic technical processes. , 2008, , .		0
147	PI-state control of Electronic Synchronous Machine for dynamic power conditioning in wind parks. , 2011, , .		0
148	Voltage drops mitigations using flywheel energy storage system in production lines. , 2011, , .		0
149	Using the drive train of an gearless wind-energy-converter for active damping of oscillations in rotor blades. , 2012, , .		0
150	A low-cost three phase current sensor module with a novel modulated interface. , 2012, , .		0
151	Basic control concept for a speed-variable wind energy converter in a low-power grid. , 2012, , .		0
152	Multi-functional high power charging stations in weak grids. , 2014, , .		0
153	Energy management for short term storage systems in wind parks. , 2014, , .		0
154	Electric vehicle application of rotational space vector hysteresis control with different electric motors. , 2014, , .		0
155	Control methods for active vibration minimization in drive systems of wind power plants. , 2014, , .		0
156	Integration of quick charging stations in weak power grids. , 2014, , .		0
157	Voltage stabilization in weak grids by high power charging stations. , 2014, , .		0
158	Concepts for an integration of quick charging stations in weak power grids. , 2014, , .		0
159	On Multifunctional and Robust Sensor Technology Used in Electric Vehicle Applications. , 2014, , .		0
160	Highly dynamic DC-voltage control by means of a bidirectional three phase voltage source inverter. , 2015, , .		0
161	Battery Cell Balancing with Integrated Cell Monitoring. ATZ Worldwide, 2017, 119, 62-65.	0.1	0
162	Modelling of the phase change phenomenon based on the enthalpy and the enhanced enthalpy methods. , 2017, , .		0

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163	On reactive and distortion power compensation with a modular shunt-connected power conditioning system. , 2017, , .		0
164	On the performance of space vector EPLL-based grid synchronization technique during power quality disturbances. , 2017, , .		0
165	Analysis of optimization Strategies for Grid-Side Converter Control during Grid Faults using DSRF Control. , 2019, , .		0
166	Influence of medium temperature on the efficiency of wet rotor pumps. , 2019, , .		0
167	Investigation of the Influence of Direct and Indirect Current Control Methods on the Dynamic Properties of a State Space Speed Control. , 2019, , .		0
168	Adapted Operational Management of Wind Turbines for the Provision of Primary Power Reserve. , 2021, , .		0
169	Minimum-Order Observer Synthesis for Mechatronic Drive Trains with Multiple Application-Relevant Eigenfrequencies. , 2021, , .		0
170	Conditioning of Dynamic Power Gradients of Wind Parks. , 2006, , .		0
171	Inverter Control Effects to the Mechanical and Electrical Behaviour of an Electric Vehicles Drive-Train Modulated as a Two-Mass-System. , 2012, , .		0
172	Decoupling Concepts for Control Methods of Generator Systems for Wind Energy Converters. , 2012, , .		0
173	Generator Control Methods for Active Damping of Oscillations in Wind Energy Converters. , 2012, , .		0
174	Active Damping Control Strategies for WEC with VSM considering DC-Link Dynamics. , 2021, , .		0
175	Procedure for Avoiding and Reducing Peak Loads at Large-scale Consumers via Bidirectional Charging of Electric Vehicles to Save Electricity Costs. , 2021, , .		0
176	Control for the Provision of Virtual Inertia by Wind Turbines with PMSG considering Wind Fluctuations. , 2020, , .		0
177	Direct Torque Control with an underlying predictive controller in the rotating reference frame (DTCr). , 2020, , .		0