

# Constantinos Sourkounis

## List of Publications by Year in descending order

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177  
papers

875  
citations

1307594

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h-index

1125743

13  
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177  
all docs

177  
docs citations

177  
times ranked

551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Latent Thermal Energy Storage Application in a Residential Building at a Mediterranean Climate. Energies, 2022, 15, 1008.	3.1	7
2	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
3	Active Damping Control for Variable-Speed Wind Turbines with VSM as Grid-Side Control. , 2021, , .		1
4	Adapted Operational Management of Wind Turbines for the Provision of Primary Power Reserve. , 2021, , .		0
5	Design of a Gain Scheduling Pitch Controller for Wind Turbines by Using the Bode Diagram. , 2021, , .		1
6	Comparison of Multi-Mass Models and Modal Models for State Estimation of High Power Drives. , 2021, , .		2
7	Analysis of the Potential for Increased Power Production in an Onshore Test Wind Farm Using Active Wake Control Methods. , 2021, , .		4
8	Minimum-Order Observer Synthesis for Mechatronic Drive Trains with Multiple Application-Relevant Eigenfrequencies. , 2021, , .		0
9	Active Damping Control Strategies for WEC with VSM considering DC-Link Dynamics. , 2021, , .		0
10	Model Predictive Control of a High Power Rolling-Mill Drive Considering Shaft Torque Constraints. , 2021, , .		1
11	Procedure for Avoiding and Reducing Peak Loads at Large-scale Consumers via Bidirectional Charging of Electric Vehicles to Save Electricity Costs. , 2021, , .		0
12	Damping Controller Design for a DFIM-based Shredder Drive using H-Infinity Optimization. , 2021, , .		1
13	Performance Evaluation of Multi-Step Exhaustive Search Finite Control Set Model Predictive Control for Multi-Level Voltage Source Converter. , 2021, , .		1
14	Advanced Primary Control Structure for Variable Speed Wind Turbines with regard to Wind Fluctuations. , 2020, , .		5
15	Influences of Virtual Inertia Control on the Mechanical Drive Train of Wind Turbines. , 2020, , .		1
16	Control for the Provision of Virtual Inertia by Wind Turbines with PMSG considering Wind Fluctuations. , 2020, , .		0
17	Influence of the Braking System and the Type of Regenerative Braking Request on the Energy Consumption of Electric Vehicles. , 2020, , .		3
18	H-Infinity Speed Controller Design for Vibratory Drive Trains with Low Mass Ratio. , 2020, , .		1

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19	Direct Torque Control with an underlying predictive controller in the rotating reference frame (DTCr). , 2020, , .		0
20	Observer based Primary Control Structure without Wind Speed Measurement for Variable Speed Wind Turbines. , 2020, , .		2
21	Deduction of Goal-Oriented Minimum-Order Models for Advanced Motion Control on the Example of Large Industrial Drives. , 2020, , .		3
22	Optimal voltage control strategy for grid-feeding power converters in AC microgrids. Electric Power Systems Research, 2019, 176, 105945.	3.6	11
23	Analysis of optimization Strategies for Grid-Side Converter Control during Grid Faults using DSRF Control. , 2019, , .		0
24	Investigation of Hysteresis-based State Feedback Controller for Grid-Interfaced Power Converters. , 2019, , .		1
25	Smart Windpark Laboratory: Infrastructure for Application-oriented Wind Energy Research. , 2019, , .		8
26	Multi-Purpose Communication Protocol for Wired and Wireless Sensor Networks with Actuators. , 2019, , .		1
27	Operation and Control Strategies for Wind Energy Conversion Systems: Review and Simulation Study. , 2019, , .		6
28	Comparison of drive train topologies for electric vehicles with regard to regenerative braking. , 2019, , .		1
29	Performance Evaluation of Model Predictive Control for Neutral-Point-Clamped Voltage Source Converter with LCL Filter. , 2019, , .		2
30	Investigation of Virtual Synchronous Machine Control for the Grid-Side Converter of Wind Turbines with Permanently Excited Synchronous Generator. , 2019, , .		5
31	Influence of medium temperature on the efficiency of wet rotor pumps. , 2019, , .		0
32	Speed Controller Design Utilizing H-Infinity Optimization and a Modal Drive Train Model for Torsional Oscillation Damping. , 2019, , .		7
33	Concept of interlinking mobility services for urban transport towards intermodal mobility including private and shared electromobility. , 2019, , .		1
34	Investigation of the Influence of Direct and Indirect Current Control Methods on the Dynamic Properties of a State Space Speed Control. , 2019, , .		0
35	Direct active cell balancing with integrated cell monitoring. IET Electrical Systems in Transportation, 2019, 9, 244-250.	2.4	4
36	Modeling and Simulation Study of a DFIG Wind Turbine in a 3D Wind Field During Startup and Wind Speed Changes. , 2019, , .		6

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37	Review on Optimal Wind Farm Control Techniques and Prospects of Artificial Intelligence. , 2019, , .		3
38	Development of Artificial Neural Network and Adaptive Neuro-Fuzzy Inference System Based Techniques and Algorithms for Protection of Transmission Line. , 2019, , .		3
39	Model Predictive Control for DFIG-based Wind Turbines with NPC Voltage Source Converter. , 2019, , .		4
40	Development of a 3D Wind Flow Model for Real-Time Wind Farm Simulation. , 2019, , .		1
41	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
42	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
43	Networked Control Approach for Voltage Regulation with Optimal Reactive Power-Sharing. , 2018, , .		3
44	Actively Damped PI-based Control Design of Grid-Connected Three-Level VSC with LCL Filter. , 2018, , .		4
45	Concept design of a test bench for wind energy conversion systems with PMSG considering electrical and mechanical interactions. , 2018, , .		4
46	Influence of the drive train topology and the center of mass on the regenerative braking in electric vehicles. , 2017, , .		3
47	Comparison of electric vehicles with single drive and four wheel drive system concerning regenerative braking. , 2017, , .		15
48	Smartphone application to evaluate the individual possibilities for the application of electric vehicles. , 2017, , .		1
49	Sensor minimal cell monitoring with integrated direct active cell balancing. , 2017, , .		5
50	Battery Cell Balancing with Integrated Cell Monitoring. ATZ Worldwide, 2017, 119, 62-65.	0.1	0
51	Novel computation-efficient three-phase EPLL-based grid synchronization techniques considering power quality issues. , 2017, , .		5
52	Cascaded operation-mode-adaptive control for power conditioning systems with uninterruptible power supply capability. , 2017, , .		4
53	Efficiency analysis of pumps drives for Space Vector PWM and Hysteresis Band PWM with on operation transaction of the control method. , 2017, , .		1
54	Hysteresis-based PI state control of grid-connected voltage source converter with LCL filter for power conditioning. , 2017, , .		10

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55	Performance evaluation of STATCOM-supported DFIG-based wind energy conversion systems during unbalanced network conditions. , 2017, , .		1
56	Performance evaluation of hysteresis-based PI state control for grid-connected NPC voltage-fed power converter with LCL filter. , 2017, , .		3
57	On advanced control strategies for DFIG-based wind energy conversion systems during voltage unbalance. , 2017, , .		6
58	Energy storage integration in DFIG-based wind energy conversion systems for improved fault ride-through capability. , 2017, , .		8
59	LCL filter design for a modular power conditioning system with uninterruptible power supply capability. , 2017, , .		4
60	Modelling of the phase change phenomenon based on the enthalpy and the enhanced enthalpy methods. , 2017, , .		0
61	Wireless Diagnostic Tool for Electric Vehicles with Synchronized Data Acquisition: Development of a Multi-Purpose Wireless Sensor System. , 2017, , .		1
62	On reactive and distortion power compensation with a modular shunt-connected power conditioning system. , 2017, , .		0
63	Optimized Recuperation Strategies for Single Front and Rear Wheel Drives. , 2017, , .		1
64	Direct Active and Inductive Cell Balancing with Integrated Cell Monitoring for Second Life Battery Systems. , 2017, , .		1
65	On the performance of space vector EPLL-based grid synchronization technique during power quality disturbances. , 2017, , .		0
66	Assessment of Methods for Estimating the Maximum Coefficient of Friction between Road and Tire. , 2017, , .		1
67	Alternative start-up and control of a DFIG-DCM laboratory test bench for wind energy applications. , 2017, , .		5
68	Structural development of a battery test bed's management software for long-term measurements. , 2016, , .		2
69	Development of a low cost universal sensor for an accurate measurement of current, voltage and temperature. , 2016, , .		2
70	Evaluation of state-based controlled STATCOM for DFIG-based WECS during voltage sags. , 2016, , .		16
71	LCL-Filter design for a battery charger based on buck converter (DCDC converter). , 2016, , .		4
72	Cascaded control strategy for a modular shunt-connected Power Conditioning System. , 2016, , .		2

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73	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
74	Industrial electric grid evaluation regarding harmonics based on measurement data. , 2016, , .		5
75	Control strategy for a modular shunt-connected Power Conditioning System. , 2016, , .		2
76	Modelling and torque control for active minimization of drivetrain oscillations in high power wind turbines. , 2016, , .		4
77	The consideration of current sensors and the sampling frequency. , 2016, , .		1
78	Performance analysis of doubly fed induction generators operating in weak power systems. , 2016, , .		2
79	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
80	Simulation of a torque based hysteresis control in high dynamic conditions. , 2015, , .		2
81	Electrotechnical investigation of zinc-air cells for determination of cell-parameters for a battery management system. , 2015, , .		5
82	Development of a testing device for Electric Vehicles Chargers. , 2015, , .		2
83	Transient behaviour and active damping of vibrations in DFIG-based wind turbines during grid disturbances. , 2015, , .		6
84	Simulation of a torque based hysteresis control in static and low dynamic conditions. , 2015, , .		2
85	Modelling and power quality evaluation of power transformers. , 2015, , .		1
86	Mitigation of oscillations in DFIG-based WECS operating in unbalanced networks. , 2015, , .		4
87	Modular power conditioner concept for improving quality of supply. , 2015, , .		7
88	PWM based modulation strategy with variable switching frequency for an active rectifier stage with flexible DC-voltage output. , 2015, , .		1
89	Highly dynamic DC-voltage control by means of a bidirectional three phase voltage source inverter. , 2015, , .		0
90	Comparison of Control Methods for Asynchronous Motors within Electric Vehicles. , 2014, , .		1

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91	Multi-functional high power charging stations in weak grids. , 2014, , .		0
92	Energy management for short term storage systems in wind parks. , 2014, , .		0
93	Management strategies for a existing energy supply system based on wind energy utilization. , 2014, , .		1
94	Torque control methods for active damping of vibrations in drive systems of wind turbines. , 2014, , .		3
95	Control of a doubly-fed induction generator under grid faults using a d-q hysteresis current regulator. , 2014, , .		3
96	Voltage control at grid connection point by high power charging stations. , 2014, , .		1
97	Electric vehicle application of rotational space vector hysteresis control with different electric motors. , 2014, , .		0
98	A modified modulation strategy for an active rectifier stage structurally based on the topology of an indirect matrix converter. , 2014, , .		3
99	Battery management system realisation for electric vehicles. , 2014, , .		4
100	Accessing flexibility of electric vehicles for smart grid integration. , 2014, , .		11
101	Analysis of low-cost current sensors in the area of power engineering. , 2014, , .		3
102	Guidelines for renewable energy based supply system for various types of buildings. , 2014, , .		1
103	Influence of line based and space vector hysteresis control processes on PMSM in electric vehicles. , 2014, , .		3
104	Control methods for active vibration minimization in drive systems of wind power plants. , 2014, , .		0
105	Interactive virtual experiments for web-based education on wind energy. , 2014, , .		3
106	Storage system management for power conditioning in wind parks. , 2014, , .		2
107	Integration of quick charging stations in weak power grids. , 2014, , .		0
108	DFIG-based wind energy conversion systems under unbalanced voltage dips. , 2014, , .		1

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109	Active vibration minimization in drive systems of wind power plants by PID state control. , 2014, , .		1
110	A novel intelligent controller for DFIG-based wind turbine system. , 2014, , .		2
111	Investigation of fault ride-through behavior of DFIG-based wind energy conversion systems. , 2014, , .		8
112	Voltage stabilization in weak grids by high power charging stations. , 2014, , .		0
113	Concepts for an integration of quick charging stations in weak power grids. , 2014, , .		0
114	Improvements on robustness of hysteresis-based vector control of DFIG using brain emotional leaning-based intelligent controller (BELBIC). , 2014, , .		1
115	Contactless charging electric vehicles with renewable energy. , 2014, , .		8
116	A brain emotional learning-based intelligent controller (BELBIC) for DFIG system. , 2014, , .		5
117	Review of control strategies for DFIG-based wind turbines under unsymmetrical grid faults. , 2014, , .		21
118	A comparative study of rotor flux position- and stator flux position-based direct power control method in a DFIG wind turbine system. , 2014, , .		2
119	On Multifunctional and Robust Sensor Technology Used in Electric Vehicle Applications. , 2014, , .		0
120	Analysis of a measurement system in respect to the dependency of the current sensor sampling rate and the inverter switching time. , 2013, , .		6
121	S-curve speed control for variable speed wind energy converters. , 2013, , .		1
122	Operation management of a high power vehicle-to-grid charging station. , 2013, , .		2
123	On influence of deterministic and non-deterministic modulation schemes in two-level filter-less inverter performance driving a permanent magnet synchronous motor. , 2013, , .		9
124	Web-based virtual experiment for teaching doubly-fed induction generator in the context of wind energy conversion. , 2013, , .		5
125	Novel direct-torque-constraint-hysteresis controller. , 2013, , .		3
126	Optimization of D-Q-hysteresis controller. , 2013, , .		5



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127	Web-based interactive animated virtual experiments for teaching wind energy utilization. , 2013, , .		3
128	Grid Code Requirements for Wind Power Integration in Europe. Conference Papers in Energy, 2013, 2013, 1-9.	0.6	102
129	Measurement sensors in an electric vehicles. , 2012, , .		2
130	Novel hysteresis controller based on a rotating coordinate system with direct d and q constraint. , 2012, , .		16
131	Study for using electric vehicles as energy supply within the electric grid. , 2012, , .		2
132	A modulated interface for a low-cost current sensor in comparison with its simulated model. , 2012, , .		5
133	Multi-variable control of generator system for variable speed wind energy converters. , 2012, , .		1
134	PID-State Torque Control in Electromechanical Drive Systems Under Stochastic Load. IEEE Transactions on Industry Applications, 2012, 48, 20-27.	4.9	4
135	Using the drive train of an gearless wind-energy-converter for active damping of oscillations in rotor blades. , 2012, , .		0
136	A low-cost three phase current sensor module with a novel modulated interface. , 2012, , .		0
137	Basic control concept for a speed-variable wind energy converter in a low-power grid. , 2012, , .		0
138	Design and analysis of different structure of a coreless planar transformer for a flyback converter. , 2012, , .		5
139	Influence of the inverter control-system to the mechanical and electrical behaviour of an electric vehicle modulated as a two-mass-system. , 2012, , .		3
140	Implementation of different layouts of a coreless planar transformer for a flyback converter. , 2012, , .		2
141	Inverter Control Effects to the Mechanical and Electrical Behaviour of an Electric Vehicles Drive-Train Modulated as a Two-Mass-System. , 2012, , .		0
142	Decoupling Concepts for Control Methods of Generator Systems for Wind Energy Converters. , 2012, , .		0
143	Generator Control Methods for Active Damping of Oscillations in Wind Energy Converters. , 2012, , .		0
144	Influence of charging electric vehicles and on the quality of the distribution grids. , 2011, , .		5

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145	Effects of the control-process-structure to the drivability in electric vehicles. , 2011, , .		7
146	Electronic synchronous machine for dynamic power conditioning in wind parks. , 2011, , .		6
147	Mechanical and electrical behaviour of an electric vehicles drive train due to the choice of the control-system. , 2011, , .		3
148	Influence of a high precision current sensor for improving the efficiency of PV power systems. , 2011, , .		4
149	Smart charge management of electric vehicles in decentralized power supply systems. , 2011, , .		9
150	PI-state control of Electronic Synchronous Machine for dynamic power conditioning in wind parks. , 2011, , .		0
151	Dynamical operational behavior of the power drain of wind energy converters with PMSM considering different current control methods. , 2011, , .		5
152	Voltage drops mitigations using flywheel energy storage system in production lines. , 2011, , .		0
153	Unbalanced voltage drops compensations using flywheel energy storage system. , 2011, , .		6
154	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
155	Integration of flywheel energy storage system in production lines for voltage drop compensation. , 2011, , .		4
156	Pollution of high power charging electric vehicles in urban distribution grids. , 2011, , .		4
157	Voltage drops mitigations using flywheel energy storage system in production lines. , 2011, , .		2
158	Cascaded state control for dynamic power conditioning in wind parks. , 2011, , .		8
159	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
160	A low-cost current sensor with a novel modulated interface (F-PWM). , 2010, , .		20
161	Variable step size P&amp;O MPPT algorithm for PV systems. , 2010, , .		87
162	Control strategies for energy storage to smooth power fluctuations of wind parks. , 2010, , .		7

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163	Energy Yield and Power Fluctuation of Different Control Methods for Wind Energy Converters. , 2010, , .		3
164	Design and analysis of a coreless flyback converter with a planar printed-circuit-board transformer. , 2010, , .		7
165	PID-State Torque Control in Electromechanical Drive Systems under Stochastic Load. , 2010, , .		2
166	Multi-tracking single-fed PV inverter. , 2010, , .		10
167	Verification of management methods for power storage in wind parks. , 2009, , .		5
168	S-curve-control for active load peak damping in the drive train. , 2009, , .		2
169	A comprehensive analysis and comparison between Multilevel Space-Vector Modulation and Multilevel Carrier-Based PWM. , 2008, , .		11
170	Generating conforming time characteristics for stochastic technical processes. , 2008, , .		0
171	Dynamic speed flexible drive system for shredder-plants with highly restricted control range. , 2008, , .		6
172	Influence of Wind Energy Converter Control Methods on the Output Frequency Components. , 2008, , .		6
173	Power output characteristics analysis of wind energy converter control methods. , 2008, , .		2
174	Dynamical torque-speed-curve adaption to damp load peaks occuring in drive trains of shredding plants. , 2008, , .		3
175	Conditioning of Dynamic Power Gradients of Wind Parks. , 2006, , .		3
176	Drive Train Control for Wind Energy Converters Based on Stochastic Dynamic Optimisation. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	10
177	Conditioning of Dynamic Power Gradients of Wind Parks. , 2006, , .		0