

Elias Kyriakides

List of Publications by Year in descending order

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159
papers

4,911
citations

147801
31
h-index

110387
64
g-index

160
all docs

160
docs citations

160
times ranked

3773
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Management and Control of Photovoltaic and Storage Systems in Active Distribution Grids. IEEE Transactions on Power Systems, 2022, 37, 1956-1968.	6.5	15
2	Effect of dynamic load models on WAC operation and demand-side control under real-time conditions. International Journal of Electrical Power and Energy Systems, 2021, 126, 106589.	5.5	4
3	A Coordinated Voltage–Frequency Support Scheme for Storage Systems Connected to Distribution Grids. IEEE Transactions on Power Electronics, 2021, 36, 8464-8475.	7.9	16
4	Energy Management and Control of a Flywheel Storage System for Peak Shaving Applications. IEEE Transactions on Smart Grid, 2021, 12, 4195-4207.	9.0	29
5	Evaluating the Flexibility Benefits of Smart Grid Innovations in Transmission Networks. Applied Sciences (Switzerland), 2021, 11, 10692.	2.5	19
6	Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation. IEEE Systems Journal, 2020, 14, 422-432.	4.6	9
7	State Estimation for Distribution Grids with a Single Point Grounded Neutral Conductor. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	4.7	11
8	Wide Area Control of Governors and Power System Stabilizers With an Adaptive Tuning of Coordination Signals. IEEE Open Access Journal of Power and Energy, 2020, 7, 70-81.	3.4	7
9	Hybrid multi-agent-based adaptive control scheme for AC microgrids with increased fault-tolerance needs. IET Renewable Power Generation, 2020, 14, 13-26.	3.1	9
10	Assessing the Operational Flexibility in Power Systems with Energy Storage Integration. Lecture Notes in Electrical Engineering, 2020, , 1-12.	0.4	4
11	A Real-Time Controlled Islanding and Restoration Scheme Based on Estimated States. IEEE Transactions on Power Systems, 2019, 34, 606-615.	6.5	34
12	Voltage Support Scheme for Low Voltage Distribution Grids Under Voltage Sags. , 2019, , .		1
13	Multi-functional distributed generation control scheme for improving the grid power quality. IET Power Electronics, 2019, 12, 30-43.	2.1	24
14	Diversifying the Role of Distributed Generation Grid-Side Converters for Improving the Power Quality of Distribution Networks Using Advanced Control Techniques. IEEE Transactions on Industry Applications, 2019, 55, 4110-4123.	4.9	17
15	Grid Friendly Operation of a PV-Storage System with Profit Maximization and Reliability Enhancement. , 2019, , .		7
16	Phase Balancing and Reactive Power Support Services for Microgrids. Applied Sciences (Switzerland), 2019, 9, 5067.	2.5	23
17	Voltage and Frequency Support Scheme for Storage Systems in Distribution Grids. , 2019, , .		2
18	Control Scheme for Phase Balancing of Low-Voltage Distribution Grids. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
19	A Sensor-less Control Scheme for Grid Tied Inverters to Provide Phase Balancing Services to the Distribution Grid. , 2019, , .		1
20	Bounds of Estimated States Based on Line Parameter Uncertainties. , 2019, , .		1
21	Intentional Controlled Islanding of Power Systems Equipped With Battery Energy Storage Systems. , 2019, , .		1
22	Partial discharge modeling: An advanced capacitive model of void. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1805-1813.	2.9	10
23	When to Island for Blackout Prevention. IEEE Systems Journal, 2019, 13, 3326-3336.	4.6	13
24	Uncertainty Bounds of Transmission Line Parameters Estimated From Synchronized Measurements. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2808-2818.	4.7	33
25	Integration of Renewables Into the Wide Area Control Scheme for Damping Power Oscillations. IEEE Transactions on Power Systems, 2018, 33, 5778-5786.	6.5	25
26	Three-phase phase-locked loop synchronization algorithms for grid-connected renewable energy systems: A review. Renewable and Sustainable Energy Reviews, 2018, 90, 434-452.	16.4	118
27	Intentional Controlled Islanding and Risk Assessment: A Unified Framework. IEEE Systems Journal, 2018, 12, 3637-3648.	4.6	19
28	A new MAF based \hat{I}_{\pm}^2 EPMAFP LL for grid connected RES with improved performance under grid faults. Electric Power Systems Research, 2018, 154, 130-139.	3.6	23
29	Controlled Islanding Solution for Large-Scale Power Systems. IEEE Transactions on Power Systems, 2018, 33, 1591-1602.	6.5	59
30	Effect of Load Composition on the Frequency Response of the Cyprus Power System. , 2018, , .		3
31	Denoising of PMU Measurements for Accurate Calculation of Transmission Line Parameters. , 2018, , .		1
32	An improved decentralised coordinated control scheme for microgrids with AC-coupled units. , 2018, , .		1
33	Design of an advanced PLL for accurate phase angle extraction under grid voltage HHs and DC offset. IET Power Electronics, 2018, 11, 995-1008.	2.1	35
34	Energy scheduling in non-residential buildings integrating battery storage and renewable solutions. , 2018, , .		6
35	Photovoltaic reactive power compensation scheme: An investigation for the Cyprus distribution grid. , 2018, , .		5
36	A Two-Stage State Estimator for Dynamic Monitoring of Power Systems. IEEE Systems Journal, 2017, 11, 1767-1776.	4.6	30

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37	A Plug-and-Play Selective Load Shedding Scheme for Power Systems. IEEE Systems Journal, 2017, 11, 2864-2871.	4.6	17
38	Dynamic IEEE Test Systems for Transient Analysis. IEEE Systems Journal, 2017, 11, 2108-2117.	4.6	120
39	A Synchronization Scheme for Single-Phase Grid-Tied Inverters Under Harmonic Distortion and Grid Disturbances. IEEE Transactions on Power Electronics, 2017, 32, 2784-2793.	7.9	54
40	Identification and Estimation of Erroneous Transmission Line Parameters Using PMU Measurements. IEEE Transactions on Power Delivery, 2017, , 1-1.	4.3	63
41	Metrics and Quantification of Operational and Infrastructure Resilience in Power Systems. IEEE Transactions on Power Systems, 2017, 32, 4732-4742.	6.5	458
42	Partial discharge modeling and induced charge concept: Comments and criticism of pedersen's model and associated measured transients. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1118-1122.	2.9	20
43	Near-real-time loss allocation methodology based on the power system states. IET Generation, Transmission and Distribution, 2017, 11, 1243-1250.	2.5	4
44	Robust Fault Detection, Isolation, and Accommodation of Current Sensors in Grid Side Converters. IEEE Transactions on Industry Applications, 2017, 53, 2852-2861.	4.9	34
45	Cooperation of wide area control with renewable energy sources for robust power oscillation damping. , 2017, , .		1
46	Accurate and efficient modelling of grid tied inverters for investigating their interaction with the power grid. , 2017, , .		5
47	An advanced current controller with reduced complexity and improved performance under abnormal grid conditions. , 2017, , .		15
48	Performance enhancement of MAF based PLL with phase error compensation in the pre-filtering stage. , 2017, , .		11
49	System splitting strategy considering power system restoration. , 2017, , .		7
50	The effect of PMU measurement chain quality on line parameter calculation. , 2017, , .		11
51	Dynamic load modelling using real time estimated states. , 2017, , .		1
52	Flexible power control scheme for interconnected photovoltaics to benefit the power quality and the network losses of the distribution grid. , 2017, , .		15
53	Minimal Load Shedding Using the Swing Equation. IEEE Transactions on Power Systems, 2017, 32, 2466-2467.	6.5	50
54	Analytical derivation of PQ indicators compatible with control strategies for DC microgrids. , 2017, , .		9

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55	Improved transient performance properties of distributed generation grid side converter current controller under grid voltage harmonic distortion and unbalanced faults. , 2017, , .		2
56	Investigation of the factors influencing wide area control. , 2017, , .		1
57	Diversifying the role of distributed generation grid side converters for improving the power quality of distribution networks using advanced control techniques. , 2017, , .		6
58	The effect of PMU measurement delays on a linear state estimator: Centralized Vs decentralized. , 2017, , .		1
59	A computationally efficient current controller for simultaneous injection of both positive and negative sequences. , 2017, , .		9
60	Test System for Mapping Interdependencies of Critical Infrastructures for Intelligent Management in Smart Cities. Progress in IS, 2017, , 355-377.	0.6	1
61	Design of a data delay compensation technique based on a linear predictor for wide-area Measurements. , 2016, , .		4
62	A synchronization scheme for single-phase grid-tied inverters under harmonic distortion and grid disturbances. , 2016, , .		6
63	Parameter estimation for measurement-based load modeling using the Levenberg-Marquardt algorithm. , 2016, , .		7
64	Applying exact MILP formulation for controlled islanding of power systems. , 2016, , .		6
65	Bad data detection considering the accuracy of instrument transformers. , 2016, , .		4
66	The impact of PMU measurement delays and a heterogenous communication network on a linear state estimator. , 2016, , .		2
67	Dynamic modeling of IEEE test systems including renewable energy sources. , 2016, , .		4
68	An 18 kW solar array research facility for fault detection experiments. , 2016, , .		21
69	Low-cost real-time monitoring of a laboratory scale power system. , 2016, , .		3
70	A Synchronization Method for Single-Phase Grid-Tied Inverters. IEEE Transactions on Power Electronics, 2016, 31, 2139-2149.	7.9	106
71	Physical Simulators of Critical Infrastructures. Studies in Systems, Decision and Control, 2016, , 63-83.	1.0	0
72	The Effect of Branch Parameter Errors to Voltage Stability Indices. Lecture Notes in Computer Science, 2016, , 122-134.	1.3	1

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73	The effect of branch parameter errors on voltage stability enhancement schemes. , 2015, , .		0
74	Semantically-Enhanced Configurability in State Estimation Structures of Power Systems. , 2015, , .		2
75	Critical Infrastructure Systems: Basic Principles of Monitoring, Control, and Security. Studies in Computational Intelligence, 2015, , 1-30.	0.9	4
76	A Robust Synchronization to Enhance the Power Quality of Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 4858-4868.	7.9	145
77	Load pseudomeasurements in distribution system state estimation. , 2015, , .		4
78	Investigation of different Fault Ride Through strategies for renewable energy sources. , 2015, , .		16
79	Estimation of transmission line parameters using PMU measurements. , 2015, , .		26
80	Real-time identification of coherent generator groups. , 2015, , .		7
81	Benchmarking of phase locked loop based synchronization techniques for grid-connected inverter systems. , 2015, , .		40
82	The effect of time-delayed measurements on a PMU-based state estimator. , 2015, , .		7
83	Estimation of the rotor angle of a synchronous generator by using PMU measurements. , 2015, , .		10
84	Enhancing power system voltage stability through a centralized control of renewable energy sources. , 2015, , .		7
85	An Adaptive Tuning Mechanism for Phase-Locked Loop Algorithms for Faster Time Performance of Interconnected Renewable Energy Sources. IEEE Transactions on Industry Applications, 2015, 51, 1792-1804.	4.9	56
86	The use of a PMU-based state estimator for tracking power system dynamics. , 2014, , .		9
87	Probabilistic approaches to power system security assessment. , 2014, , .		0
88	Adaptive frequency control application for a real autonomous islanded grid. , 2014, , .		2
89	Power quality improvement of single-phase photovoltaic systems through a robust synchronization method. , 2014, , .		6
90	Powering Through the Storm: Microgrids Operation for More Efficient Disaster Recovery. IEEE Power and Energy Magazine, 2014, 12, 67-76.	1.6	107

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91	The Effect of Variable Weights in a WLS State Estimator Considering Instrument Transformer Uncertainties. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1484-1495.	4.7	46
92	Recent methodologies and approaches for the economic dispatch of generation in power systems. International Transactions on Electrical Energy Systems, 2013, 23, 1002-1027.	1.9	32
93	Partial discharge modeling: an improved capacitive model and associated transients along medium voltage distribution cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 770-781.	2.9	24
94	An intelligent load shedding mechanism for maintaining frequency stability. , 2013, , .		3
95	A New Hybrid PLL for Interconnecting Renewable Energy Systems to the Grid. IEEE Transactions on Industry Applications, 2013, 49, 2709-2719.	4.9	114
96	Impact of loss calculation on different loss allocation procedures. , 2013, , .		0
97	An adaptive Phase-Locked Loop algorithm for faster fault ride through performance of interconnected renewable energy sources. , 2013, , .		7
98	Estimation of line parameters using the hybrid state estimator. , 2013, , .		8
99	Power system state estimation considering real-time equivalents of the external networks. , 2013, , .		5
100	Designing high efficiency segmented thermoelectric generators. Energy Conversion and Management, 2013, 66, 165-172.	9.2	110
101	On implementing a spectral clustering controlled islanding algorithm in real power systems. , 2013, , .		5
102	Synchronization of grid-connected renewable energy sources under highly distorted voltages and unbalanced grid faults. , 2013, , .		26
103	Closure on "GA-API Solution for the Economic Dispatch of Generation in Power System Operation" IEEE Transactions on Power Systems, 2013, 28, 571-571.	6.5	4
104	A grid side converter current controller for accurate current injection under normal and fault ride through operation. , 2013, , .		24
105	Measurement data aggregation for active distribution networks. , 2013, , .		13
106	Transformation of measurements for using external network equivalents in state estimation. , 2013, , .		4
107	The effect of instrument transformer accuracy class on the WLS state estimator accuracy. , 2013, , .		8
108	The Performance of a New Hybrid PLL in an Interconnected Renewable Energy Systems under Fault Ride Through Operation. Conference Papers in Energy, 2013, 2013, 1-10.	0.6	1

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109	A Plug and Play, Approximation-Based, Selective Load Shedding Mechanism for the Future Electrical Grid. Lecture Notes in Computer Science, 2013, , 74-83.	1.3	4
110	On the complexities of interdependent infrastructures for wide area monitoring systems. , 2012, , .		3
111	The effect of parameter and measurement uncertainties on hybrid state estimation. , 2012, , .		15
112	Message from the chairpersons. , 2012, , .		0
113	A Comparison of Smart Grid Technologies and Progresses in Europe and the U.S.. IEEE Transactions on Industry Applications, 2012, 48, 1154-1162.	4.9	90
114	A new hybrid PLL for interconnecting Renewable Energy Systems to the grid. , 2012, , .		7
115	A real-time innovative scheme for power losses calculation. , 2012, , .		2
116	A GA-API Solution for the Economic Dispatch of Generation in Power System Operation. IEEE Transactions on Power Systems, 2012, 27, 233-242.	6.5	146
117	Hybrid Ant Colony-Genetic Algorithm (GA-API) for Global Continuous Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 234-245.	5.0	63
118	Electrical Power Systems Protection and Interdependencies with ICT. Lecture Notes in Computer Science, 2012, , 216-228.	1.3	2
119	Analysis of distribution grids: State estimation using model uncertainties. , 2011, , .		8
120	Enhancement of hybrid state estimation using pseudo flow measurements. , 2011, , .		32
121	Smart-grid technologies and progress in Europe and the USA. , 2011, , .		35
122	Nonlinear Estimation of Synchronous Machine Parameters Using Operating Data. IEEE Transactions on Energy Conversion, 2011, 26, 831-839.	5.2	59
123	On-line parameter estimation of saturated synchronous machines. , 2011, , .		5
124	A Constrained Formulation for Hybrid State Estimation. IEEE Transactions on Power Systems, 2011, 26, 1102-1109.	6.5	108
125	Message from the chairpersons. , 2010, , .		0
126	Online Monitoring of the Power Transfer in a DC Test Grid. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1104-1118.	4.7	21

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127	Intelligent control of grid connected unified doubly-fed induction generator. , 2010, , .		10
128	Inclusion of PMU current phasor measurements in a power system state estimator. IET Generation, Transmission and Distribution, 2010, 4, 1104.	2.5	173
129	Intelligent Control of Power Electronic Systems for Wind Turbines. Green Energy and Technology, 2010, , 255-295.	0.6	2
130	Experience with synchronous generator parameter identification using a Kalman filter. , 2010, , .		5
131	Synchronized measurements in power system operation: International trends and research. , 2010, , .		1
132	A comparative study of the methods of inclusion of PMU current phasor measurements in a hybrid state estimator. , 2010, , .		23
133	Intelligent Health Monitoring of Critical Infrastructure Systems. , 2010, , .		3
134	Heuristic solution for the nonconvex dispatch of generation in power systems with high wind power share. , 2009, , .		6
135	Development of a DC test network for monitoring power transfer. , 2009, , .		2
136	Uncertainty in Power System State Variables Obtained Through Synchronized Measurements. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2452-2458.	4.7	57
137	Placement of Synchronized Measurements for Power System Observability. IEEE Transactions on Power Delivery, 2009, 24, 12-19.	4.3	380
138	Measurements get together. IEEE Power and Energy Magazine, 2009, 7, 41-49.	1.6	115
139	PMU Measurement Uncertainty Considerations in WLS State Estimation. IEEE Transactions on Power Systems, 2009, 24, 1062-1071.	6.5	107
140	Synchronized measurements in power system operation: International practices and research issues. , 2009, , .		2
141	State estimation including synchronized measurements. , 2009, , .		23
142	Efficient hybrid optimization solution for the economic dispatch with nonsmooth cost function. , 2009, , .		8
143	Optimal Placement of Phasor Measurement Units for Power System Observability. IEEE Transactions on Power Systems, 2008, 23, 1433-1440.	6.5	437
144	Partial discharges and associated transients: the induced charge concept versus capacitive modeling. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1507-1516.	2.9	40

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145	Identification of the Standard Parameters of a Steam Turbine-Generator Using Wavelet Denoising. Electric Power Components and Systems, 2007, 35, 1145-1159.	1.8	2
146	A Next Generation Alarm Processing Algorithm Incorporating Recommendations and Decisions on Wide Area Control. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	14
147	A Comparison of Local vs. Sensory, Input-Driven, Wide Area Reactive Power Control. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	3
148	Measurement Uncertainty Considerations in Optimal Sensor Deployment for State Estimation. , 2007, , .		25
149	Short Term Electric Load Forecasting: A Tutorial. , 2007, , 391-418.		76
150	Calculating Confidence Intervals in Parameter Estimation: A Case Study. IEEE Transactions on Power Delivery, 2006, 21, 508-509.	4.3	17
151	Innovative Sensory Concepts for Power Systems. , 2006, , .		9
152	LpState Estimators for Power Systems. Electric Power Components and Systems, 2005, 33, 699-712.	1.8	6
153	State Estimation in Power Engineering Using the Huber Robust Regression Technique. IEEE Transactions on Power Systems, 2005, 20, 1183-1184.	6.5	13
154	Online Parameter Estimation of Round Rotor Synchronous Generators Including Magnetic Saturation. IEEE Transactions on Energy Conversion, 2005, 20, 529-537.	5.2	61
155	Modeling of Damping for Power System Stability Analysis. Electric Power Components and Systems, 2004, 32, 827-837.	1.8	9
156	Estimation of synchronous generator parameters using an observer for damper currents and a graphical user interface. Electric Power Systems Research, 2004, 69, 7-16.	3.6	17
157	An Online Portal for Collaborative Learning and Teaching for Power Engineering Education. IEEE Transactions on Power Systems, 2004, 19, 73-80.	6.5	12
158	On-Line Estimation of Synchronous Generator Parameters Using a Damper Current Observer and a Graphic User Interface. IEEE Transactions on Energy Conversion, 2004, 19, 499-507.	5.2	61
159	An observer for the estimation of synchronous generator damper currents for use in parameter identification. IEEE Transactions on Energy Conversion, 2003, 18, 175-177.	5.2	9