

Taha Selim Ustun

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3551286/taha-selim-ustun-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151
papers

2,605
citations

26
h-index

45
g-index

167
ext. papers

3,971
ext. citations

4.4
avg, IF

6.26
L-index

#	Paper	IF	Citations
151	Power Generation Control of Renewable Energy Based Hybrid Deregulated Power System. <i>Energies</i> , 2022 , 15, 517	3.1	4
150	Day-Ahead DSM-Integrated Hybrid-Power-Management-Incorporated CEED of Solar Thermal/Wind/Wave/BESS System Using HFPSO. <i>Sustainability</i> , 2022 , 14, 1169	3.6	1
149	IEC 61850 modeling of an AGC dispatching scheme for mitigation of short-term power flow variations. <i>Energy Reports</i> , 2022 , 8, 381-391	4.6	0
148	Analysis of GOA optimized two-stage controller for frequency regulation of grid integrated virtual power plant. <i>Energy Reports</i> , 2022 , 8, 493-500	4.6	2
147	Optimal Allocation of a Hybrid Photovoltaic Biogas Energy System Using Multi-Objective Feasibility Enhanced Particle Swarm Algorithm. <i>Sustainability</i> , 2022 , 14, 685	3.6	1
146	Active Power Control to Mitigate Frequency Deviations in Large-Scale Grid-Connected PV System Using Grid-Forming Single-Stage Inverters. <i>Energies</i> , 2022 , 15, 2035	3.1	4
145	Impact of Wind Farm Integration on LMP in Deregulated Energy Markets. <i>Sustainability</i> , 2022 , 14, 4354	3.6	0
144	A Risk Curtailment Strategy for Solar PV-Battery Integrated Competitive Power System. <i>Electronics (Switzerland)</i> , 2022 , 11, 1251	2.6	2
143	A Joint Scheduling Strategy for Wind and Solar Photovoltaic Systems to Grasp Imbalance Cost in Competitive Market. <i>Sustainability</i> , 2022 , 14, 5005	3.6	1
142	Cyberphysical testbed for Wide Area Measurement System employing IEC 61850 and IEEE C37.118 based communication. <i>Energy Reports</i> , 2022 , 8, 570-578	4.6	0
141	Techno-economic assessment and environmental analysis of an optimal hybrid system under novel demand response scheme for a remote region of India. <i>Energy Reports</i> , 2022 , 8, 284-291	4.6	0
140	Flywheel energy storage system based microgrid controller design and PHIL testing. <i>Energy Reports</i> , 2022 , 8, 470-475	4.6	0
139	An Economic Risk Analysis in Wind and Pumped Hydro Energy Storage Integrated Power System Using Meta-Heuristic Algorithm. <i>Sustainability</i> , 2021 , 13, 13542	3.6	4
138	Artificial Neural Networks Based Optimization Techniques: A Review. <i>Electronics (Switzerland)</i> , 2021 , 10, 2689	2.6	25
137	Simultaneous analysis of frequency and voltage control of the interconnected hybrid power system in presence of FACTS devices and demand response scheme. <i>Energy Reports</i> , 2021 , 7, 7445-7459	4.6	1
136	Optimal PI controller based PSO optimization for PV inverter using SPWM techniques. <i>Energy Reports</i> , 2021 , 8, 1003-1003	4.6	3
135	A Novel Fundamental Frequency Switching Operation for Conventional VSI to Enable Single-Stage High-Gain Boost Inversion with ANN Tuned QWS Controller. <i>Electronics (Switzerland)</i> , 2021 , 10, 2499	2.6	

134	Energy Management Scheduling for Microgrids in the Virtual Power Plant System Using Artificial Neural Networks. <i>Energies</i> , 2021 , 14, 6507	3.1	5
133	Social Welfare Maximization of Competitive Congested Power Market Considering Wind Farm and Pumped Hydroelectric Storage System. <i>Electronics (Switzerland)</i> , 2021 , 10, 2611	2.6	3
132	Fractional Order Fuzzy Based Virtual Inertia Controller Design for Frequency Stability in Isolated Hybrid Power Systems. <i>Energies</i> , 2021 , 14, 1634	3.1	2
131	Chaotic Evolutionary Programming for an Engineering Optimization Problem. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2717	2.6	2
130	Optimization of Two-Stage IPD-(1+I) Controllers for Frequency Regulation of Sustainable Energy Based Hybrid Microgrid Network. <i>Electronics (Switzerland)</i> , 2021 , 10, 919	2.6	2
129	IEC-61850-Based Communication for Integrated EV Management in Power Systems with Renewable Penetration. <i>Energies</i> , 2021 , 14, 2493	3.1	5
128	Design and Implementation of Maiden Dual-Level Controller for Ameliorating Frequency Control in a Hybrid Microgrid. <i>Energies</i> , 2021 , 14, 2418	3.1	3
127	A Critical Review of IEC 61850 Testing Tools. <i>Sustainability</i> , 2021 , 13, 6213	3.6	2
126	Enhancing Cybersecurity in Smart Grids: False Data Injection and Its Mitigation. <i>Energies</i> , 2021 , 14, 2657	3.1	5
125	Optimal VoltageFrequency Regulation in Distributed Sustainable Energy-Based Hybrid Microgrids with Integrated Resource Planning. <i>Energies</i> , 2021 , 14, 2735	3.1	13
124	Machine Learning-Based Intrusion Detection for Achieving Cybersecurity in Smart Grids Using IEC 61850 GOOSE Messages. <i>Symmetry</i> , 2021 , 13, 826	2.7	4
123	Voltage stability assessment of isolated hybrid dish-stirling solar thermal-diesel microgrid with STATCOM using mine blast algorithm. <i>Electric Power Systems Research</i> , 2021 , 196, 107239	3.5	5
122	Double stage controller optimization for load frequency stabilization in hybrid wind-ocean wave energy based maritime microgrid system. <i>Applied Energy</i> , 2021 , 282, 116171	10.7	21
121	Case Study of Grid-Connected Photovoltaic Power System Installed at Monthly Optimum Tilt Angles for Different Climatic Zones in India. <i>IEEE Access</i> , 2021 , 9, 60077-60088	3.5	3
120	Advanced Grid Integration Test Platform for Increased Distributed Renewable Energy Penetration in Smart Grids. <i>IEEE Access</i> , 2021 , 9, 34040-34053	3.5	10
119	A Survey of Authentication Techniques in Vehicular Ad-Hoc Networks. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2021 , 13, 39-52	2.6	8
118	Artificial Intelligence Based Intrusion Detection System for IEC 61850 Sampled Values Under Symmetric and Asymmetric Faults. <i>IEEE Access</i> , 2021 , 9, 56486-56495	3.5	4
117	Maiden Voltage Control Analysis of Hybrid Power System With Dynamic Voltage Restorer. <i>IEEE Access</i> , 2021 , 9, 60531-60542	3.5	4

116	A Security Mechanism for IEEE C37.118.2 PMU Communication. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
115	Performance Investigation of a Solar Photovoltaic/Diesel Generator Based Hybrid System with Cycle Charging Strategy Using BBO Algorithm. <i>Sustainability</i> , 2021 , 13, 8048	3.6	9
114	Aggregation of Radial Distribution System Bus with Volt-Var Control. <i>Energies</i> , 2021 , 14, 5390	3.1	1
113	IEC 61850 communication based dual stage load frequency controller for isolated hybrid microgrid. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 130, 106909	5.1	7
112	Initialization Vector for application of IEC 61850-90-5 security features on R-GOOSE and R-SV messages. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 132, 107189	5.1	1
111	A review on fractional order (FO) controllers optimization for load frequency stabilization in power networks. <i>Energy Reports</i> , 2021 , 7, 4009-4021	4.6	18
110	Isolated and Interconnected Multi-Area Hybrid Power Systems: A Review on Control Strategies. <i>Energies</i> , 2021 , 14, 8276	3.1	0
109	Performance Assessment of an Islanded Hybrid Power System with Different Storage Combinations Using an FPA-Tuned Two-Degree-of-Freedom (2DOF) Controller. <i>Energies</i> , 2020 , 13, 5610	3.1	10
108	IEC 61850 based substation automation system: A survey. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 120, 106008	5.1	25
107	A Review of Strategies to Increase PV Penetration Level in Smart Grids. <i>Energies</i> , 2020 , 13, 636	3.1	49
106	Cost Optimization of a Stand-Alone Hybrid Energy System with Fuel Cell and PV. <i>Energies</i> , 2020 , 13, 1295	3.1	25
105	State-of-the-art of controllers and soft computing techniques for regulated load frequency management of single/multi-area traditional and renewable energy based power systems. <i>Applied Energy</i> , 2020 , 266, 114858	10.7	45
104	IEC 61850-Based Communication Layer Modeling for Electric Vehicles: Electric Vehicle Charging and Discharging Processes Based on the International Electrotechnical Commission 61850 Standard and Its Extensions. <i>IEEE Industrial Electronics Magazine</i> , 2020 , 14, 4-14	6.2	9
103	IEC 62351-4 Security Implementations for IEC 61850 MMS Messages. <i>IEEE Access</i> , 2020 , 8, 123979-123985	3.5	6
102	Neuro-Fuzzy-Based Model Predictive Energy Management for Grid Connected Microgrids. <i>Electronics (Switzerland)</i> , 2020 , 9, 900	2.6	4
101	Implementing Secure Routable GOOSE and SV Messages Based on IEC 61850-90-5. <i>IEEE Access</i> , 2020 , 8, 26162-26171	3.5	13
100	IEC 61850 based energy management system using plug-in electric vehicles and distributed generators during emergencies. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 119, 105873	5.1	8
99	Secure Communication Modeling for Microgrid Energy Management System: Development and Application. <i>Energies</i> , 2020 , 13, 68	3.1	1

98	Microgrid Controller Testing Using Power Hardware-in-the-Loop. <i>Energies</i> , 2020 , 13, 2044	3.1	9
97	A Method for Achieving Confidentiality and Integrity in IEC 61850 GOOSE Messages. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 2565-2567	4.3	15
96	Smart Inverter Communication Model and Impact of Cybersecurity Attack 2020 ,		1
95	Developing Power Hardware-in-the-Loop Based Testing Environment for Volt-Var and Frequency-Watt Functions of 500 kW Photovoltaic Smart Inverter. <i>IEEE Access</i> , 2020 , 8, 224135-224144	3.5	3
94	Communication based Predictive Dynamic Stability Scheme in Microgrid with High Penetration of Distributed Energy Resources 2020 ,		1
93	Price Based Demand Response for Optimal Frequency Stabilization in ORC Solar Thermal Based Isolated Hybrid Microgrid under Salp Swarm Technique. <i>Electronics (Switzerland)</i> , 2020 , 9, 2209	2.6	7
92	A Review of IEC 62351 Security Mechanisms for IEC 61850 Message Exchanges. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 5643-5654	11.9	34
91	Optimal PV-INV Capacity Ratio for Residential Smart Inverters Operating Under Different Control Modes. <i>IEEE Access</i> , 2020 , 8, 116078-116089	3.5	3
90	Power Hardware in-the-Loop Testing to Analyze Fault Behavior of Smart Inverters in Distribution Networks. <i>Sustainability</i> , 2020 , 12, 9365	3.6	3
89	Performance Analysis of IEC 61850 Messages in LTE Communication for Reactive Power Management in Microgrids. <i>Energies</i> , 2020 , 13, 6011	3.1	2
88	Optimum Synthesis of a BOA Optimized Novel Dual-Stage PI (1 + ID) Controller for Frequency Response of a Microgrid. <i>Energies</i> , 2020 , 13, 3446	3.1	18
87	Advanced Laboratory Testing Methods Using Real-Time Simulation and Hardware-in-the-Loop Techniques: A Survey of Smart Grid International Research Facility Network Activities. <i>Energies</i> , 2020 , 13, 3267	3.1	17
86	IEC 61850 Modeling of UPFC and XMPP Communication for Power Management in Microgrids. <i>IEEE Access</i> , 2020 , 8, 141696-141704	3.5	8
85	Standardized Communication Model for Home Energy Management System. <i>IEEE Access</i> , 2020 , 8, 180067-180075	3.3	15
84	Active Power Management of Virtual Power Plant under Penetration of Central Receiver Solar Thermal-Wind Using Butterfly Optimization Technique. <i>Sustainability</i> , 2020 , 12, 6979	3.6	16
83	Using ID-Based Authentication and Key Agreement Mechanism for Securing Communication in Advanced Metering Infrastructure. <i>IEEE Access</i> , 2020 , 8, 210503-210512	3.5	6
82	A Novel SCL Configuration Method for Modeling Microgrids With IEC 61850. <i>IEEE Systems Journal</i> , 2020 , 14, 2676-2683	4.3	8
81	Dynamic protection of power systems with high penetration of renewables: A review of the traveling wave based fault location techniques. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 114, 105410	5.1	41

80	Optimal Energy Routing in Microgrids With IEC 61850 Based Energy Routers. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5161-5169	8.9	21
79	An Improved Security Scheme for IEC 61850 MMS Messages in Intelligent Substation Communication Networks. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 591-595	4	3
78	Design and Performance Analysis of a Stand-alone PV System with Hybrid Energy Storage for Rural India. <i>Electronics (Switzerland)</i> , 2019 , 8, 952	2.6	35
77	The Emerging Energy Internet: Architecture, Benefits, Challenges, and Future Prospects. <i>Electronics (Switzerland)</i> , 2019 , 8, 1037	2.6	24
76	Certificate Based Security Mechanisms in Vehicular Ad-Hoc Networks based on IEC 61850 and IEEE WAVE Standards. <i>Electronics (Switzerland)</i> , 2019 , 8, 96	2.6	24
75	Performance analysis of PV panels based on different technologies after two years of outdoor exposure in Fukushima, Japan. <i>Renewable Energy</i> , 2019 , 136, 159-178	8.1	35
74	Analysis and Implementation of Message Authentication Code (MAC) Algorithms for GOOSE Message Security. <i>IEEE Access</i> , 2019 , 7, 80980-80984	3.5	20
73	Automated Network Topology Extraction Based on Graph Theory for Distributed Microgrid Protection in Dynamic Power Systems. <i>Electronics (Switzerland)</i> , 2019 , 8, 655	2.6	4
72	Performance Evaluation and Analysis of IEC 62351-6 Probabilistic Signature Scheme for Securing GOOSE Messages. <i>IEEE Access</i> , 2019 , 7, 32343-32351	3.5	27
71	IEC 61850-Based Communication Modeling of EV Charge-Discharge Management for Maximum PV Generation. <i>IEEE Access</i> , 2019 , 7, 4219-4231	3.5	30
70	Data Standardization for Smart Infrastructure in First-Access Electricity Systems. <i>Proceedings of the IEEE</i> , 2019 , 107, 1790-1802	14.3	9
69	Virtual Power Plant Management in Smart Grids with XMPP Based IEC 61850 Communication. <i>Energies</i> , 2019 , 12, 2398	3.1	20
68	S-GoSV: Framework for Generating Secure IEC 61850 GOOSE and Sample Value Messages. <i>Energies</i> , 2019 , 12, 2536	3.1	14
67	Aggregate Modeling of Distribution System with Multiple Smart Inverters 2019 ,		2
66	A Novel Scheme for Performance Evaluation of an IEC 61850-Based Active Distribution System Substation. <i>IEEE Access</i> , 2019 , 7, 123893-123902	3.5	10
65	A Novel Approach for Mitigation of Replay and Masquerade Attacks in Smartgrids Using IEC 61850 Standard. <i>IEEE Access</i> , 2019 , 7, 156044-156053	3.5	16
64	A Review of Cybersecurity Issues in Smartgrid Communication Networks 2019 ,		10
63	Implementation and Performance Evaluation of IEC 61850 based Home Energy Management System 2019 ,		1

62	Integrated Power Hardware-in-the-Loop and Lab Testing for Microgrid Controller 2019 ,			1
61	Cybersecurity Vulnerabilities of Smart Inverters and Their Impacts on Power System Operation 2019 ,			7
60	Impact of Smart Inverters on Feeder Hosting Capacity of Distribution Networks. <i>IEEE Access</i> , 2019 , 7, 163526-163536	3.5		13
59	Modeling Smart Inverters for Hardware-in-the-loop tests in Low-Voltage Distribution Systems 2019 ,			1
58	Implementation of IEC 61850 Based Integrated EV Charging Management in Smart Grids 2019 ,			1
57	Comparative Review of Energy Storage Systems, Their Roles, and Impacts on Future Power Systems. <i>IEEE Access</i> , 2019 , 7, 4555-4585	3.5		146
56	Lessons learned from rural electrification initiatives in developing countries: Insights for technical, social, financial and public policy aspects. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 102, 35-53	16.2		52
55	Analysis of Smart Inverter Impact on the Distribution Network Operation. <i>IEEE Access</i> , 2019 , 7, 9790-9804	3.5		33
54	Communication Modeling of Solar Home System and Smart Meter in Smart Grids. <i>IEEE Access</i> , 2018 , 6, 16985-16996	3.5		34
53	Hardware-in-the-loop simulation based testing of power conditioning systems 2018 ,			8
52	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 135-142	4.3		37
51	Modelling and performance of an automated small hybrid plant. <i>African Journal of Science, Technology, Innovation and Development</i> , 2018 , 10, 1-7	0.7		2
50	Composition, placement, and economics of rural microgrids for ensuring sustainable development. <i>Sustainable Energy, Grids and Networks</i> , 2018 , 13, 1-18	3.6		37
49	MPTCP based mitigation of Denial of Service (DoS) Attack in PMU Communication Networks 2018 ,			7
48	IEC 61850 Communication Assisted Synchronization Strategy for Microgrids 2018 ,			5
47	Certificate Based Authentication Mechanism for PMU Communication Networks Based on IEC 61850-90-5. <i>Electronics (Switzerland)</i> , 2018 , 7, 370	2.6		21
46	IEEE 1609 WAVE and IEC 61850 Standard Communication Based Integrated EV Charging Management in Smart Grids. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7690-7697	6.8		38
45	IEC 61850 and XMPP Communication Based Energy Management in Microgrids Considering Electric Vehicles. <i>IEEE Access</i> , 2018 , 6, 35657-35668	3.5		31

44	A survey on behind the meter energy management systems in smart grid. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 72, 1208-1232	16.2	58
43	Mini-grid policy directions for decentralized smart energy models in Sub-Saharan Africa 2017 ,		3
42	Using input-output correlations and a modified slide attack to compromise IEC 62055-41 2017 ,		3
41	Performance evaluation of electric vehicle ad-hoc network technologies for charging management 2017 ,		3
40	Electric bus migration in Bengaluru with dynamic charging technologies. <i>AIMS Energy</i> , 2017 , 5, 944-959	1.8	6
39	Smart Inverter Functionality Testing for Battery Energy Storage Systems. <i>Smart Grid and Renewable Energy</i> , 2017 , 08, 337-350	0.4	16
38	Experiences and Applications of Electric and Plug-In Hybrid Vehicles in Power System Networks 2017 , 243-280		1
37	Integration of communication standards in Electrical Vehicle Ad-Hoc Networks for smartgrid support 2016 ,		3
36	Feasibility of microgrid optimization and grid extension for rural electrification 2016 ,		4
35	Wireless power grid: Leapfrogging in power infrastructure of developing countries 2016 ,		2
34	Stochastic Simulator for Smart Microgrid Planning 2016 ,		4
33	The importance of microgrids & renewable energy in meeting energy needs of the Brazilian Amazon 2016 ,		5
32	Interoperability and interchangeability for microgrid protection systems using IEC 61850 standard 2016 ,		9
31	Using IEC 61850 and IEEE WAVE standards in ad-hoc networks for electric vehicle charging management 2016 ,		12
30	Novel business models and policy directions based on SE4ALL global framework for minigrids 2016 ,		6
29	Smart microgrid operation simulator for management and electrification planning 2016 ,		12
28	Scaling renewable energy based microgrids in underserved communities: Latin America, South Asia, and Sub-Saharan Africa 2016 ,		19
27	The case for microgrids in electrifying Sub-Saharan Africa 2015 ,		20

26	The role of microgrids & renewable energy in addressing Sub-Saharan Africa's current and future energy needs 2015 ,		20
25	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2493-2500	10.7	58
24	Enabling private sector investment in microgrid-based rural electrification in developing countries: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 1268-1281	16.2	96
23	Computer-based smart energy management system for rural health centers 2015 ,		3
22	Design of a generic microgrid testbed with novel control and smart technologies 2015 ,		1
21	Optimizing energy use of SmartFarms with smartgrid integration 2015 ,		1
20	Energizing microgrids with electric vehicles during emergencies [Natural disasters, sabotage and warfare 2015 ,		6
19	Integration of Precision Agriculture and SmartGrid technologies for sustainable development 2015 ,		6
18	Grid planning: Agent based approach for early notification of air conditioning loads to smart grid 2015 ,		1
17	2014 ,		9
16	Modeling and simulation of a microgrid protection system with central protection unit 2013 ,		4
15	An adaptive microgrid protection scheme based on a wide-area smart grid communications network 2013 ,		21
14	Differential protection of microgrids with central protection unit support 2013 ,		23
13	Implementing Vehicle-to-Grid (V2G) Technology With IEC 61850-7-420. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1180-1187	10.7	69
12	Electric Vehicle Potential in Australia: Its Impact on Smartgrids. <i>IEEE Industrial Electronics Magazine</i> , 2013 , 7, 15-25	6.2	55
11	Fault current coefficient and time delay assignment for microgrid protection system with central protection unit. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 598-606	7	110
10	Interoperability and interchangeability considerations in microgrids employing IEC61850 standard 2013 ,		10
9	Differential protection of microgrids over a WiMAX network 2013 ,		4

8	Modeling of a Centralized Microgrid Protection System and Distributed Energy Resources According to IEC 61850-7-420. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1560-1567	7	196
7	Simulation of communication infrastructure of a centralized microgrid protection system based on IEC 61850-7-420 2012 ,		19
6	Extending IEC 61850-7-420 for distributed generators with fault current limiters 2011 ,		13
5	A central microgrid protection system for networks with fault current limiters 2011 ,		27
4	A microgrid protection system with central protection unit and extensive communication 2011 ,		28
3	Recent developments in microgrids and example cases around the world: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 4030-4041	16.2	233
2	Implementation of Dijkstra's algorithm in a dynamic microgrid for relay hierarchy detection 2011 ,		14
1	Effects of a Static Synchronous Series Compensator (SSSC) Based on a Soft Switching 48-Pulse PWM Inverter on the Power Demand from the Grid. <i>Journal of Power Electronics</i> , 2010 , 10, 85-90	0.9	26