

# Antans Sauhats

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

477  
citations

1684188

5  
h-index

1588992

8  
g-index

89  
all docs

89  
docs citations

89  
times ranked

216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charging and Discharging Scheduling for Electrical Vehicles Using a Shapley-Value Approach. <i>Energies</i> , 2020, 13, 1160.	3.1	23
2	Analysis and prediction of electricity consumption using smart meter data. , 2015, , .		19
3	Statistical algorithms for fault location on power transmission lines. , 2005, , .		17
4	Formulation of the objective function for economic dispatch optimisation of steam cycle CHP plants. , 2005, , .		16
5	Modelling residential heat demand supplied by a local smart electric thermal storage system. , 2016, , .		16
6	ANN-based forecasting of hydropower reservoir inflow. , 2016, , .		14
7	Combined heat and power plants towards efficient and flexible operation. , 2016, , .		14
8	Statistical Algorithm for Power Transmission Lines Distance Protection. , 2006, , .		13
9	Two-terminal out-of-step protection for multi-machine grids using synchronised measurements. , 2015, , .		13
10	A multi-objective stochastic approach to hydroelectric power generation scheduling. , 2016, , .		13
11	Angle Control-Based Multi-Terminal Out-of-Step Protection System. <i>Energies</i> , 2017, 10, 308.	3.1	13
12	Economic Viability of Energy Communities versus Distributed Prosumers. <i>Sustainability</i> , 2022, 14, 4634.	3.2	13
13	Climate conditions impact on the permissible load current of the transmission line. , 2011, , .		12
14	Towards optimization of combined cycle power plants' start-ups and shut-down. , 2016, , .		12
15	District heating demand short-term forecasting. , 2017, , .		11
16	District Heating Technologies: Is it Chance for CHP Plants in Variable and Competitive Operation Conditions?. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 35-42.	4.9	11
17	Enhancing Power System Frequency with a Novel Load Shedding Method Including Monitoring of Synchronous Condensersâ€™ Power Injections. <i>Energies</i> , 2021, 14, 1490.	3.1	10
18	A stochastic approach to hydroelectric power generation planning in an electricity market. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
19	Cost-Benefit Analysis of Li-Ion Batteries in a Distribution Network. , 2018, , .		9
20	Stochastic optimization of power line design. , 2015, , .		8
21	ANN-based city heat demand forecast. , 2017, , .		8
22	Stochastic Model for Profitability Evaluation of Demand Response by Electric Thermal Storage. , 2018, , .		8
23	A Comparative Analysis of Supporting Policies for Solar PV systems in the Baltic Countries. , 2019, , .		8
24	Modelling heat demand in buildings with an experimental approach. , 2017, , .		7
25	Long-Term Price Forecasting for the Cost-Benefit Analysis of Power Equipment. , 2018, , .		7
26	On Co-generation Strategies in the Cities of North-Eastern Europe. , 2007, , .		6
27	Market and environmental dispatch of combined cycle CHP plant. , 2009, , .		6
28	Testing thermal rating methods for the overhead high voltage line. , 2013, , .		6
29	Case study - Assessing Economic Potential for Demand Response in Baltic Balancing Market. , 2018, , .		6
30	Small-Scale Renewable Generation Support in Latvia. , 2018, , .		6
31	Selection of the initial state and duration of the planning period in the tasks of managing energy storage systems. , 2020, , .		6
32	Approach for energy supply system planning based on cooperative game theory. , 2008, , .		5
33	Distance protection algorithm for power transmission lines based on Monte-Carlo method. , 2009, , .		5
34	Out-of-step automation device model validation methodology. , 2011, , .		5
35	The stochastic approach for conductor selection in transmission line development projects. , 2014, , .		5
36	Overhead power line design in market conditions. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
37	Multi-terminal out-of-step protection system. , 2016, , .		5
38	Impact of smart electric thermal storage on transmission grid limitations. , 2017, , .		5
39	Mathematical description of combined cycle gas turbine power plants' transient modes. , 2017, , .		5
40	Resilience of the Baltic Power System When Operating in Island Mode. IEEE Transactions on Industry Applications, 2022, 58, 3175-3183.	4.9	5
41	Protection scheme against out-of-step condition based on synchronized measurements. , 2014, , .		4
42	Out-of-step protection using equal area criterion in time domain. , 2016, , .		4
43	Short-term optimization of storage power plant operation under market conditions. , 2016, , .		4
44	Cost â€” Benefit analysis of electric boiler at combined heat and power plants. , 2017, , .		4
45	Evaluation of Battery Energy Storage Systems in Distribution Grid. , 2018, , .		4
46	Billing System Impact on the Deployment of Electric Vehicles. , 2020, , .		4
47	Interconnection of power systems with different under-frequency load shedding schemes. , 2011, , .		3
48	Coexistence of different load shedding algorithms in interconnected power system. , 2013, , .		3
49	University impact on power supply economy, reliability and sustainability enhancement decreasing climate changes. , 2015, , .		3
50	The optimization capabilities of combined solar/hydropower plant operation. , 2016, , .		3
51	Solving district heating optimization problems in the market conditions. , 2016, , .		3
52	Cost â€” benefit analysis of CHP plants taking into account air cooling technologies. , 2017, , .		3
53	Estimating the Costs of Operating Reserve Provision by Poundage Hydroelectric Power Plants. , 2018, , .		3
54	Avoided Costs-Based Comparison of Consumer-Scale Energy Storage Control Approaches. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
55	Harmonization of Imbalance Settlement Period Across Europe: the Curious Case of Baltic Energy Markets. , 2019, , .		3
56	Analysis of the Potential Benefits from Participation in Explicit and Implicit Demand Response. , 2019, , .		3
57	Profitability Study of Floating PV and Storage Pumped Hydropower Plant. , 2020, , .		3
58	Measuring the impact of demand response services on electricity prices in Latvian electricity market. , 2020, , .		3
59	Resilience of the Baltic power system when operating in island mode. , 2020, , .		3
60	The assessment of the impact of electric vehicles on the power balance of the Baltic energy system. , 2021, , .		3
61	Enhancing Fault Location Performance on Power Transmission Lines. , 2007, , .		2
62	Small hydropower plants operations optimization in the market conditions. , 2014, , .		2
63	Isolines of characteristic polynomial for power system static stability analysis. , 2015, , .		2
64	Towards smart control and optimization of the small-scale power system. , 2015, , .		2
65	Implementing energy efficiency and demand-side management in glasswork company. , 2017, , .		2
66	Detection and Management of Large Scale Disturbances in Power System. Lecture Notes in Computer Science, 2016, , 147-152.	1.3	2
67	Loss-of-synchronism detection automatics for the networks with distributed generation. , 2005, , .		1
68	Localization of the roots of the characteristic polynomial (CP) and isolines to analyze static stability. , 2014, , .		1
69	Power plants feasibility studies supported by stochastic programming software. , 2014, , .		1
70	Probabilistic method for selection of power line wire type and cross-section. , 2014, , .		1
71	Modeling of water utilization in hydroelectric power plants on the Daugava River. , 2015, , .		1
72	Biogas power plant operation considering limited biofuel resources. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
73	The limiting factors and supporting schemes influence on small-scale power plant work. , 2016, , .		1
74	The Assessment of Wind Speed Distortions in a Simulated Flow Around a Lattice Cellular Communication Mast. , 2017, , .		1
75	The costs of enviromental limitations of HPPs in cascade. , 2017, , .		1
76	Towards Optimal Activation of Balancing Energy to Minimize Regulation from Neighboring Control Areas. , 2018, , .		1
77	Short-Term Forecasting of District Heating Demand. , 2018, , .		1
78	Controlled Load as One of the Ways of Providing Savings in the Electricity Market. , 2018, , .		1
79	The Choice of the Number of Charge/Discharge Cycles for a Battery Energy Storage System. , 2019, , .		1
80	The Small Hydropower Plant Income Maximization Using Games Theory. International Journal of Economics and Statistics, 2021, 9, 14-19.	0.1	1
81	Estimation of the Distributed Generation Impacts on the Angle Stability of the Two-Machine Scheme. , 2007, , .		0
82	Designing a transmission line using Pareto approach. , 2013, , .		0
83	Spinning reserve allocation using game theory. , 2013, , .		0
84	Power reserve distribution using cooperative game theory. , 2014, , .		0
85	The power station regime management under uncertainty. , 2014, , .		0
86	Impact of the limitations of transmission line capacity on pricing. , 2015, , .		0
87	A stochastic approach to the feasibility study for overhead power lines. , 2015, , .		0
88	Power system equivalent circuit for controlled load analysis. , 2017, , .		0
89	Power System Simulation Laboratory as a Modern Educational Tool. International Journal of Systems Applications Engineering & Development, 2021, 15, 186-193.	0.1	0