

# 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	Economic Viability of Energy Communities versus Distributed Prosumers. Sustainability, 2022, 14, 4634.	3.2	13
2	Resilience of the Baltic Power System When Operating in Island Mode. IEEE Transactions on Industry Applications, 2022, 58, 3175-3183.	4.9	5
3	The Small Hydropower Plant Income Maximization Using Games Theory. International Journal of Economics and Statistics, 2021, 9, 14-19.	0.1	1
4	Enhancing Power System Frequency with a Novel Load Shedding Method Including Monitoring of Synchronous Condensersâ€™ Power Injections. Energies, 2021, 14, 1490.	3.1	10
5	Power System Simulation Laboratory as a Modern Educational Tool. International Journal of Systems Applications Engineering & Development, 2021, 15, 186-193.	0.1	0
6	The assessment of the impact of electric vehicles on the power balance of the Baltic energy system. , 2021, , .		3
7	Billing System Impact on the Deployment of Electric Vehicles. , 2020, , .		4
8	Profitability Study of Floating PV and Storage Pumped Hydropower Plant. , 2020, , .		3
9	Charging and Discharging Scheduling for Electrical Vehicles Using a Shapley-Value Approach. Energies, 2020, 13, 1160.	3.1	23
10	Measuring the impact of demand response services on electricity prices in Latvian electricity market. , 2020, , .		3
11	Selection of the initial state and duration of the planning period in the tasks of managing energy storage systems. , 2020, , .		6
12	Resilience of the Baltic power system when operating in island mode. , 2020, , .		3
13	A Comparative Analysis of Supporting Policies for Solar PV systems in the Baltic Countries. , 2019, , .		8
14	Avoided Costs-Based Comparison of Consumer-Scale Energy Storage Control Approaches. , 2019, , .		3
15	The Choice of the Number of Charge/Discharge Cycles for a Battery Energy Storage System. , 2019, , .		1
16	Harmonization of Imbalance Settlement Period Across Europe: the Curious Case of Baltic Energy Markets. , 2019, , .		3
17	Analysis of the Potential Benefits from Participation in Explicit and Implicit Demand Response. , 2019, , .		3
18	District Heating Technologies: Is it Chance for CHP Plants in Variable and Competitive Operation Conditions?. IEEE Transactions on Industry Applications, 2019, 55, 35-42.	4.9	11

#	ARTICLE	IF	CITATIONS
19	Stochastic Model for Profitability Evaluation of Demand Response by Electric Thermal Storage. , 2018, , .		8
20	Case study - Assessing Economic Potential for Demand Response in Baltic Balancing Market. , 2018, , .		6
21	Long-Term Price Forecasting for the Cost-Benefit Analysis of Power Equipment. , 2018, , .		7
22	Small-Scale Renewable Generation Support in Latvia. , 2018, , .		6
23	Towards Optimal Activation of Balancing Energy to Minimize Regulation from Neighboring Control Areas. , 2018, , .		1
24	Cost-Benefit Analysis of Li-Ion Batteries in a Distribution Network. , 2018, , .		9
25	Short-Term Forecasting of District Heating Demand. , 2018, , .		1
26	Evaluation of Battery Energy Storage Systems in Distribution Grid. , 2018, , .		4
27	Controlled Load as One of the Ways of Providing Savings in the Electricity Market. , 2018, , .		1
28	Estimating the Costs of Operating Reserve Provision by Poundage Hydroelectric Power Plants. , 2018, , .		3
29	Impact of smart electric thermal storage on transmission grid limitations. , 2017, , .		5
30	Mathematical description of combined cycle gas turbine power plants' transient modes. , 2017, , .		5
31	Modelling heat demand in buildings with an experimental approach. , 2017, , .		7
32	ANN-based city heat demand forecast. , 2017, , .		8
33	Cost " benefit analysis of CHP plants taking into account air cooling technologies. , 2017, , .		3
34	Cost " Benefit analysis of electric boiler at combined heat and power plants. , 2017, , .		4
35	Power system equivalent circuit for controlled load analysis. , 2017, , .		0
36	Implementing energy efficiency and demand-side management in glasswork company. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
37	District heating demand short-term forecasting. , 2017, , .		11
38	The Assessment of Wind Speed Distortions in a Simulated Flow Around a Lattice Cellular Communication Mast. , 2017, , .		1
39	Angle Control-Based Multi-Terminal Out-of-Step Protection System. Energies, 2017, 10, 308.	3.1	13
40	The costs of enviromental limitations of HPPs in cascade. , 2017, , .		1
41	Out-of-step protection using equal area criterion in time domain. , 2016, , .		4
42	ANN-based forecasting of hydropower reservoir inflow. , 2016, , .		14
43	The optimization capabilities of combined solar/hydropower plant operation. , 2016, , .		3
44	Towards optimization of combined cycle power plants' start-ups and shut-down. , 2016, , .		12
45	Modelling residential heat demand supplied by a local smart electric thermal storage system. , 2016, , .		16
46	Solving district heating optimization problems in the market conditions. , 2016, , .		3
47	Short-term optimization of storage power plant operation under market conditions. , 2016, , .		4
48	Combined heat and power plants towards efficient and flexible operation. , 2016, , .		14
49	The limiting factors and supporting schemes influence on small-scale power plant work. , 2016, , .		1
50	Multi-terminal out-of-step protection system. , 2016, , .		5
51	A multi-objective stochastic approach to hydroelectric power generation scheduling. , 2016, , .		13
52	Detection and Management of Large Scale Disturbances in Power System. Lecture Notes in Computer Science, 2016, , 147-152.	1.3	2
53	Impact of the limitations of transmission line capacity on pricing. , 2015, , .		0
54	University impact on power supply economy, reliability and sustainability enhancement decreasing climate changes. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
55	Modeling of water utilization in hydroelectric power plants on the Daugava River. , 2015, , .		1
56	Two-terminal out-of-step protection for multi-machine grids using synchronised measurements. , 2015, , .		13
57	Isolines of characteristic polynomial for power system static stability analysis. , 2015, , .		2
58	Analysis and prediction of electricity consumption using smart meter data. , 2015, , .		19
59	Towards smart control and optimization of the small-scale power system. , 2015, , .		2
60	A stochastic approach to hydroelectric power generation planning in an electricity market. , 2015, , .		9
61	Overhead power line design in market conditions. , 2015, , .		5
62	Biogas power plant operation considering limited biofuel resources. , 2015, , .		1
63	A stochastic approach to the feasibility study for overhead power lines. , 2015, , .		0
64	Stochastic optimization of power line design. , 2015, , .		8
65	Localization of the roots of the characteristic polynomial (CP) and isolines to analyze static stability. , 2014, , .		1
66	Power reserve distribution using cooperative game theory. , 2014, , .		0
67	Protection scheme against out-of-step condition based on synchronized measurements. , 2014, , .		4
68	The power station regime management under uncertainty. , 2014, , .		0
69	Small hydropower plants operations optimization in the market conditions. , 2014, , .		2
70	The stochastic approach for conductor selection in transmission line development projects. , 2014, , .		5
71	Power plants feasibility studies supported by stochastic programming software. , 2014, , .		1
72	Probabilistic method for selection of power line wire type and cross-section. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
73	Designing a transmission line using Pareto approach. , 2013, , .		0
74	Coexistence of different load shedding algorithms in interconnected power system. , 2013, , .		3
75	Testing thermal rating methods for the overhead high voltage line. , 2013, , .		6
76	Spinning reserve allocation using game theory. , 2013, , .		0
77	Out-of-step automation device model validation methodology. , 2011, , .		5
78	Climate conditions impact on the permissible load current of the transmission line. , 2011, , .		12
79	Interconnection of power systems with different under-frequency load shedding schemes. , 2011, , .		3
80	Market and environmental dispatch of combined cycle CHP plant. , 2009, , .		6
81	Distance protection algorithm for power transmission lines based on Monte-Carlo method. , 2009, , .		5
82	Approach for energy supply system planning based on cooperative game theory. , 2008, , .		5
83	Enhancing Fault Location Performance on Power Transmission Lines. , 2007, , .		2
84	Estimation of the Distributed Generation Impacts on the Angle Stability of the Two-Machine Scheme. , 2007, , .		0
85	On Co-generation Strategies in the Cities of North-Eastern Europe. , 2007, , .		6
86	Statistical Algorithm for Power Transmission Lines Distance Protection. , 2006, , .		13
87	Statistical algorithms for fault location on power transmission lines. , 2005, , .		17
88	Loss-of-synchronism detection automatics for the networks with distributed generation. , 2005, , .		1
89	Formulation of the objective function for economic dispatch optimisation of steam cycle CHP plants. , 2005, , .		16