

# Sheng Chen

## List of Publications by Year in descending order

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85  
papers

2,143  
citations

293460

24  
h-index

274796

44  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1787  
citing authors

#	ARTICLE	IF	CITATIONS
1	Security-Constrained Optimal Traffic-Power Flow With Adaptive Convex Relaxation and Contingency Filtering. IEEE Transactions on Transportation Electrification, 2023, 9, 1605-1617.	5.3	4
2	Asynchronous and Adaptive State Estimation of Integrated Electricity-Gas Energy Systems. IEEE Internet of Things Journal, 2023, 10, 7636-7644.	5.5	4
3	Coordinating Urban Power-Traffic Networks: A Subsidy-Based Nash-Stackelberg-Nash Game Model. IEEE Transactions on Industrial Informatics, 2023, 19, 1778-1790.	7.2	11
4	Gas-Power Coordination: From Day-Ahead Scheduling to Actual Operation. IEEE Transactions on Power Systems, 2022, 37, 1532-1542.	4.6	21
5	Comprehensive Hydrodynamic Fitness of an Estuary Channel and the Effects of a Water Diversion Inflow. Estuaries and Coasts, 2022, 45, 382-392.	1.0	4
6	Power-Transportation Coordination: Toward a Hybrid Economic-Emission Dispatch Model. IEEE Transactions on Power Systems, 2022, 37, 3969-3981.	4.6	18
7	Strategic Investment in Power and Heat Markets: A Nash-Cournot Equilibrium Model. IEEE Transactions on Industrial Informatics, 2022, 18, 6057-6067.	7.2	3
8	Study on Joint Protection of Air Tank and Air Valve in Long-Distance Water Supply System. Journal of Pressure Vessel Technology, Transactions of the ASME, 2022, 144, .	0.4	3
9	Nash-Cournot power market model with a high penetration of prosumers: A distributionally robust optimization approach. Journal of Cleaner Production, 2022, , 131565.	4.6	2
10	Experimental study on pressure characteristics of direct water hammer in the viscoelastic pipeline. Journal of Water Supply: Research and Technology - AQUA, 2022, 71, 563-576.	0.6	3
11	Bidding strategy for a prosumer aggregator with stochastic renewable energy production in energy and reserve markets. Renewable Energy, 2022, 191, 278-290.	4.3	15
12	Day-Ahead Operation of an Urban Energy System Considering Traffic Flows and Peak Shaving. Frontiers in Energy Research, 2022, 10, .	1.2	1
13	A multi-stage planning model for transitioning to low-carbon integrated electric power and natural gas systems. Energy, 2022, 254, 124361.	4.5	14
14	Multistage Robust Look-Ahead Unit Commitment with Probabilistic Forecasting in Multi-Carrier Energy Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 70-82.	5.9	31
15	Integrated demand response for congestion alleviation in coupled power and transportation networks. Applied Energy, 2021, 283, 116206.	5.1	22
16	Multi-stage risk-averse operation of integrated electric power and natural gas systems. International Journal of Electrical Power and Energy Systems, 2021, 126, 106614.	3.3	8
17	Operational Stability of a Hydropower Plant With a Pipe-Shaped Air-Cushion Surge Chamber. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.4	1
18	Optimal Location of Energy Dissipation Box in Long Distance and High Drop Gravitational Water Supply System. Water (Switzerland), 2021, 13, 461.	1.2	1

#	ARTICLE	IF	CITATIONS
19	Valve closure based on pump runaway characteristics in long distance pressurized systems. Journal of Water Supply: Research and Technology - AQUA, 2021, 70, 493-506.	0.6	1
20	Research on Security Region of AC/DC Hybrid Active Distribution Network. , 2021, , .		0
21	Power and Traffic Nexus: From Perspective of Power Transmission Network and Electrified Highway Network. IEEE Transactions on Transportation Electrification, 2021, 7, 566-577.	5.3	21
22	Distributionally Robust Resilient Operation of Integrated Energy Systems Using Moment and Wasserstein Metric for Contingencies. IEEE Transactions on Power Systems, 2021, 36, 3574-3584.	4.6	45
23	Distributionally robust day-ahead operation of power systems with two-stage gas contracting. Energy, 2021, 231, 120840.	4.5	13
24	Conjectural-Variations Equilibria in Electricity, Natural-Gas, and Carbon-Emission Markets. IEEE Transactions on Power Systems, 2021, 36, 4161-4171.	4.6	38
25	Investment equilibrium of an integrated multi-stakeholder electricity-gas-hydrogen system. Renewable and Sustainable Energy Reviews, 2021, 150, 111407.	8.2	11
26	Formula for determining the size of the air tank in the long-distance water supply system. Journal of Water Supply: Research and Technology - AQUA, 2021, 70, 30-40.	0.6	4
27	Study on impedance size optimization of a one-way surge tank in a long-distance water supply system. Water Science and Technology: Water Supply, 2021, 21, 868-877.	1.0	7
28	Research on Risk-based Control Strategy for Power Grid Operation. , 2021, , .		1
29	Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. IEEE Transactions on Power Systems, 2020, 35, 662-671.	4.6	35
30	Corrective Security-Constrained Optimal Power and Gas Flow With Binding Contingency Identification. IEEE Transactions on Sustainable Energy, 2020, 11, 1033-1042.	5.9	19
31	Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. IEEE Transactions on Power Systems, 2020, 35, 2155-2166.	4.6	73
32	Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. IEEE Transactions on Smart Grid, 2020, 11, 1854-1865.	6.2	79
33	Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. IEEE Transactions on Power Systems, 2020, 35, 1956-1966.	4.6	43
34	Application of functional deep belief network for estimating daily global solar radiation: A case study in China. Energy, 2020, 191, 116502.	4.5	78
35	Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. IEEE Transactions on Power Systems, 2020, 35, 2388-2398.	4.6	52
36	Operations and Long-Term Expansion Planning of Natural-Gas and Power Systems: A Market Perspective. Proceedings of the IEEE, 2020, 108, 1541-1557.	16.4	21

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37	A conditional value-at-risk-based dispatch approach for the energy management of smart buildings with HVAC systems. <i>Electric Power Systems Research</i> , 2020, 188, 106535.	2.1	22
38	Effect of two types of irrigation on growth, yield and water productivity of maize under different irrigation treatments in an arid environment. <i>Irrigation and Drainage</i> , 2020, 69, 732-742.	0.8	10
39	Strategic-Agent Equilibria in the Operation of Natural Gas and Power Markets. <i>Energies</i> , 2020, 13, 868.	1.6	4
40	Mathematical Model of Small-Volume Air Vessel Based on Real Gas Equation. <i>Water (Switzerland)</i> , 2020, 12, 530.	1.2	3
41	Dynamic pricing in electricity and natural gas distribution networks: An EPEC model. <i>Energy</i> , 2020, 207, 118138.	4.5	27
42	Rapid energy flow calculation method for integrated electrical and thermal systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 123, 106317.	3.3	9
43	Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 2736-2747.	4.6	18
44	A Novel Fault Location Method for Distribution Networks Based on Transient Energy Relative Entropy of FDM Transform. , 2020, , .		0
45	EV Charging-Driving Navigation in Electrified Highway Network. , 2020, , .		4
46	Influence Mechanism of Geometric Characteristics of Water Conveyance System on Extreme Water Hammer during Load Rejection in Pumped Storage Plants. <i>Energies</i> , 2019, 12, 2854.	1.6	9
47	Impact of Tail Water Fluctuation on Turbine Start-Up and Optimized Regulation. <i>Energies</i> , 2019, 12, 2883.	1.6	5
48	Effects of temperature-control curtain on algae biomass and dissolved oxygen in a large stratified reservoir: Sanbanxi Reservoir case study. <i>Journal of Environmental Management</i> , 2019, 248, 109250.	3.8	36
49	Water hammer protective performance of a spherical air vessel caused by a pump trip. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1862-1869.	1.0	12
50	Incentive-Compatible Market Clearing for a Two-Stage Integrated Electricity-Gas-Heat Market. <i>IEEE Access</i> , 2019, 7, 120984-120996.	2.6	11
51	A Robust State Estimator for Integrated Electrical and Heating Networks. <i>IEEE Access</i> , 2019, 7, 109990-110001.	2.6	17
52	Impact of intra-annual runoff uniformity and global warming on the thermal regime of a large reservoir. <i>Science of the Total Environment</i> , 2019, 658, 1085-1097.	3.9	27
53	Research on Robust Day-Ahead Dispatch Considering Primary Frequency Response of Wind Turbine. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1784.	1.3	2
54	Stochastic Adaptive Robust Dispatch for Virtual Power Plants Using the Binding Scenario Identification Approach. <i>Energies</i> , 2019, 12, 1918.	1.6	14

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55	Two-Stage Integrated Electricity and Heat Market Clearing With Energy Stations. IEEE Access, 2019, 7, 44928-44938.	2.6	24
56	Representing ZIP loads in convex relaxations of optimal power flow problems. International Journal of Electrical Power and Energy Systems, 2019, 110, 372-385.	3.3	9
57	Unit Commitment With an Enhanced Natural Gas-Flow Model. IEEE Transactions on Power Systems, 2019, 34, 3729-3738.	4.6	76
58	Four-level robust model for a virtual power plant in energy and reserve markets. IET Generation, Transmission and Distribution, 2019, 13, 2036-2043.	1.4	20
59	A Linear Chance Constrained Model for a Virtual Power Plant in Day-ahead, Real-time and Spinning Reserve Markets. , 2019, , .		2
60	A Nonlinear Analytical Algorithm for Predicting the Probabilistic Mass Flow of a Radial District Heating Network. Energies, 2019, 12, 1215.	1.6	5
61	Convex Hull Based Robust Security Region for Electricity-Gas Integrated Energy Systems. IEEE Transactions on Power Systems, 2019, 34, 1740-1748.	4.6	59
62	Adaptive Robust Day-Ahead Dispatch for Urban Energy Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 1379-1390.	5.2	67
63	A Multi-Objective Robust State Estimator for Systems Measured by Phasor Measurement Units. IEEE Access, 2018, 6, 14620-14628.	2.6	4
64	A robust optimization approach for integrated community energy system in energy and ancillary service markets. Energy, 2018, 148, 1-15.	4.5	135
65	Optimal Power and Gas Flow With a Limited Number of Control Actions. IEEE Transactions on Smart Grid, 2018, 9, 5371-5380.	6.2	36
66	Chance-constrained coordinated optimization for urban electricity and heat networks. CSEE Journal of Power and Energy Systems, 2018, 4, 399-407.	1.7	23
67	Hybrid method for short-term photovoltaic power forecasting based on deep convolutional neural network. IET Generation, Transmission and Distribution, 2018, 12, 4557-4567.	1.4	178
68	Effect of Runoff Variability and Sea Level on Saltwater Intrusion: A Case Study of Nandu River Estuary, China. Water Resources Research, 2018, 54, 9919-9934.	1.7	19
69	Transient air-water flow patterns in the vent tube in hydropower tailrace system simulated by 1-D-3-D coupling method. Journal of Hydrodynamics, 2018, 30, 715-721.	1.3	3
70	Stochastic look-ahead dispatch for coupled electricity and natural-gas networks. Electric Power Systems Research, 2018, 164, 159-166.	2.1	18
71	Steady state and transient simulation for electricity-gas integrated energy systems by using convex optimisation. IET Generation, Transmission and Distribution, 2018, 12, 2199-2206.	1.4	37
72	Investigation on Maximum Upsurge and Air Pressure of Air Cushion Surge Chamber in Hydropower Stations. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	6

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73	An approximate analytical method to size an air vessel in a water supply system. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 1016-1021.	1.0	5
74	Multi-period integrated natural gas and electric power system probabilistic optimal power flow incorporating power-to-gas units. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017, 5, 412-423.	3.3	57
75	Multi-area distributed three-phase state estimation for unbalanced active distribution networks. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017, 5, 767-776.	3.3	20
76	Identifying Optimal Energy Flow Solvability in Electricity-Gas Integrated Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 846-854.	5.9	50
77	Multi-Linear Probabilistic Energy Flow Analysis of Integrated Electrical and Natural-Gas Systems. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 1970-1979.	4.6	145
78	An interval state estimation for electricity-gas urban energy systems. , 2017, , .		5
79	A Carbon Price Forecasting Model Based on Variational Mode Decomposition and Spiking Neural Networks. <i>Energies</i> , 2016, 9, 54.	1.6	96
80	Steady-state security regions of electricity-gas integrated energy systems. , 2016, , .		15
81	Multi-time Combined Gas and Electric System Optimal Power Flow Incorporating Wind Power. <i>Energy Procedia</i> , 2016, 100, 111-116.	1.8	5
82	Dynamic stochastic optimal power flow of wind power and the electric vehicle integrated power system considering temporal-spatial characteristics. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	0.8	4
83	Probabilistic available transfer capability calculation considering static security constraints and uncertainties of electricity-gas integrated energy systems. <i>Applied Energy</i> , 2016, 167, 305-316.	5.1	52
84	Wind power system state estimation with automatic differentiation technique. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 53, 297-306.	3.3	12
85	Influence of flow field on stability of throttled surge tanks with standpipe. <i>Journal of Hydrodynamics</i> , 2013, 25, 294-300.	1.3	5