Behnam Mohammadi-ivatloo

List of Publications by Citations

453 papers	10,088 citations	53 h-index	78 g-index
491 ext. papers	13,232 ext. citations	5.4 avg, IF	7.65 L-index

#	Paper	IF	Citations
453	Combined heat and power economic dispatch problem solution using particle swarm optimization with time varying acceleration coefficients. *Electric Power Systems Research*, **2013**, 95, 9-18	3.5	233
452	Energy hub: From a model to a concept – A review. *Renewable and Sustainable Energy Reviews*, **2017**, 80, 1512-1527	16.2	200
451	Stochastic Scheduling of Renewable and CHP-Based Microgrids. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 1049-1058	11.9	188
450	Stochastic optimization of energy hub operation with consideration of thermal energy market and demand response. *Energy Conversion and Management*, **2017**, 145, 117-128	10.6	166
449	Optimal economic dispatch of FC-CHP based heat and power micro-grids. *Applied Thermal Engineering*, **2017**, 114, 756-769	5.8	160
448	Optimal management of energy hubs and smart energy hubs – A review. *Renewable and Sustainable Energy Reviews*, **2018**, 89, 33-50	16.2	144
447	Application of information-gap decision theory to risk-constrained self-scheduling of GenCos. *IEEE Transactions on Power Systems*, **2013**, 28, 1093-1102	7	144
446	Optimal operation scheduling of wind power integrated with compressed air energy storage (CAES). *Renewable Energy*, **2013**, 51, 53-59	8.1	132
445	Voltage stability constrained multi-objective optimal reactive power dispatch under load and wind power uncertainties: A stochastic approach. *Renewable Energy*, **2016**, 85, 598-609	8.1	130
444	A comprehensive review of heuristic optimization algorithms for optimal combined heat and power dispatch from economic and environmental perspectives. *Renewable and Sustainable Energy Reviews*, **2018**, 81, 2128-2143	16.2	123
443	Short-term scheduling of combined heat and power generation units in the presence of demand response programs. *Energy*, **2014**, 71, 289-301	7.9	116
442	Corrective Voltage Control Scheme Considering Demand Response and Stochastic Wind Power. *IEEE Transactions on Power Systems*, **2014**, 29, 2965-2973	7	114
441	Optimal bidding strategy of electricity retailers using robust optimisation approach considering time-of-use rate demand response programs under market price uncertainties. *IET Generation, Transmission and Distribution*, **2015**, 9, 328-338	2.5	114
440	Optimal scheduling of plug-in electric vehicles and renewable micro-grid in energy and reserve markets considering demand response program. *Journal of Cleaner Production*, **2018**, 186, 293-303	10.3	110
439	Continuous quick group search optimizer for solving non-convex economic dispatch problems. *Electric Power Systems Research*, **2012**, 93, 93-105	3.5	110
438	Optimal Stochastic Design of Wind Integrated Energy Hub. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 2379-2388	11.9	109
437	Iteration PSO with time varying acceleration coefficients for solving non-convex economic dispatch problems. *International Journal of Electrical Power and Energy Systems*, **2012**, 42, 508-516	5.1	106

436	Short-Term Scheduling Strategy for Wind-Based Energy Hub: A Hybrid Stochastic/IGDT Approach. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 438-448	8.2	105
435	Solving combined heat and power economic dispatch problem using real coded genetic algorithm with improved Mühlenbein mutation. *Applied Thermal Engineering*, **2016**, 99, 465-475	5.8	101
434	Stochastic scheduling of aggregators of plug-in electric vehicles for participation in energy and ancillary service markets. *Energy*, **2017**, 118, 1168-1179	7.9	99
433	Optimal stochastic energy management of retailer based on selling price determination under smart grid environment in the presence of demand response program. *Applied Energy*, **2017**, 187, 449-464	10.7	95
432	Imperialist competitive algorithm for solving non-convex dynamic economic power dispatch. *Energy* , **2012**, 44, 228-240	7.9	95
431	Stochastic risk-constrained scheduling of smart energy hub in the presence of wind power and demand response. *Applied Thermal Engineering*, **2017**, 123, 40-49	5.8	91
430	Stochastic network-constrained co-optimization of energy and reserve products in renewable energy integrated power and gas networks with energy storage system. *Journal of Cleaner Production*, **2019**, 223, 747-758	10.3	88
429	Stochastic risk-constrained short-term scheduling of industrial cogeneration systems in the presence of demand response programs. *Applied Energy*, **2014**, 136, 393-404	10.7	88
428	Solution of optimal reactive power dispatch of power systems using hybrid particle swarm optimization and imperialist competitive algorithms. *International Journal of Electrical Power and Energy Systems*, **2016**, 83, 104-116	5.1	88
427	Economic-environmental effect of power to gas technology in coupled electricity and gas systems with price-responsive shiftable loads. *Journal of Cleaner Production*, **2020**, 244, 118769	10.3	88
426	Application of fuel cell and electrolyzer as hydrogen energy storage system in energy management of electricity energy retailer in the presence of the renewable energy sources and plug-in electric vehicles. *Energy Conversion and Management*, **2017**, 136, 404-417	10.6	86
425	Robust scheduling of hydrogen based smart micro energy hub with integrated demand response. *Journal of Cleaner Production*, **2020**, 267, 122041	10.3	76
424	Optimal battery technology selection and incentive-based demand response program utilization for reliability improvement of an insular microgrid. *Energy*, **2019**, 169, 92-104	7.9	76
423	A comprehensive review of low voltage ride through of doubly fed induction wind generators. *Renewable and Sustainable Energy Reviews*, **2016**, 57, 412-419	16.2	74
422	Short-Term Self-Scheduling of Virtual Energy Hub Plant Within Thermal Energy Market. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 3124-3136	8.9	72
421	Integration of emerging resources in IGDT-based robust scheduling of combined power and natural gas systems considering flexible ramping products. *Energy*, **2019**, 189, 116195	7.9	70
420	Probabilistic multi-objective optimal power flow considering correlated wind power and load uncertainties. *Renewable Energy*, **2016**, 94, 10-21	8.1	69
419	Time-varying acceleration coefficients IPSO for solving dynamic economic dispatch with non-smooth cost function. *Energy Conversion and Management*, **2012**, 56, 175-183	10.6	69

418	Application of heuristic algorithms to optimal PMU placement in electric power systems: An updated review. *Renewable and Sustainable Energy Reviews*, **2015**, 50, 214-228	16.2	69
417	Large-scale combined heat and power economic dispatch using a novel multi-player harmony search method. *Applied Thermal Engineering*, **2019**, 154, 493-504	5.8	67
416	Cost-Benefit Analysis of V2G Implementation in Distribution Networks Considering PEVs Battery Degradation. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 961-970	8.2	66
415	Designing and optimizing a novel advanced adiabatic compressed air energy storage and air source heat pump based Combined Cooling, heating and power system. *Energy*, **2016**, 116, 64-77	7.9	64
414	. *IEEE Transactions on Power Systems*, **2015**, 30, 376-384	7	63
413	Robust Short-Term Scheduling of Integrated Heat and Power Microgrids. *IEEE Systems Journal*, **2019**, 13, 3295-3303	4.3	63
412	Nonconvex Dynamic Economic Power Dispatch Problems Solution Using Hybrid Immune-Genetic Algorithm. *IEEE Systems Journal*, **2013**, 7, 777-785	4.3	63
411	Short-term scheduling of hydro-based power plants considering application of heuristic algorithms: A comprehensive review. *Renewable and Sustainable Energy Reviews*, **2017**, 74, 116-129	16.2	62
410	CVaR-constrained scheduling strategy for smart multi carrier energy hub considering demand response and compressed air energy storage. *Energy*, **2019**, 174, 1238-1250	7.9	62
409	Robust scheduling of thermal, cooling and electrical hub energy system under market price uncertainty. *Applied Thermal Engineering*, **2019**, 149, 862-880	5.8	62
408	Optimal robust operation of combined heat and power systems with demand response programs. *Applied Thermal Engineering*, **2019**, 149, 1359-1369	5.8	61
407	Optimal short-term scheduling of a novel tri-generation system in the presence of demand response programs and battery storage system. *Energy Conversion and Management*, **2016**, 122, 95-108	10.6	59
406	A two-point estimate method for uncertainty modeling in multi-objective optimal reactive power dispatch problem. *International Journal of Electrical Power and Energy Systems*, **2016**, 75, 194-204	5.1	59
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404	Evaluating the impact of multi-carrier energy storage systems in optimal operation of integrated electricity, gas and district heating networks. *Applied Thermal Engineering*, **2020**, 176, 115413	5.8	56
403	An overview of power quality enhancement techniques applied to distributed generation in electrical distribution networks. *Renewable and Sustainable Energy Reviews*, **2018**, 93, 201-214	16.2	56
402	Dynamic planning of distributed generation units in active distribution network. *IET Generation, Transmission and Distribution*, **2015**, 9, 1455-1463	2.5	55
401	Improved harmony search algorithm for the solution of non-linear non-convex short-term hydrothermal scheduling. *Energy*, **2018**, 151, 226-237	7.9	51

400	Stochastic security-constrained operation of wind and hydrogen energy storage systems integrated with price-based demand response. *International Journal of Hydrogen Energy*, **2019**, 44, 14217-14227	6.7	51
399	Short-term hydrothermal generation scheduling by a modified dynamic neighborhood learning based particle swarm optimization. *International Journal of Electrical Power and Energy Systems*, **2015**, 67, 350-367	5.1	50
398	Risk-based optimal scheduling of reconfigurable smart renewable energy based microgrids. *International Journal of Electrical Power and Energy Systems*, **2018**, 101, 415-428	5.1	50
397	Selling price determination by electricity retailer in the smart grid under demand side management in the presence of the electrolyser and fuel cell as hydrogen storage system. *International Journal of Hydrogen Energy*, **2017**, 42, 3294-3308	6.7	49
396	Optimal short-term generation scheduling of hydrothermal systems by implementation of real-coded genetic algorithm based on improved Mühlenbein mutation. *Energy*, **2017**, 128, 77-85	7.9	48
395	Application of information gap decision theory in practical energy problems: A comprehensive review. *Applied Energy*, **2019**, 249, 157-165	10.7	47
394	Self-Scheduling of Demand Response Aggregators in Short-Term Markets Based on Information Gap Decision Theory. *IEEE Transactions on Smart Grid*, **2019**, 10, 2115-2126	10.7	47
393	A Risk-Averse Hybrid Approach for Optimal Participation of Power-to-Hydrogen Technology-Based Multi-Energy Microgrid in Multi-Energy Markets. *Sustainable Cities and Society*, **2020**, 63, 102421	10.1	46
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374	A bi-level market-clearing for coordinated regional-local multi-carrier systems in presence of energy storage technologies. *Sustainable Cities and Society*, **2020**, 63, 102439	10.1	38
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370	Economic-environmental analysis of combined heat and power-based reconfigurable microgrid integrated with multiple energy storage and demand response program. *Sustainable Cities and Society*, **2021**, 69, 102790	10.1	37
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365	Performance Evaluation of Two Machine Learning Techniques in Heating and Cooling Loads Forecasting of Residential Buildings. *Applied Sciences (Switzerland)*, **2020**, 10, 3829	2.6	35

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363	Look-ahead risk-constrained scheduling of wind power integrated system with compressed air energy storage (CAES) plant. *Energy*, **2018**, 160, 668-677	7.9	35
362	Energy production cost minimization in a combined heat and power generation systems using cuckoo optimization algorithm. *Energy Efficiency*, **2017**, 10, 81-96	3	34
361	Energy and reserve management of a smart distribution system by incorporating responsive-loads /battery/wind turbines considering uncertain parameters. *Energy*, **2019**, 183, 205-219	7.9	34
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357	Stochastic multi-objective dynamic dispatch of renewable and CHP-based islanded microgrids. *Electric Power Systems Research*, **2019**, 173, 193-201	3.5	33
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345	Evaluation of technical risks in distribution network along with distributed generation based on active management. *IET Generation, Transmission and Distribution*, **2014**, 8, 609-618	2.5	30
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343	Ensuring cybersecurity of smart grid against data integrity attacks under concept drift. *International Journal of Electrical Power and Energy Systems*, **2020**, 119, 105947	5.1	29
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340	Forecasting heating and cooling loads of buildings: a comparative performance analysis. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 1253-1264	3.7	29
339	DT-based relaying scheme for fault classification in transmission lines using MODP. *IET Generation, Transmission and Distribution*, **2017**, 11, 2796-2804	2.5	28
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320	Network-Constrained Joint Energy and Flexible Ramping Reserve Market Clearing of Power- and Heat-Based Energy Systems: A Two-Stage Hybrid IGDTStochastic Framework. *IEEE Systems Journal* , **2021**, 15, 1547-1556	4.3	23
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