

Shaofeng Lu

List of Publications by Year in descending order

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60
papers

1,291
citations

394421

19
h-index

361022

35
g-index

60
all docs

60
docs citations

60
times ranked

1183
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Train Trajectory Optimization. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 743-750.	8.0	254
2	Increasing the Regenerative Braking Energy for Railway Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2506-2515.	8.0	98
3	A Mixed Integer Quadratic Programming for Dynamic Economic Dispatch With Valve Point Effect. IEEE Transactions on Power Systems, 2014, 29, 2097-2106.	6.5	95
4	A Power-Management Strategy for Multiple-Unit Railroad Vehicles. IEEE Transactions on Vehicular Technology, 2011, 60, 406-420.	6.3	71
5	A Centralized Reactive Power Compensation System for LV Distribution Networks. IEEE Transactions on Power Systems, 2015, 30, 274-284.	6.5	58
6	Anthracenedicarboximide-based semiconductors for air-stable, n-channel organic thin-film transistors: materials design, synthesis, and structural characterization. Journal of Materials Chemistry, 2012, 22, 4459-4472.	6.7	51
7	Dipyrrolo[2,3-b:2',3'-e]pyrazine-2,6(1H,5H)-dione based conjugated polymers for ambipolar organic thin-film transistors. Chemical Communications, 2013, 49, 484-486.	4.1	48
8	Partial Train Speed Trajectory Optimization Using Mixed-Integer Linear Programming. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2911-2920.	8.0	45
9	Optimal Sizing of Onboard Energy Storage Devices for Electrified Railway Systems. IEEE Transactions on Transportation Electrification, 2020, 6, 1301-1311.	7.8	45
10	Train Speed Trajectory Optimization With On-Board Energy Storage Device. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4092-4102.	8.0	44
11	Integrated Timetable Optimization for Minimum Total Energy Consumption of an AC Railway System. IEEE Transactions on Vehicular Technology, 2020, 69, 3641-3653.	6.3	41
12	Optimized Sizing and Scheduling of Hybrid Energy Storage Systems for High-Speed Railway Traction Substations. Energies, 2018, 11, 2199.	3.1	38
13	Day-ahead electric vehicle aggregator bidding strategy using stochastic programming in an uncertain reserve market. IET Generation, Transmission and Distribution, 2019, 13, 2517-2525.	2.5	38
14	Synthesis and thin-film transistor performance of benzodipyrrolinone and bithiophene donor-acceptor copolymers. Journal of Materials Chemistry, 2012, 22, 22282.	6.7	35
15	Structural and Hierarchical Partitioning of Virtual Microgrids in Power Distribution Network. IEEE Systems Journal, 2019, 13, 823-832.	4.6	29
16	Speed Tracking Based Energy-Efficient Freight Train Control Through Multi-Algorithms Combination. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 76-90.	3.8	24
17	Power Grid Partitioning Based on Functional Community Structure. IEEE Access, 2019, 7, 152624-152634.	4.2	22
18	A Two-Step Method for Energy-Efficient Train Operation, Timetabling, and Onboard Energy Storage Device Management. IEEE Transactions on Transportation Electrification, 2021, 7, 1822-1833.	7.8	21

#	ARTICLE	IF	CITATIONS
19	Adaptive Eco-Driving Strategy and Feasibility Analysis for Electric Trains With Onboard Energy Storage Devices. IEEE Transactions on Transportation Electrification, 2021, 7, 1834-1848.	7.8	21
20	Adaptive Partial Train Speed Trajectory Optimization. Energies, 2018, 11, 3302.	3.1	17
21	Energy-Efficient Speed Profile Approximation: An Optimal Switching Region-Based Approach with Adaptive Resolution. Energies, 2016, 9, 762.	3.1	16
22	Power ramp-rate control based on power forecasting for PV grid-tied systems with minimum energy storage. , 2017, , .		16
23	Three-stage electric vehicle scheduling considering stakeholders economic inconsistency and battery degradation. IET Cyber-Physical Systems: Theory and Applications, 2017, 2, 102-110.	3.3	16
24	Interrelation of structure and operational states in cascading failure of overloading lines in power grids. Physica A: Statistical Mechanics and Its Applications, 2017, 482, 728-740.	2.6	13
25	Stochastic bidding strategy of electric vehicles and energy storage systems in uncertain reserve market. IET Renewable Power Generation, 2020, 14, 3653-3661.	3.1	11
26	Maximise the Regenerative Braking Energy using Linear Programming. , 2014, , .		9
27	Upgrading Conventional Distribution Networks by Actively Planning Distributed Generation Based on Virtual Microgrids. IEEE Systems Journal, 2021, 15, 2607-2618.	4.6	9
28	Notch-based speed trajectory optimisation for high-speed railway automatic train operation. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2022, 236, 159-171.	2.0	9
29	Realization of dual-channel organic field-effect transistors and their applications to chemical sensing. Applied Physics Letters, 2008, 93, 133304.	3.3	8
30	Structural Evaluation for Distribution Networks with Distributed Generation Based on Complex Network. Complexity, 2017, 2017, 1-10.	1.6	8
31	A Safety-Oriented Dynamic Moving Block Train Control System Based on Train-to-Train Communication. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 175-187.	3.8	8
32	Integrated optimisation model for neutral section location planning and energy-efficient train control in electrified railways. IET Renewable Power Generation, 2020, 14, 3599-3607.	3.1	6
33	Optimization for train speed trajectory based on Pontryagin's Maximum Principle. , 2017, , .		5
34	Optimization of Speed Profile and Energy Interaction at Stations for a Train Vehicle with On-board Energy Storage Device. , 2018, , .		5
35	Node Type Distribution and Its Impacts on Performance of Power Grids. IEEE Access, 2019, 7, 46480-46490.	4.2	5
36	Power management strategy study for a multiple unit train. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
37	A two-stage electric vehicles scheduling strategy to address economic inconsistency issues of stakeholders. , 2017, , .		4
38	Exploring the effectiveness of student-generated video tutorials in electronic lab-based teaching. , 2017, , .		4
39	Understanding Communities From a New Functional Perspective in Power Grids. IEEE Systems Journal, 2022, 16, 3072-3083.	4.6	4
40	Optimal Sizing of Onboard Hybrid Energy Storage Devices Considering the Long-Term Train Operation. IEEE Access, 2022, 10, 58360-58374.	4.2	4
41	A mixed integer quadratic programming for dynamic economic dispatch with valve point effect. , 2015, , .		3
42	Virtual-Coupling Operation for High-Speed Rail based on Following- Train Speed Profile Optimization. , 2021, , .		3
43	Net Hydrogen Consumption Minimization of Fuel Cell Hybrid Trains Using a Time-Based Co-Optimization Model. Energies, 2022, 15, 2891.	3.1	3
44	Partial speed trajectory optimization for urban rail vehicles with considerations on motor efficiency. , 2017, , .		2
45	Electric vehicle charging and discharging scheduling considering reserve call-up service. , 2017, , .		2
46	Earth Potential as the Energy Storage in Rail Transit System - on a Vertical Alignment Optimization Problem. , 2018, , .		2
47	Evaluation of Buses in Power Grids by Extended Entropic Degree. , 2018, , .		2
48	Multiagent System-Based Near-Real-Time Trajectory and Microscopic Timetable Optimization for Rail Transit Network. Journal of Transportation Engineering Part A: Systems, 2021, 147, 04020153.	1.4	2
49	A New Operation-Oriented Mixed Integer Linear Programming Model for Energy-Efficient Train Operations. , 2020, , .		2
50	Multistage and Dynamic Layout Optimization for Electric Vehicle Charging Stations Based on the Behavior Analysis of Travelers. World Electric Vehicle Journal, 2021, 12, 243.	3.0	2
51	Planning of Virtual Microgrids by Integrated Partition and DER Allocation. , 2021, , .		2
52	A speed trajectory optimization model for rail vehicles using mixed integer linear programming. , 2017, , .		1
53	Integrated Train Speed Profiles optimization Considering Signaling System and Delay. , 2018, , .		1
54	Enhancing Sustainability of Rail Transit System by Applying Multi-Agent System. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	Functional Community Detection in Power Grids. Studies in Computational Intelligence, 2020, , 883-894.	0.9	1
56	Hydrogen Consumption Minimization for Fuel Cell Trains Based on Speed Trajectory Optimization. Lecture Notes in Electrical Engineering, 2020, , 335-345.	0.4	1
57	Optimal Energy Management Strategy for Fuel-Cell Hybrid Trains with Different Types of Energy Storage Devices. Lecture Notes in Electrical Engineering, 2022, , 417-425.	0.4	1
58	Evaluation for Risk of Cascading Failures in Power Grids by Inverse-Community Structure. IEEE Internet of Things Journal, 2023, 10, 7459-7468.	8.7	1
59	Electric Vehicle Operation Scheduling Optimization Considering Electrochemical Characteristics of Li-Ion Batteries. , 2020, , .		0
60	Active Planning for Power Distribution Networks Based on Virtual Microgrids. , 2021, , .		0