Chao Sun

List of Publications by Year
in descending order

23 papers	1,120 citations	759233 12 h-index	839539 18 g-index
23 all docs	23 docs citations	23 times ranked	791 citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Targetless Calibration for LiDAR and Camera Based on Instance Segmentation. IEEE Robotics and Automation Letters, 2023, 8, 981-988.	5.1	4
2	An Eco-Driving Approach With Flow Uncertainty Tolerance for Connected Vehicles Against Waiting Queue Dynamics on Arterial Roads. IEEE Transactions on Industrial Informatics, 2022, 18, 5286-5296.	11.3	12
3	Co-optimization method of speed planning and energy management for fuel cell vehicles through signalized intersections. Journal of Power Sources, 2022, 518, 230598.	7.8	33
4	Adaptive Speed Planning of Connected and Automated Vehicles Using Multi-Light Trained Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 3533-3546.	6.3	21
5	Predictive co-optimization of speed planning and powertrain energy management for electric vehicles driving in traffic scenarios: Combining strengths of simultaneous and hierarchical methods. Journal of Power Sources, 2022, 523, 230910.	7.8	18
6	Stochastically predictive co-optimization of the speed planning and powertrain controls for electric vehicles driving in random traffic environment safely and efficiently. Journal of Power Sources, 2022, 528, 231200.	7.8	16
7	Bi-level convex optimization of eco-driving for connected Fuel Cell Hybrid Electric Vehicles through signalized intersections. Energy, 2022, 252, 123956.	8.8	33
8	Application of alternating direction method of multipliers algorithm in energy management of fuel cell vehicles. International Journal of Hydrogen Energy, 2021, 46, 25620-25633.	7.1	9
9	An experimental study on the mechanical characteristics of Li‐ion battery during overcharge‐induced thermal runaway. International Journal of Energy Research, 2021, 45, 19985-20000.	4.5	12
10	Guided model predictive control for connected vehicles with hybrid energy systems. Energy, 2021, 230, 120780.	8.8	10
11	Machine learning aided methods for reducing the dimensionality of the comprehensive energy economy optimization of the fuel cell powertrains. Journal of Cleaner Production, 2021, 327, 129250.	9.3	5
12	Multi-objective Optimization of Layout of Detectors and Floating Car Datum Requirement for Higher Efficiency of Traffic State Prediction. , 2021, , .		0
13	Mechanism-based Modeling and Estimation of Optimal Energy Consumption in Traffic Flow for Electric Vehicles. , 2021, , .		2
14	Adaptive Eco-driving of Fuel Cell Vehicles Based on Multi-light Trained Deep Reinforcement Learning. , 2021, , .		3
15	Hierarchical Energy Management of Fuel Cell Vehicles Through Signalized Intersections. , 2021, , .		0
16	Hot-start based Fast Speed Planning for Eco-Driving of Intelligent Vehicles. , 2021, , .		0
17	Optimal Eco-Driving Control of Connected and Autonomous Vehicles Through Signalized Intersections. IEEE Internet of Things Journal, 2020, 7, 3759-3773.	8.7	127
18	Lithium-ion battery overcharging thermal characteristics analysis and an impedance-based electro-thermal coupled model simulation. Applied Energy, 2019, 254, 113574.	10.1	59

#	Article	IF	Citations
19	ARIMA-Based Road Gradient and Vehicle Velocity Prediction for Hybrid Electric Vehicle Energy Management. IEEE Transactions on Vehicular Technology, 2019, 68, 5309-5320.	6.3	94
20	Stochastic Model Predictive Control of Air Conditioning System for Electric Vehicles: Sensitivity Study, Comparison, and Improvement. IEEE Transactions on Industrial Informatics, 2018, 14, 4179-4189.	11.3	28
21	Freeway Driving Cycle Construction Based on Real-Time Traffic Information and Global Optimal Energy Management for Plug-In Hybrid Electric Vehicles. Energies, 2017, 10, 1796.	3.1	17
22	Dynamic Traffic Feedback Data Enabled Energy Management in Plug-in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 1075-1086.	5.2	239
23	Velocity Predictors for Predictive Energy Management in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 1197-1204.	5.2	378