Table 2
Statistics on authors, powertrains, algorithms, and contributions of conference papers.

Reference	Powertrain	Algorithm	Contribution
Biswas[98] (2019)	Power split HEV	Q Learning	The RL-based EMS in real-world driving scenarios;
Gole[99] (2019)	FCV	Q Learning	Hardware implementation based on NVIDIA Jetson TX2;
He[100] (2019)	Serial HETV	DQN	The DQN-based EMS with target networks;
Heimrat[101] (2019)	SUV	DQN	Reflex-augmented RL for safety-critical applications;
Hofstetter[102] (2019)	Parallel HEV	PPO	Energy and emission management; simultaneously controlling the torque split, the electrical catalyst heating, and the combustion mode selection;
Shota[103] (2019)	Parallel HEV	PPO	The RL-based EMS with connected information about the traffic lights;
Keyser[104] (2019)	PEV	Q Learning	Treating the electric dual-drive vehicle as a target; the RL-based EMS;
Li[105] (2019)	PEV	Q Learning	Lithium battery and supercapacitor; rule and QL-based strategy; switching the control strategy based on the actual situation between rule and QL-based EMSs;
Liessner[106] (2019)	Parallel HEV	DDPG	Safety-critical applications; battery temperature;
Liessner[107] (2019)	Parallel HEV	DDPG	Bayesian optimization for hyperparameters and vehicle parameters;
Liessner[108] (2019)	Mild HEV	DDPG	The model-based hyperparameter optimization for DDPG; the random forest leads to twice the performance compared to the original hyperparameters;
Reddy[109] (2019)	FCV	Q Learning	Minimizing fuel consumption and improving the lifespan of batteries;
Sanusi[110] (2019)	Serial HEV	Q Learning	RL-adaptive DP-based EMS; compensating for both modeling uncertainties and variability;
Wang[111] (2019)	ERDEV	Double QL	The generalization ability to unforeseen trips;
Wang[112] (2019)	ERDEV	DDPG	The generalization ability to unforeseen trips;
Wang[113] (2019)	ERDEV	Distributional DDPG	Uncertainty estimation in a return distribution; transferrable framework;
Biswas[114] (2020)	Multi-mode HEV	A3C	Comparing rule-based and ECMS-based EMSs;
Liu[115] (2020)	Parallel HEV	SARSA	Transition probability matrix; conditions recognition; transferrable framework;
Wang[116] (2020)	ERDEV	IQN	The full return distribution is estimated; the risk measure of conditional value at risk;
Wang[117] (2020)	ERDEV	DQN	Vehicle to cloud; Bayesian ensemble; uncertainty estimation for action;
Wu[118] (2020)	PHEV	Q Learning	Considering battery SOC planning;
Zhu[119] (2020)	Parallel HEV	Double DQN	SUMO; urban traffic model;
Chen[120] (2021)	Parallel HEV	Q Learning	State reduction mechanism; CO_2 emission;
Deng[121] (2021)	Hybrid rail vehicles	TD3	Hybrid rail vehicles on remote non-electrified routes; a new reward function term including the price, the SOC, and the fuel cell aging;
Guo[122] (2021)	FCV	Q Learning	Improved several objective functions for reducing hydrogen consumption and maintaining battery SOC;
Hu[123] (2021)	PEV	DDPG	Integrating the experience of agents; weighted evaluation strategy;
Huang[124] (2021)	PHEB	DDPG	Real-world speed profile; the DDPG-based SOC reference trajectory generator; DNN-based speed prediction; MPC-based online optimal EMSs;
Huang[125] (2021)	Power split PHEB	DDPG	Prioritized experience replay; a real-world speed profile;

Reference	Powertrain	Algorithm	Contribution
Meng[126] (2021)	FCV	Double Q Learning	Overcoming the overestimation;
Sreekanth[127] (2021)	Parallel HEV	DQN	Co-simulation studies between Matlab and the advanced vehicle simulator;
Tao[128] (2021)	PEV	Model-based RL	An RL-based NN model training by the fuzzy controller; reduce the prediction error and reselect the action for the RL controller; battery and supercapacitor;
Wei[129] (2021)	Power split HEB	DDPG	Priority experience replay; battery thermal management by penalties about over-temperature; fully-continuous separate speed and torque control;
Ye[130] (2021)	PEV	Fast Q Learning	Battery and supercapacitor; energy saving and battery aging;
Zheng[131] (2021)	FCV	DDPG	Prioritized experience replay;
Biswas[132] (2022)	Power split HEV	A3C	An immediate reward should be articulated to control infeasibility;
Chen[133] (2022)	Power split HEV	DDPG DQN	The dimension disaster of Q-Learning; the discrete problem of DQN;
Chen[134] (2022)	FCV	DDPG	Ecological driving; reward for optimizing car-following, fuel consumption, and change rate of the output power of fuel cell system;
Ghaderi[135] (2022)	FCV	Q Learning	The fuzzy logic-based control determines the amount of power distribution; the RL-based policy optimally shares the power among the fuel cells;
Guo[136] (2022)	FCV	Q Learning	A fuzzy inference system to approximate the state-action value;
Guo[137] (2022)	FCV	Fuzzy Q Learning	Suppressing frequent fuel cells startup by considering the penalty; fuzzy logic to approximate the value function to solve continuous state and action problems;
Han[138] (2022)	Serial HEV	Double Q Learning	Avoiding the maximization bias;
Hou[139] (2022)	FCV	Q Learning	Minimizing the hydrogen consumption and keeping a stable SOC level;
Lin[140] (2022)	PHEV	PPO	The DRL agent determines the equivalent factor of the ECMS-based EMS;
Lin[141] (2022)	Parallel HEV	MCTS	Monte Carlo Tree Search-based adjustment method for the equivalence factor of the ECMS-based EMS;
Shen[142] (2022)	FC Bus	DDPG	High-speed traffic scenarios; a real bus driving condition; NGSIM data;
Wang[143] (2022)	PHETV	DDPG	Serial parallel powertrain; an equivalent motor; RL-based mode selection and power distribution;
Wu[144] (2022)	Power split HEV	5 DRL algorithms	Standard benchmarks and tighter metrics of experimental reporting; systematic benchmarking studies on DRL-based EMSs;
Xu[145] (2022)	Power split HEV	DDPG	Transfer learning; the influence of different noise;
Ye[146] (2022)	PEV	Q Learning	Battery and supercapacitor; the digital twin methodology; hardware-in-the-loop; battery degradation;
Niu[147] (2022)	Power split HEV	DQN	Connected vehicles; cloud and offline RL; batch-constrained DQN;
Zhang[148] (2022)	PHE Bus	PPO	Fuzzy-based style recognition (transient information) is treated the state;
Zhang[149] (2022)	Parallel HEV	DQN	Bi-LSTM-based velocity prediction; reference SOC trajectory based on velocity and driving mileage; MPC-DRL-based EMSs;
Zhang[150] (2022)	Electric Bus	DDPG	Customized cycle construction; data-driven EMSs; dual motors;
Li[151] (2023)	Power split PHEV	DQN DDPG	The DQN and DDPG-based EMSs for the Prius;
Xu[152] (2023)	PEV	SAC	Battery and supercapacitor; battery lifespan; joint energy management and eco-routing; the dynamic traffic flow; QL-based eco-routing; SAC-based EMSs;
Yadav[153] (2023)	Power split HEV	DQN DDPG	The DQN and DDPG-based EMSs for the Prius; applying learned parameters for initializing the new network;
Yazar[154] (2023)	Power split HEV	TD3	The TD3-based EMS and comparing it with the QL, DQN, and DDPG;

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