**Table 4**

Statistics on authors, powertrains, algorithms, and contributions of journal papers (Powertrain Innovation).

| Author  (Year) | Powertrain | Algorithm | Contribution |
| --- | --- | --- | --- |
| Zhou[247]  (2019) | Serial HEV | Q Learning | Electrified off-highway vehicle; three multi-step learning strategies (sum-to-terminal, average-to-neighbor recurrent-to-terminal); hardware-in-the-loop; |
| Lahyani[248]  (2020) | PEV | Q Learning | Hybrid energy storage systems (battery and supercapacitor); electro-thermal battery model; an RL-based power-sharing configuration and a rule-based frequency power-sharing control; |
| Sun[249]  (2020) | FCV | Q Learning | Fuel cell, battery, and supercapacitor; shrink state-action space based on an adaptive fuzzy filter; speedy Q-Learning; ECMS-based multi-objective optimization considering lifespan and fuel efficiency of fuel cell; RL-based splitting strategy for battery and fuel cell; |
| Zhou[250]  (2020) | FCV | DDPG | The health status of the proton electrolyte membrane fuel cell and Li-ion battery decreases; The RL optimizes the boundary of SOC that changes with power source attenuation, and the thermostat controller controls the fuel cell current according to the SOC boundary; |
| Li[251]  (2021) | PEV | DQN | Hybrid battery systems (high-energy and a high-power battery pack); energy loss minimization and electrical and thermal safety enhancement; |
| Wu[252]  (2021) | HE Bus | SAC | Thermal safety and degradation of onboard lithium-ion battery; the over-temperature penalty and multi-stress-driven degradation cost of battery are introduced in the existing indicators; |
| Xu[253]  (2021) | PEV | Q Learning | Battery and supercapacitor; optimizing the energy and battery degradation; validating the battery aging model with experimental data; |
| Yang[254]  (2021) | Rail transit | DQN | considering the energy-saving and voltage-stabilizing effects of supercapacitor; a traction power system simulator; |
| Zhang[255]  (2021) | PHEV | DQN | The dual-mode engine with homogeneous charge compression ignition (HCCI) and spark ignition (SI); DP obtains optimal combustion mode and SOC reference trajectories at the cloud. DRL-based EMS and combustion mode with prioritized experience replay at the powertrain; makes full use of HCCI combustion mode and avoids frequent switching of combustion modes; |
| Cheng[256]  (2022) | PEV | Q Learning | Supercapacitor and battery; reduce the loss, reduce the change of current, and prolong the life; Pearson similarity judges the update of the TPM; |
| Deng[257]  (2022) | FC railway vehicle | TD3 | Minimizing hydrogen consumption and fuel cell aging costs; an online fuel cell aging estimation model; a stochastic training environment; |
| Fu[258]  (2022) | FCV | DQN | Fuel cell, battery, and supercapacitor; supercapacitor supplies peak power and recovers braking energy by the fuzzy control-based adaptive filter; DRL-based allocation and ECMS-based reward optimize the control process; the action trimming restrains the adverse effect of sudden peak power of fuel cell; |
| Guo[259]  (2022) | FCV | Dueling-double DQN | Fuel cell degradation; an evaluation mechanism of allowable approach punishment to mitigate system degradation; heavy-duty FCVs;  hardware-in-the-loop; |
| Han[260]  (2022) | Serial HEV | Eligibility Trace | Fuel economy and battery degradation; online recursive Markov chain from statistical features from actual driving cycles; induced matrix norm is employed to measure the difference between TPMs and decide when to update the environment model; |
| Haskara[261]  (2022) | PEV | Q Learning | Energy consumption and battery degradation; Heating Ventilation Air Conditioning (HVAC); RL-based EV traction with driver demand and HVAC control with cabin comfort; empirical battery aging model; |
| Hu[262]  (2022) | FCV | DDPG | Fuel cell, battery, and supercapacitor; adaptive fuzzy control filter to separate the low-frequency and high-frequency demand power; learning guidance mechanism that rewards the reasonable action and penalizes the bad action guides the agent in a rational learning direction; |
| Li[263]  (2022) | FCV | DQN | The optimal size of batteries with the lowest cost, minimizing the summation of hydrogen consumption, fuel cell degradation, and battery degradation; |
| Shi[264]  (2022) | FCV | IQL | Multi-agent reinforcement learning; fuel cell fault for a multi-stack fuel cell; hardware-in-the-loop; considering the safe working when the multi-stack fuel cell system fails; |
| Tang[265]  (2022) | FCV | DQN | Prioritized experience replay; the fuel cell system degradation; |
| Wang[266]  (2022) | Parallel PHEV | DQN | The HEV model is equipped with the waste heat recovery system of the organic Rankine cycle; |
| Xiao[267]  (2022) | Serial HEV | SAC | An auxiliary power unit charging strategy achieves high fuel conversion efficiency while maintaining battery health for charging protection; the reward: fuel, SOC, and charging rate; |
| Xu[268]  (2022) | PEV | Q Learning | Hybrid power system (battery and supercapacitor); maximizing energy efficiency and battery life; the baseline power-split layer and an upper layer to trigger the engagement of the supercapacitor; |
| Xu[269]  (2022) | PEV | SAC | Battery and supercapacitor; slower convergence rate, brittle training stability, and dissatisfactory optimization; parallel computing; DP-based expert knowledge is embedded; |
| Zhang[270]  (2022) | PHEV | TD3 | Dual-mode engine with the lean burn spark-induced compression ignition and the stoichiometric spark ignition; hybrid action space (combustion mode, engine power); spatiotemporal data processing incorporating the multivariate traffic and terrain information, clipped double DQN mechanism, target policy smoothing technique, and delayed policy updates; |
| Zhang[271]  (2022) | Serial HEV | Model-based RL | hybrid construction vehicles; the generalized design: 1) long-term stability,  2) self-learning ability, and 3) state transition model reuse; a reward function with a trend term for avoiding the cumulative errors; Gaussian process regression for approximating the value function; Gaussian mixture-based modeling method; |
| Zhang[272]  (2022) | FCV | TD3 | The transient lifespan degradation information of proton exchange membrane fuel cell stack and lithium-ion battery; limiting the overestimation; |
| Zheng[273]  (2022) | FC Bus | DQN | Fuel cell degradation model; prioritized experience replay; The action space is limited based on the efficiency characteristic of the fuel cell; |
| Zheng[274]  (2022) | FCV | DDPG  DQN | three typical RL algorithms are compared; prioritized experience replay; fuel cell degradation model; the action space is limited based on the characteristic of the fuel cell; pre-initialization; the Ornstein-Uhlenbeck noise is adopted; |
| Saeid[275]  (2023) | HEV | Q Learning | Serial parallel powertrain; fuel consumption and battery life cycle; expert knowledge (battery characteristics); |
| Chen[276]  (2023) | FCV | SAC | SAC algorithm with Beta policy; health degradation of both fuel cell system and power battery; the ablation experiment for health performance; |
| Cui[277]  (2023) | PEV | DDPG | Dual-motor four-wheel-drive vehicle; particle swarm optimization-based parameters matching method for the dual-motor front and rear axle four-wheel drive power system; DRL-based EMS facing uncertain demands; |
| Deng[278]  (2023) | PFCV | SAC | Battery thermal- and cabin comfort awareness; thermal management model and an air conditioning system with cooling and heating mode; |
| Han[279]  (2023) | HETV | DDPG | The lateral dynamics; steering resistance on the energy distribution is considered; the multidimensional matrix framework; the pyramid-like network; hardware-in-the-loop; |
| Hong[280]  (2023) | Electric  Hydraulic HEV | TD3 | A self-adaptive electric-hydraulic ratio under different driving cycles; a DRL-based EMS with a rule-based mode switching strategy; |
| Hu[281]  (2023) | FCV | DDPG | Analyzing the main degradation factors of the fuel cell and battery; a DDPG agent is trained to adjust the adjustment parameters of the Hamiltonian function; hardware-in-the-loop; |
| Huang[282]  (2023) | FC Bus | A3C | A distributed DRL-based EMS considering the fuel cell degradation and battery aging; a comprehensive driving cycle for training reconstructed from real-world driving data; |
| Huang[283]  (2023) | FC Bus | DPPO | A distributed DRL-based EMS considering the multi-objective optimization in hydrogen conservation and fuel cell degradation suppression; |
| Jia[284]  (2023) | FC Bus | TD3 | The air-conditioning system; cabin comfort and fuel cell/battery durability; |
| Lu[285]  (2023) | FCV | DDPG | Fuel cell, battery, and supercapacitor; an adaptive fuzzy filter is employed to complete frequency-based decoupling of power demand; the semi-empirical degradation model of battery; heuristic experience replay; |
| Tao[286]  (2023) | FCV | DDPG | Fuel cell, battery, and supercapacitor; an action-value-based adaptive noise and an action screening-mechanism-based priority experience replay; an adaptive fuzzy filter is employed; terrain-information-considered TPM; |
| Wang[287]  (2023) | PEV | Q Learning | Battery and supercapacitor; its robustness of RL-based EMSs is verified at different temperatures; the dynamic experiments are used to obtain mechanism characteristics and the genetic algorithm is selected to identify the parameters of the battery and supercapacitor model; |
| Wei[288]  (2023) | HEPS | Q Learning | Hybrid electric power system with turboshaft engine; the economic rotational speed of turboshaft engine and safety constraints-based variable action space; |
| Ye[289]  (2023) | PHEV | Q Learning | energy consumption and battery deterioration; lithium‑sulfur battery with bilateral solid electrolyte interphases considering the power performance and degradation characteristics; |
| Zhang[290]  (2023) | PHE Bus | PPO | the PPO-Clip and Penalty-based EMSs considering the battery thermal characteristic; |
| Zhang[291]  (2023) | Power split HEV | DDPG | Lithium-Plating Suppressed effect; single particle model with electrolyte and lithium-plating model; hybrid particle swarm optimization grey wolf optimizer algorithm is applied to the parameter identification; Multi-objective Optimal based on DDPG-based EMS; |
| Zhang[292]  (2023) | Electric Hydraulic HEV | PPO | Integrating the LSTM network to the proximal policy optimization for switching optimal working mode; local sample Shannon entropy and Z-score to realize dynamic evaluation for performance parameters; |
| Zhang[293]  (2023) | Electric Hydraulic HEV | Double DQN | Battery and hydraulic motor; Double DQN avoids overestimation; DRL-based working mode switching; a period of actual velocity data as the off-line training driving cycle; |

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