What is claimed is:

1. A method for acquiring a battery capacity, comprising:

acquiring multiple initial charging parameters of a vehicle battery when a current charging process of the battery is effective charging, wherein the effective charging means that the range of variation in SOC of the battery in the current charging process covers a preset SOC range, and a minimum charging temperature of the battery in the current charging process is greater than or equal to a preset temperature threshold, the multiple initial charging parameters are obtained by a battery experimental test platform in a full discharging and full charging process of the battery;

periodically acquiring multiple actual charging parameters of the battery in the current charging process and a current number of effective charging times corresponding to the current charging process; and

acquiring, according to the multiple initial charging parameters, the multiple actual charging parameters and the current number of effective charging times, a predicted battery capacity of the battery in a next effective charging process,

wherein the step of acquiring, according to the multiple initial charging parameters, the multiple actual charging parameters and the current number of effective charging times, a predicted battery capacity of the battery in a next effective charging process comprises:

estimating, according to the multiple initial charging parameters and the multiple actual charging parameters, a current maximum usable capacity of the battery;

acquiring, according to the current maximum usable capacity and the current number of effective charging times, a capacity correlation relation, wherein the capacity correlation relation comprises a correspondence relation between the predicted battery capacity and the number of effective charging times; and

acquiring, according to the capacity correlation relation, the predicted battery capacity of the battery in the next effective charging process.

2. The method according to claim 1, wherein the step of estimating, according to the multiple initial charging parameters and the multiple actual charging parameters, a current maximum usable capacity of the battery comprises:

acquiring, according to the initial charging parameters, an initial capacity increment profile;

acquiring, according to the actual charging parameters, an actual capacity increment profile; and

estimating, according to the initial capacity increment profile and the actual capacity increment profile, the current maximum usable capacity of the battery.

3. The method according to claim 2, wherein the step of estimating, according to the initial capacity increment profile and the actual capacity increment profile, the current maximum usable capacity of the battery comprises:

acquiring first initial position information corresponding to a second peak value and second initial position information corresponding to a third peak value on the initial capacity increment profile;

acquiring a first current position information corresponding to a second peak value and a second current position information corresponding to a third peak value on the actual capacity increment profile; and

estimating, according to the first initial position information, the second initial position information, the first current position information, the second current position information, the

initial charging parameters and the actual charging parameters, the current maximum usable capacity of the battery.

4. The method according to claim 1, wherein the step of acquiring, according to the capacity correlation relation, the predicted battery capacity of the battery in the next effective charging process comprises:

acquiring a target number of charging times corresponding to the next effective charging process; and

acquiring, according to the target number of charging times and the capacity correlation relation, the predicted battery capacity of the battery in the next effective charging process.

5. The method according to any one of claims 1 to 4, further comprising, before the step of acquiring, according to the current maximum usable capacity and the current number of effective charging times, a capacity correlation relation,

acquiring a historical maximum usable capacity in various effective charging processes before the current charging process and a historical number of effective charging times corresponding to the historical maximum usable capacity; and

the step of acquiring, according to the current maximum usable capacity and the current number of effective charging times, a capacity correlation relation comprises:

acquiring, according to the current maximum usable capacity, the current number of effective charging times, the historical maximum usable capacity and the historical number of effective charging times, the capacity correlation relation.

6. A device for acquiring a battery capacity, comprising:

an initial parameter acquisition module, configured to acquire multiple initial charging parameters of a vehicle battery when a current charging process of the battery is effective charging, wherein the effective charging means that the range of variation in SOC of the battery in the current charging process covers a preset SOC range, and a minimum charging temperature of the battery in the current charging process is greater than or equal to a preset temperature threshold, the multiple initial charging parameters are obtained by a battery experimental test platform in a full discharging and full charging process of the battery;

an actual parameter acquisition module, configured to periodically acquire multiple actual charging parameters of the battery in the current charging process and a current number of effective charging times corresponding to the current charging process; and

a battery capacity acquisition module, configured to acquire, according to the multiple initial charging parameters, the multiple actual charging parameters and the current number of effective charging times, a predicted battery capacity of the battery in a next effective charging process,

wherein the battery capacity acquisition module is further configured to:

estimate, according to the multiple initial charging parameters and the multiple actual charging parameters, a current maximum usable capacity of the battery;

acquire, according to the current maximum usable capacity and the current number of effective charging times, a capacity correlation relation, wherein the capacity correlation relation comprises a correspondence relation between the predicted battery capacity and the number of effective charging times; and

acquire, according to the capacity correlation relation, the predicted battery capacity of the battery in the next effective charging process.

7. The device according to claim 6, wherein the battery capacity acquisition module is further configured to:

acquiring, according to the initial charging parameters, an initial capacity increment profile;

acquiring, according to the actual charging parameters, an actual capacity increment profile; and

estimate, according to the initial capacity increment profile and the actual capacity increment profile, the current maximum usable capacity of the battery.

8. The device according to claim 7, wherein the battery capacity acquisition module is further configured to:

acquire first initial position information corresponding to a second peak value and second initial position information corresponding to a third peak value on the initial capacity increment profile;

acquire first current position information corresponding to a second peak value and second current position information corresponding to a third peak value on the actual capacity increment profile; and

estimate, according to the first initial position information, the second initial position information, the first current position information, the second current position information, the initial charging parameters and the actual charging parameters, the current maximum usable capacity of the battery.

9. The device according to claim 6, wherein the battery capacity acquisition module is further configured to:

acquire a target number of charging times corresponding to the next effective charging process; and

acquire, according to the target number of charging times and the capacity correlation relation, the predicted battery capacity of the battery in the next effective charging process.

10. The device according to any one of claims 6 to 9, further comprising:

a historical parameter acquisition module, configured to acquire a historical maximum usable capacity in various effective charging processes before the current charging process and a historical number of effective charging times corresponding to the historical maximum usable capacity;

wherein the battery capacity acquisition module is further configured to:

acquiring, according to the current maximum usable capacity, the current number of effective charging times, the historical maximum usable capacity and the historical number of effective charging times, the capacity correlation relation.

11. A computer readable storage medium, storing a computer program, wherein the computer program, when executed by a processor, implements steps of the method according to any one of claims 1 to 5.

12. A server, comprising:

a memory, storing a computer program; and

a processor, configured to execute the computer program in the memory, to implement steps of the method according to any one of claims 1 to 5.