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anode
anode active layer
electrolyte 1
semipermeable barrier (spacer) with polymeric HSA
electrolyte 2
cathode active layer
cathode

anode
anode active
electrolyte 1
semipermeable barrier (spacer) without polymeric HSA
semipermeable barrier (membrane) with polymeric HSA
electrolyte 2
cathode active layer
cathode

anode
anode active layer
electrolyte 1
semipermeable barrier (spacer) with polymeric HSA
semipermeable barrier (membrane) without polymeric HSA
electrolyte 2
cathode active layer
cathode

Figure 1.

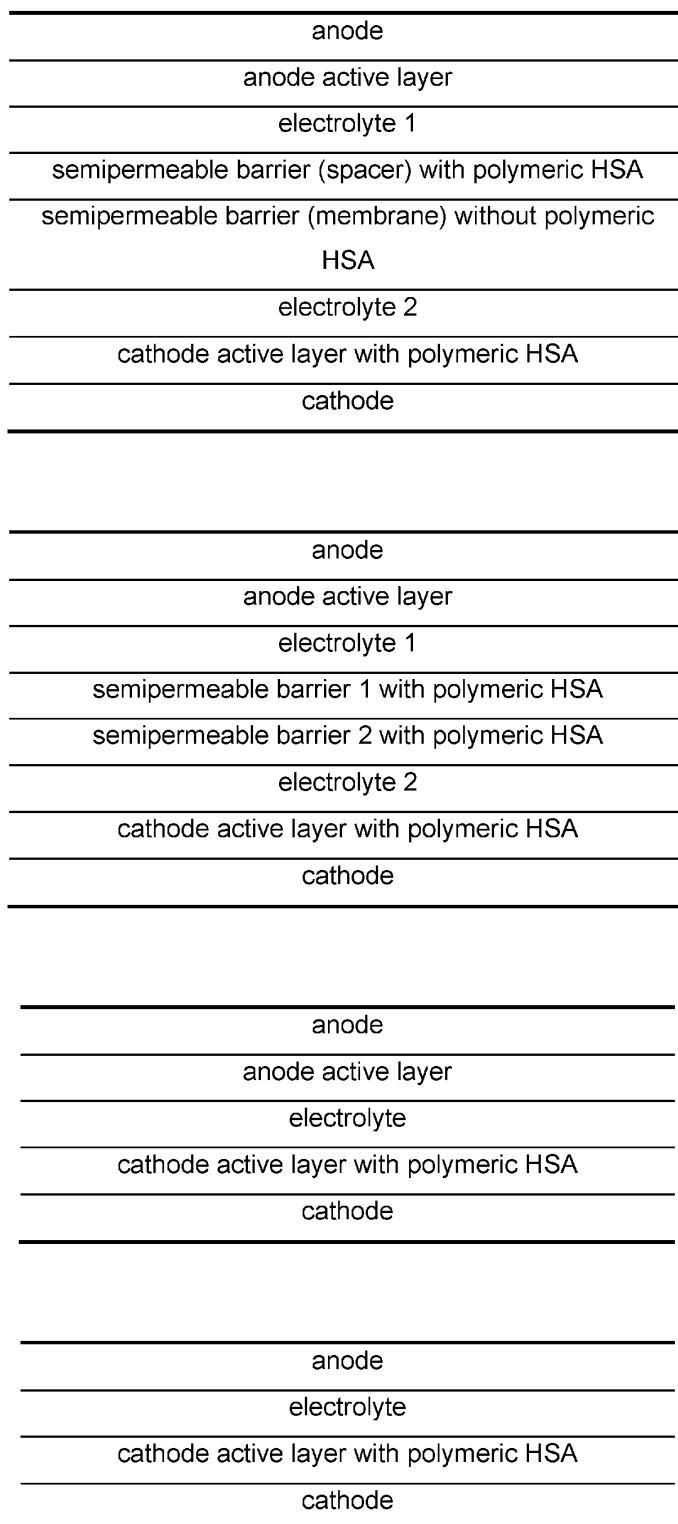
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anode
anode active layer
electrolyte 1
semipermeable barrier 1 with polymeric HSA
semipermeable barrier 2 with polymeric HSA
electrolyte 2
cathode active layer
cathode

anode
anode active layer
electrolyte 1
semipermeable barrier (spacer) with polymeric HSA
electrolyte 2
cathode active layer
cathode

anode
anode active layer
electrolyte 1
semipermeable barrier (spacer) without polymeric HSA
semipermeable barrier (membrane) with polymeric HSA
electrolyte 2
cathode active layer with polymeric HSA
cathode

Figure 1 (Continued).

**Figure 1 (Continued).**

terminal anode
anode active layer <u>and</u> electrolyte 1
semipermeable barrier with polymeric HSA
Cathode active layer and electrolyte 2
bipolar electrode
Anode active layer and electrolyte 1
semipermeable barrier with polymeric HSA
Cathode active layer and electrolyte 2
terminal cathode

Figure 1 (Continued).

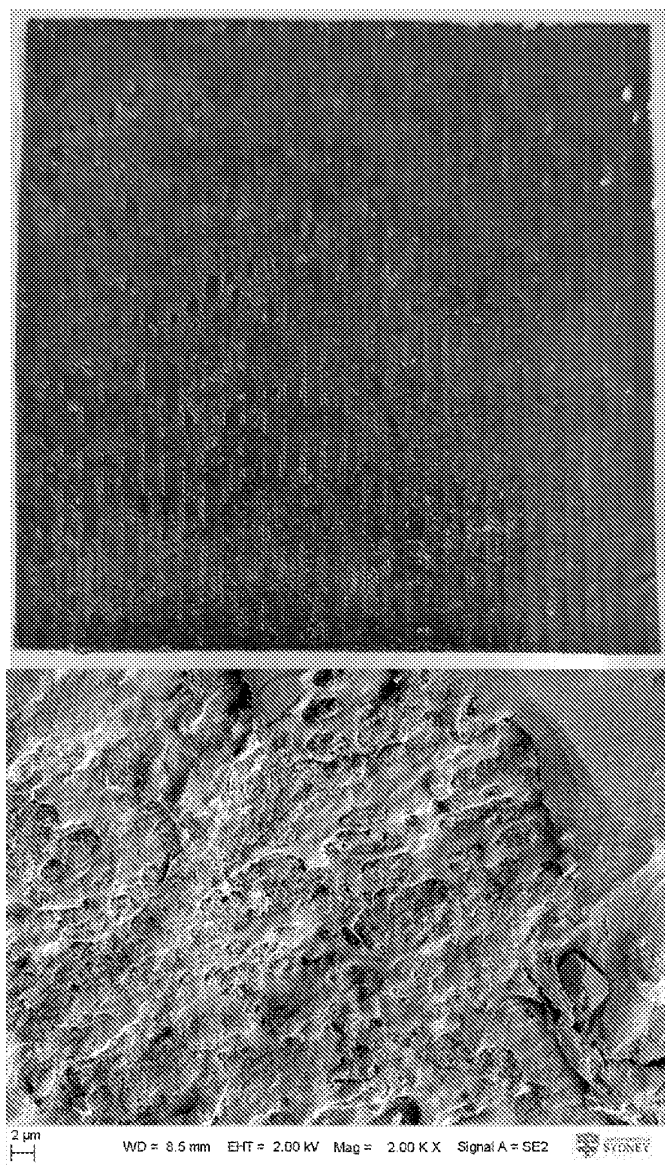
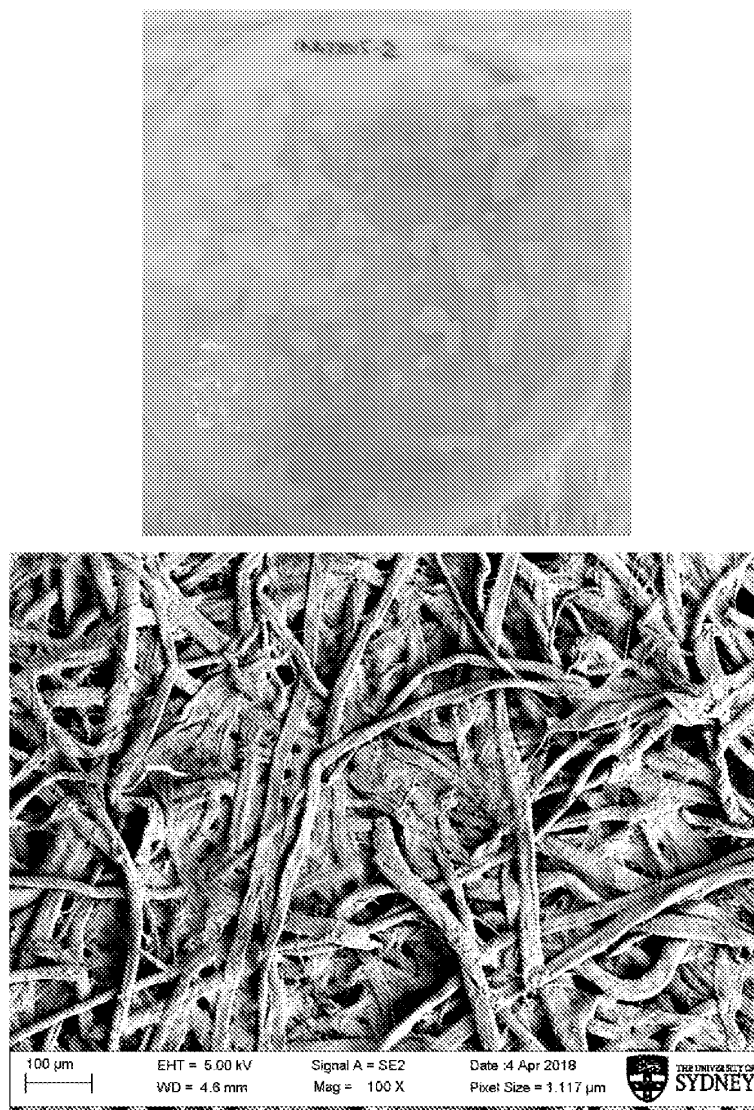
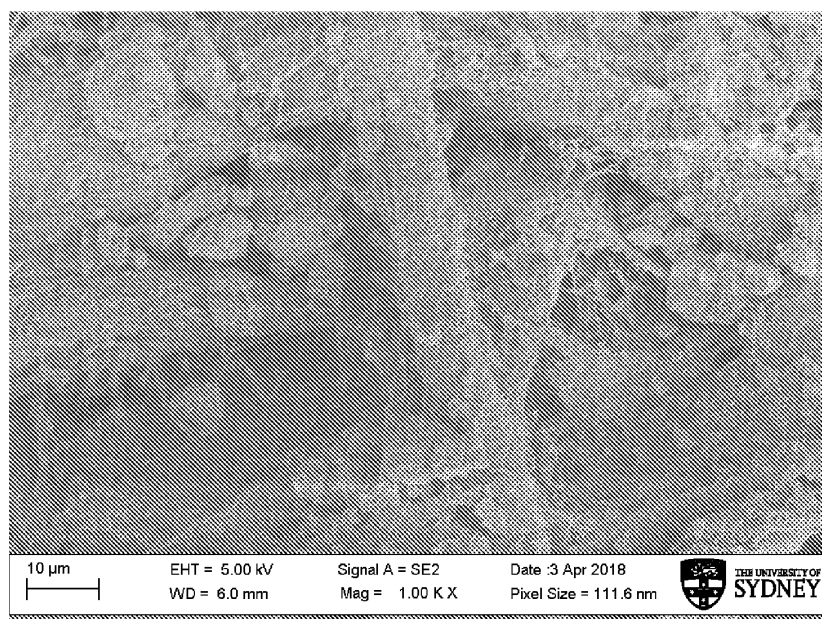
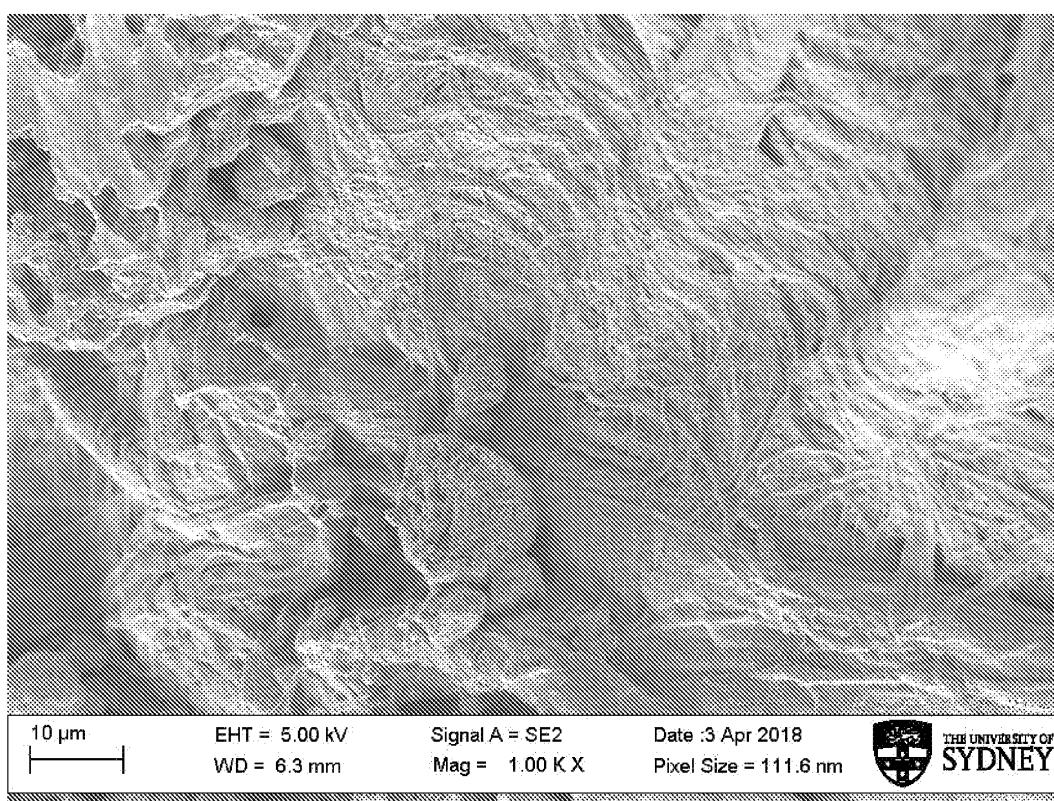
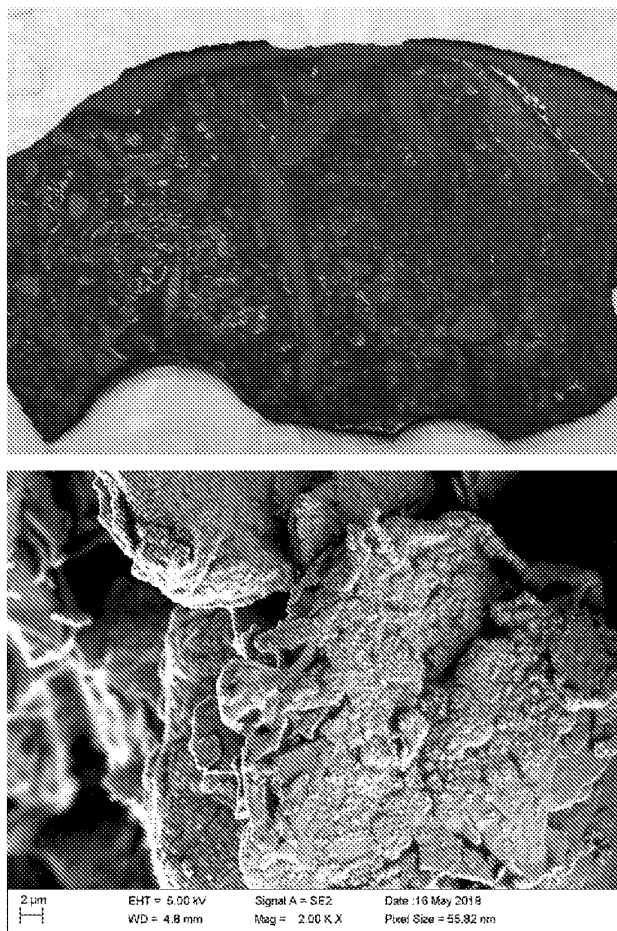


Figure 2.

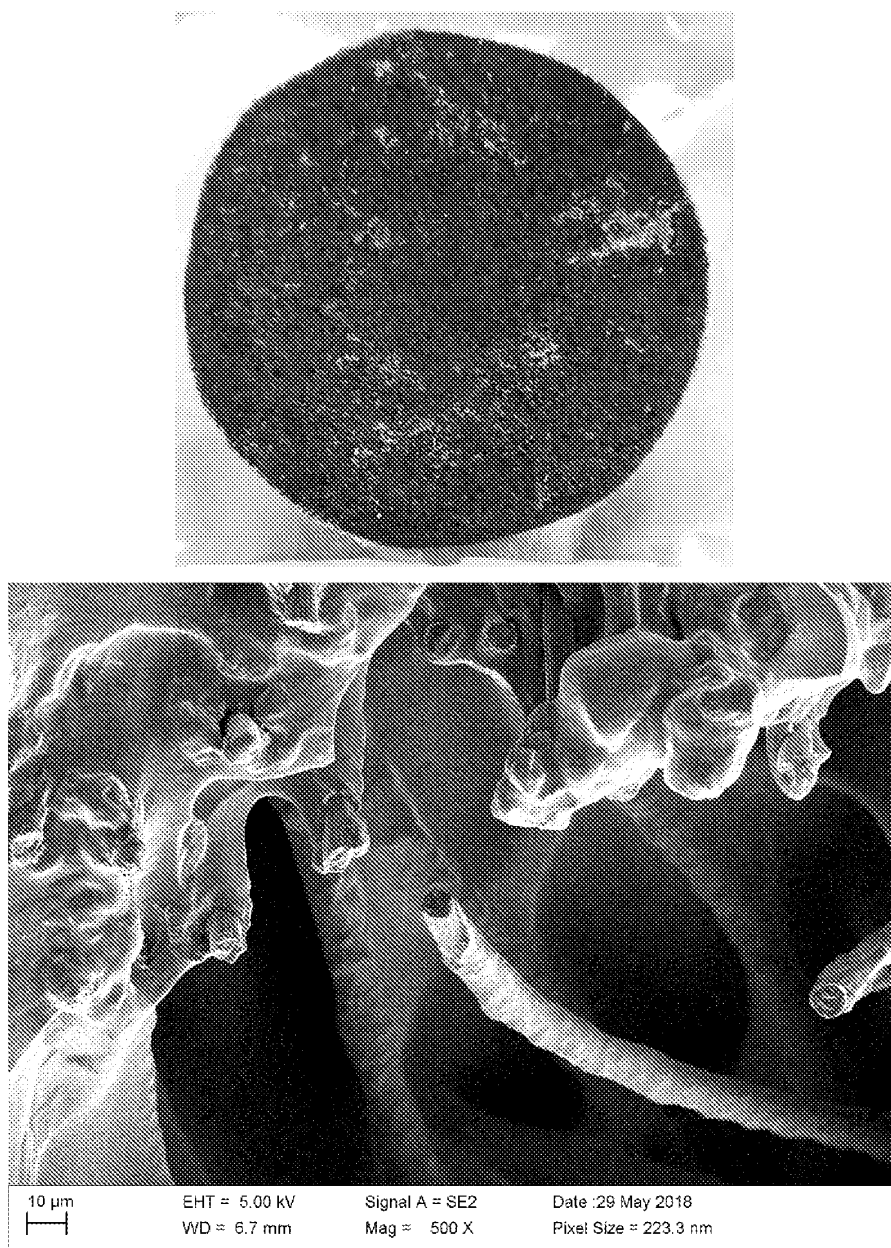
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**Figure 3.**

**Figure 4.****Figure 5.**

**Figure 6.**

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**Figure 7.**

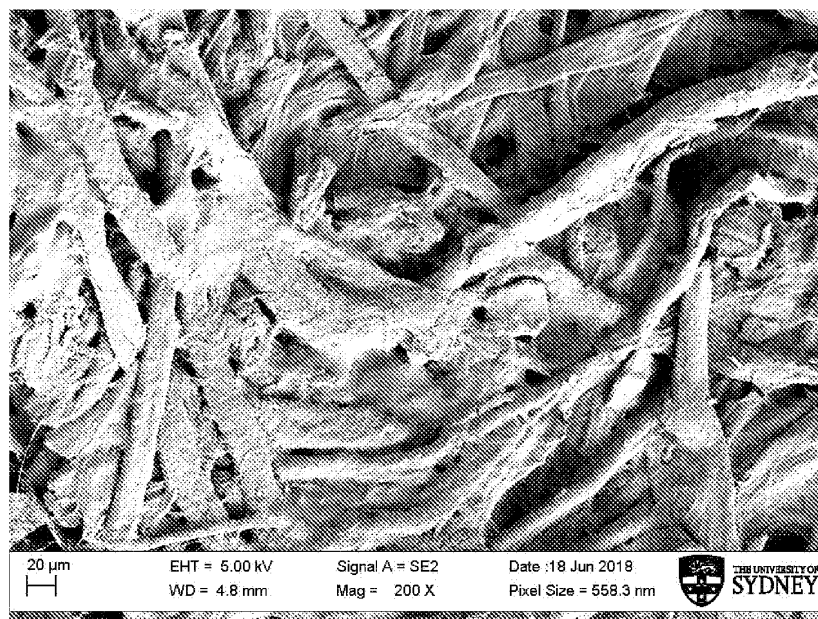


Figure 8.

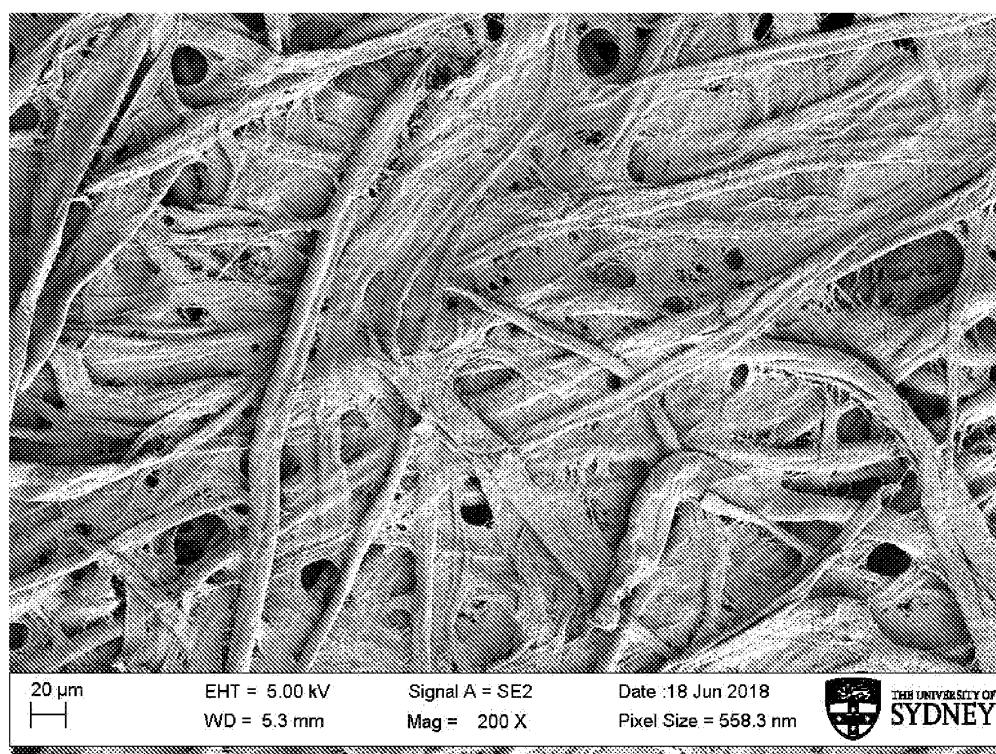


Figure 9.

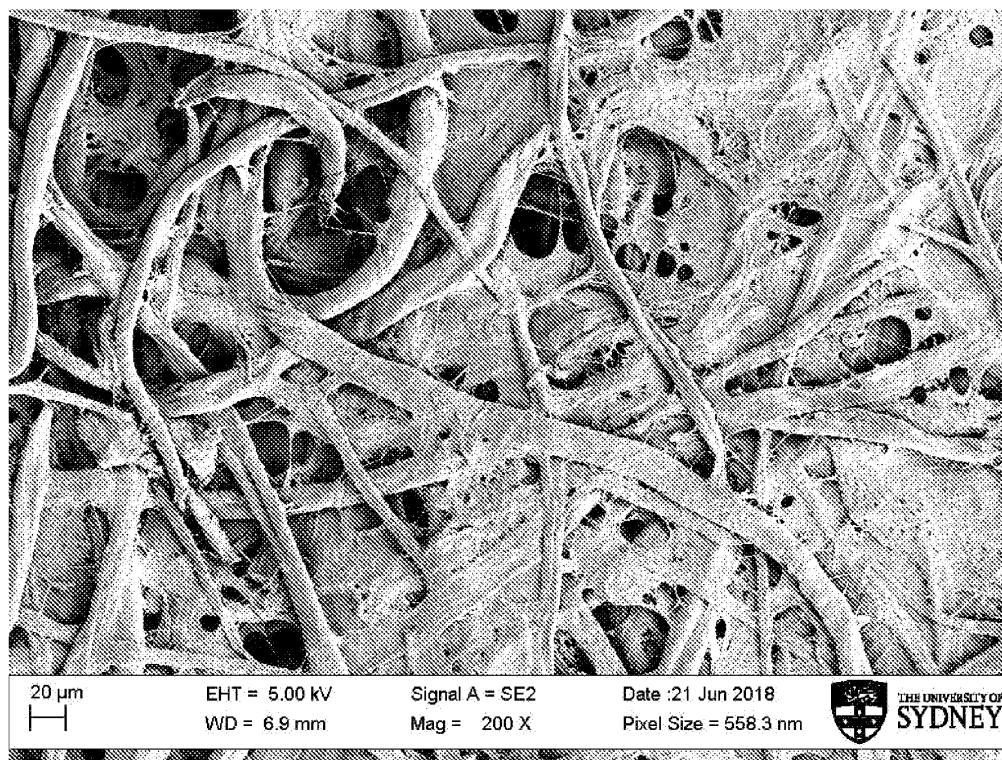


Figure 10.

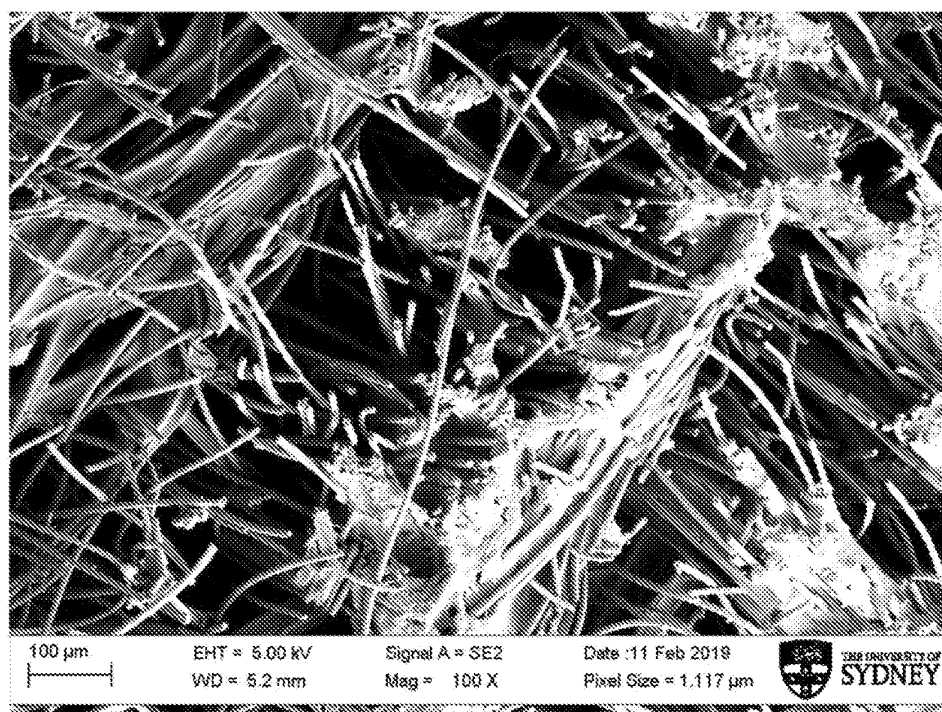


Figure 11.

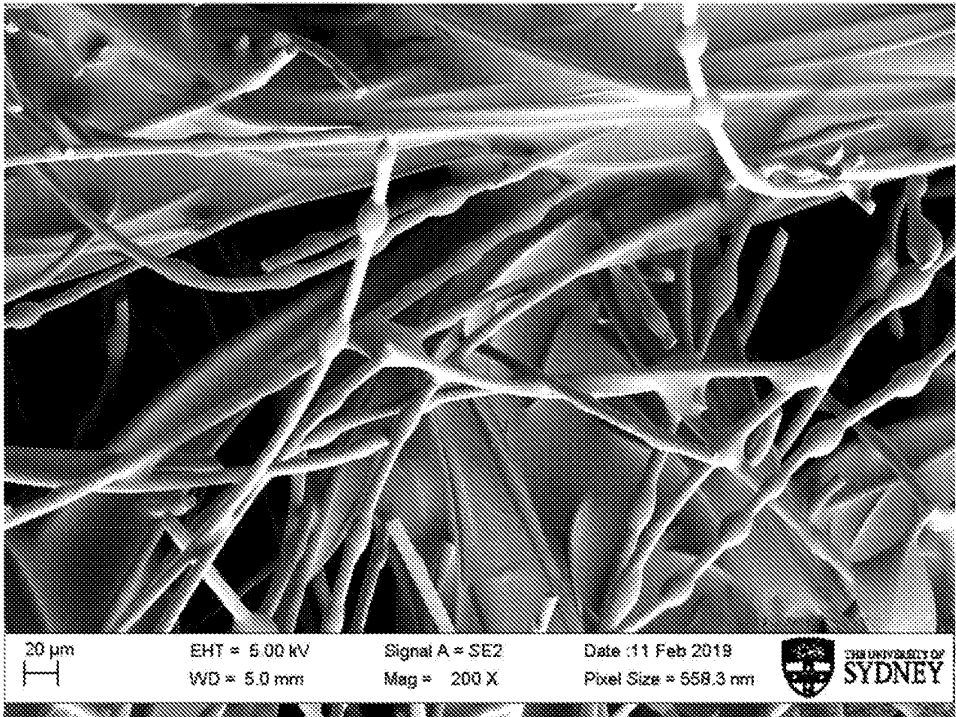


Figure 12.

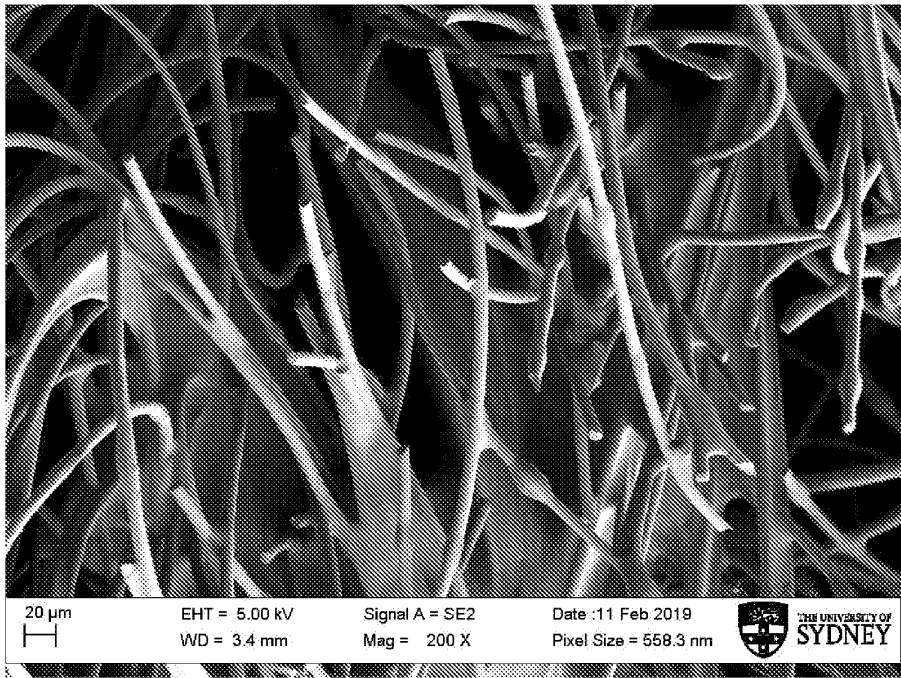


Figure 13.

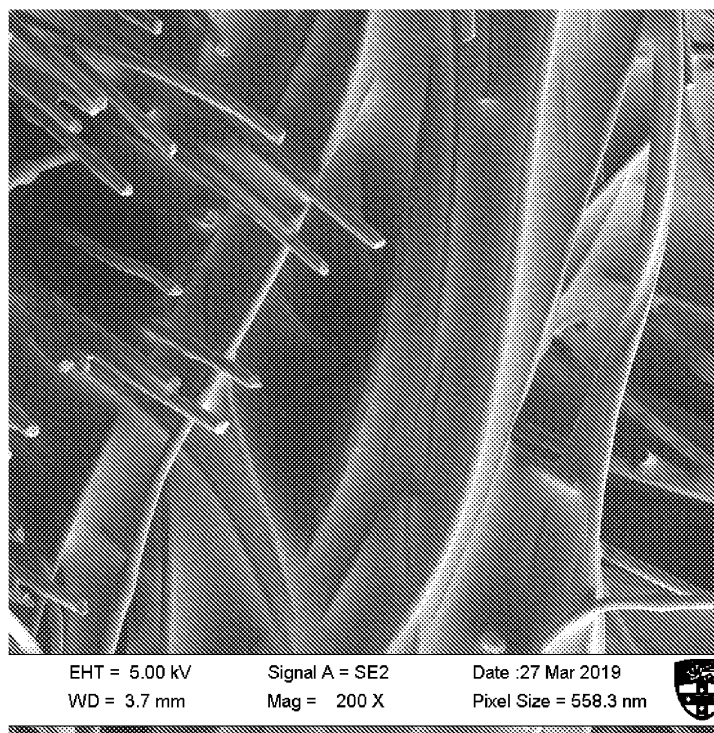


Figure 14.

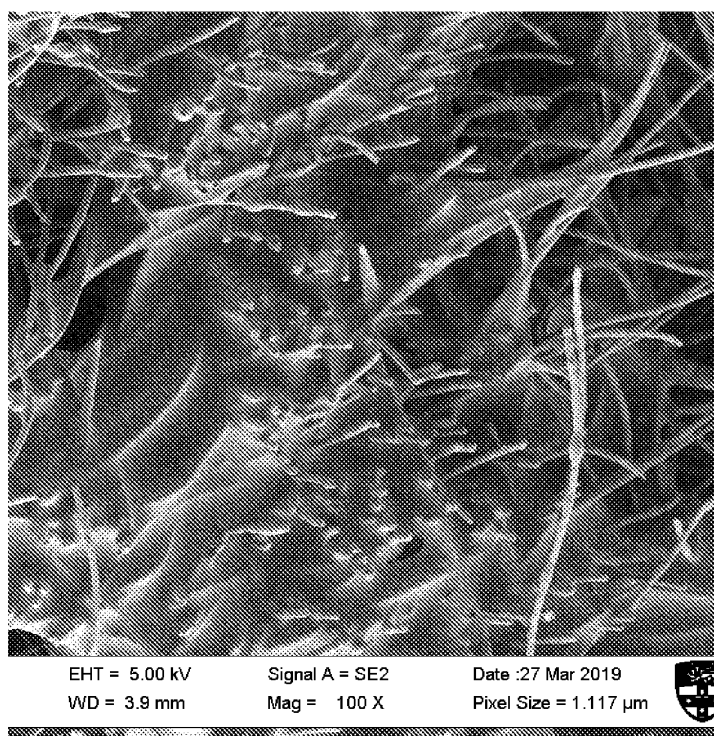


Figure 15.

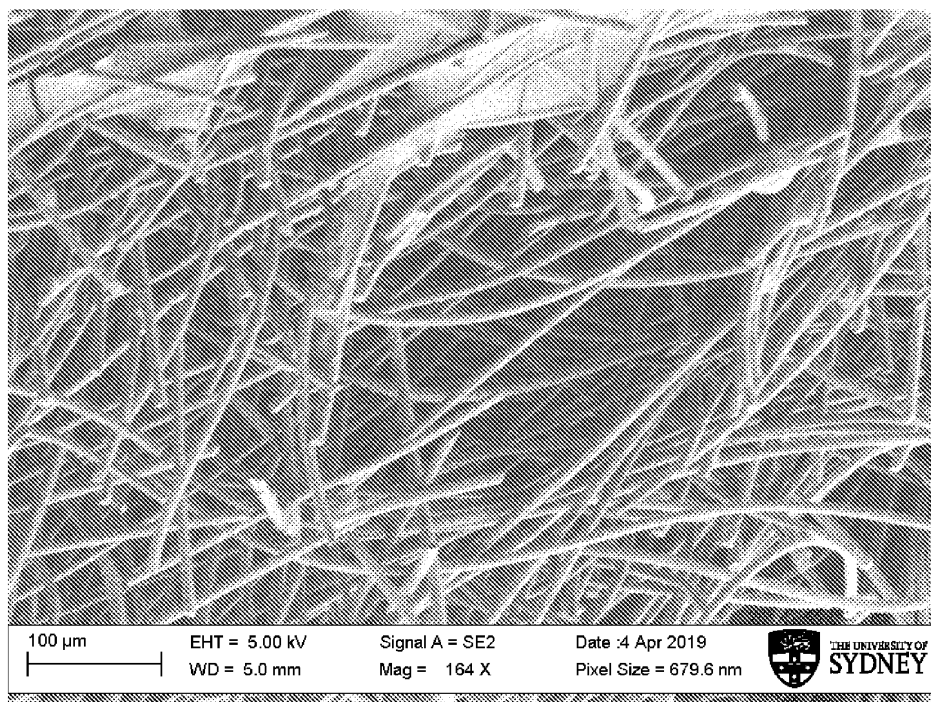


Figure 16.

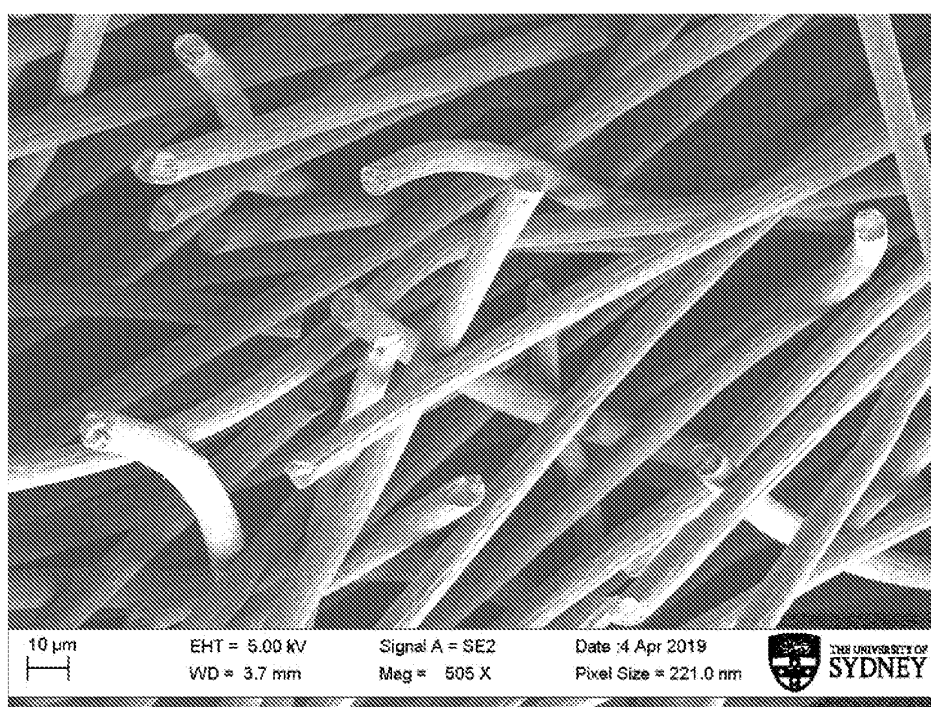


Figure 17.

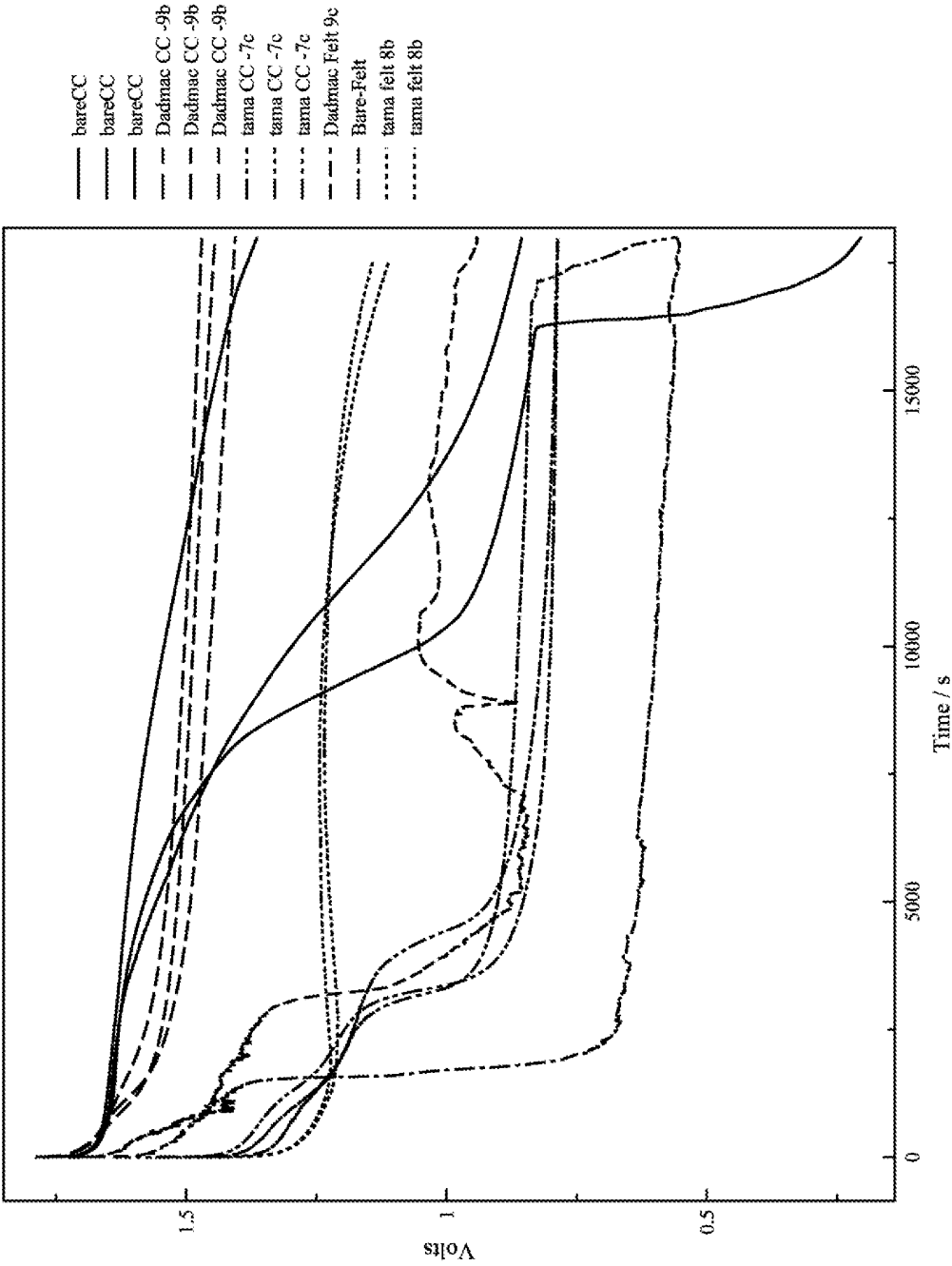


Figure 18.

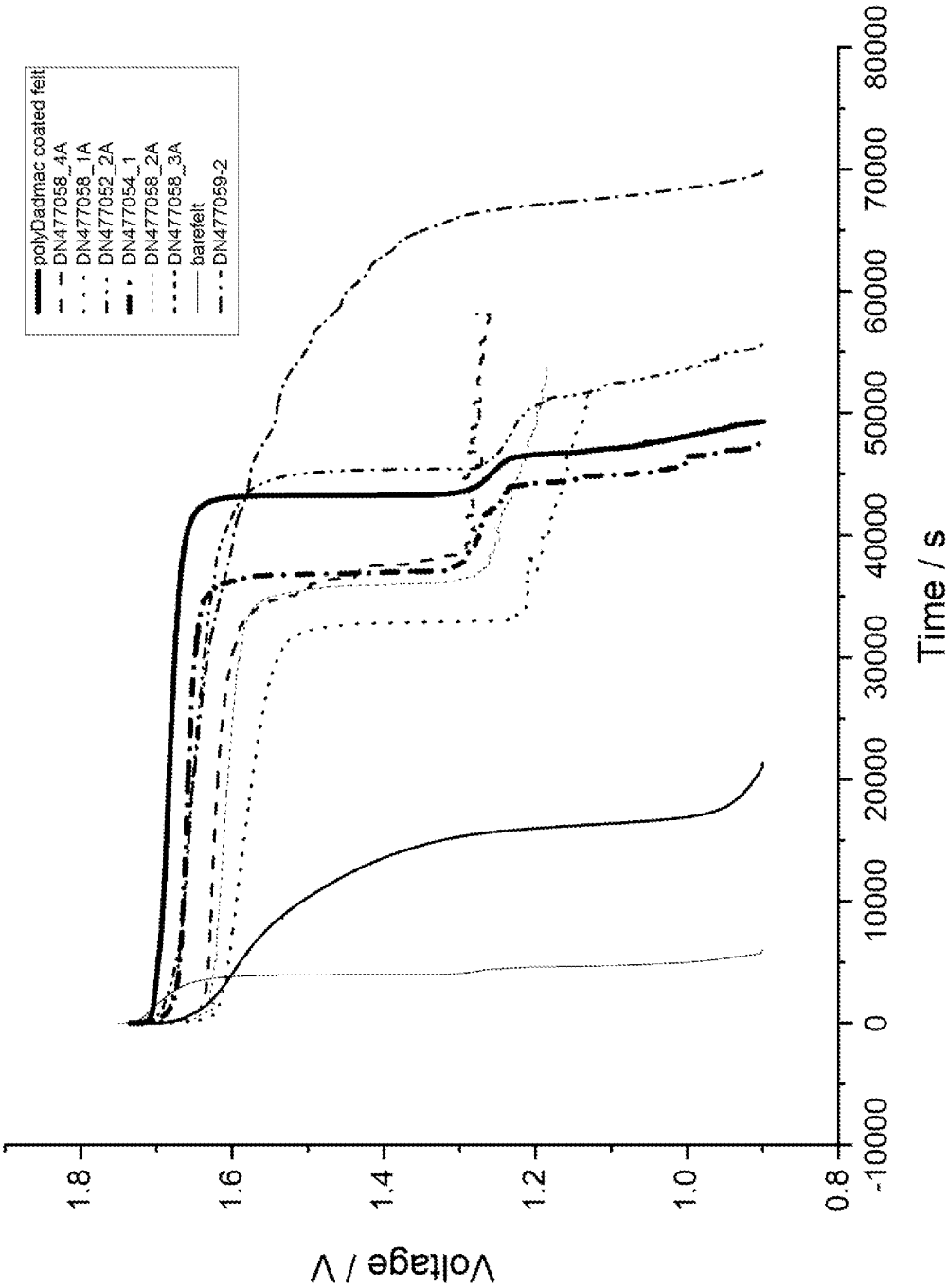


Figure 19.

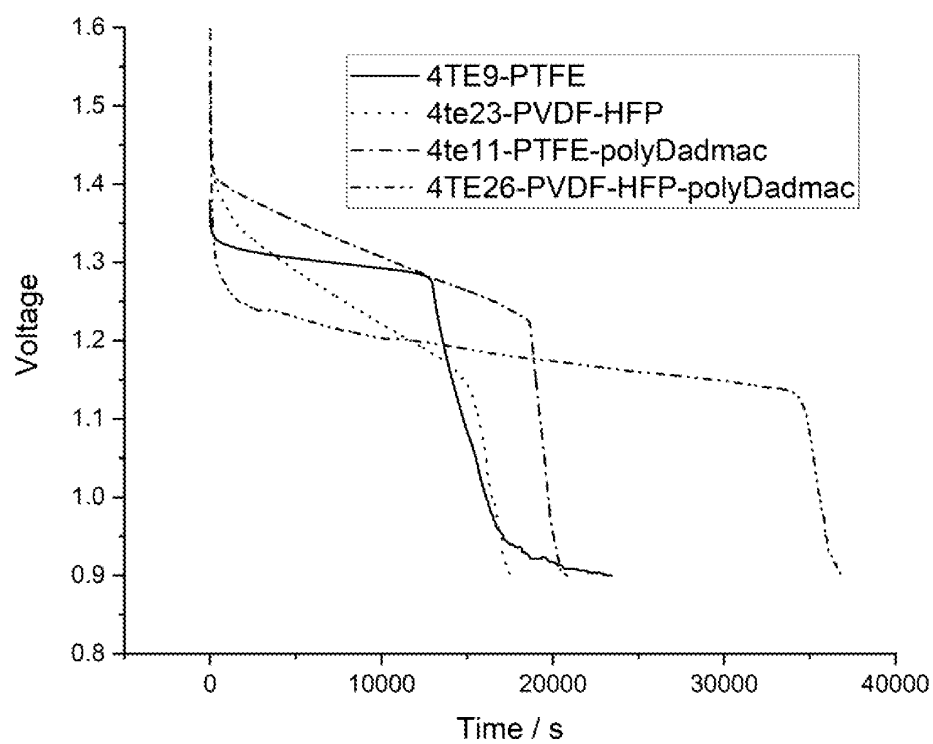


Figure 20.

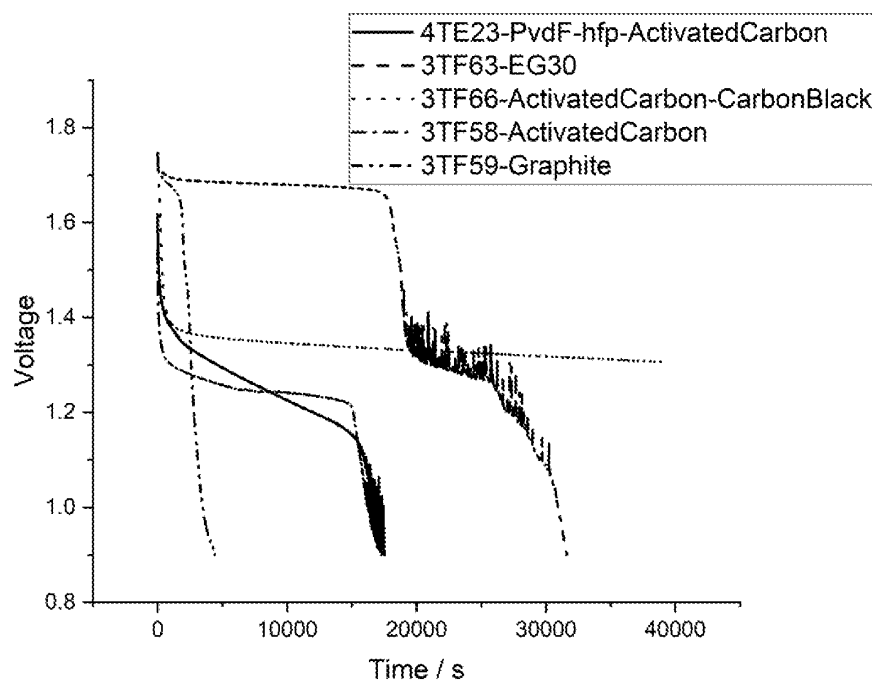


Figure 21.

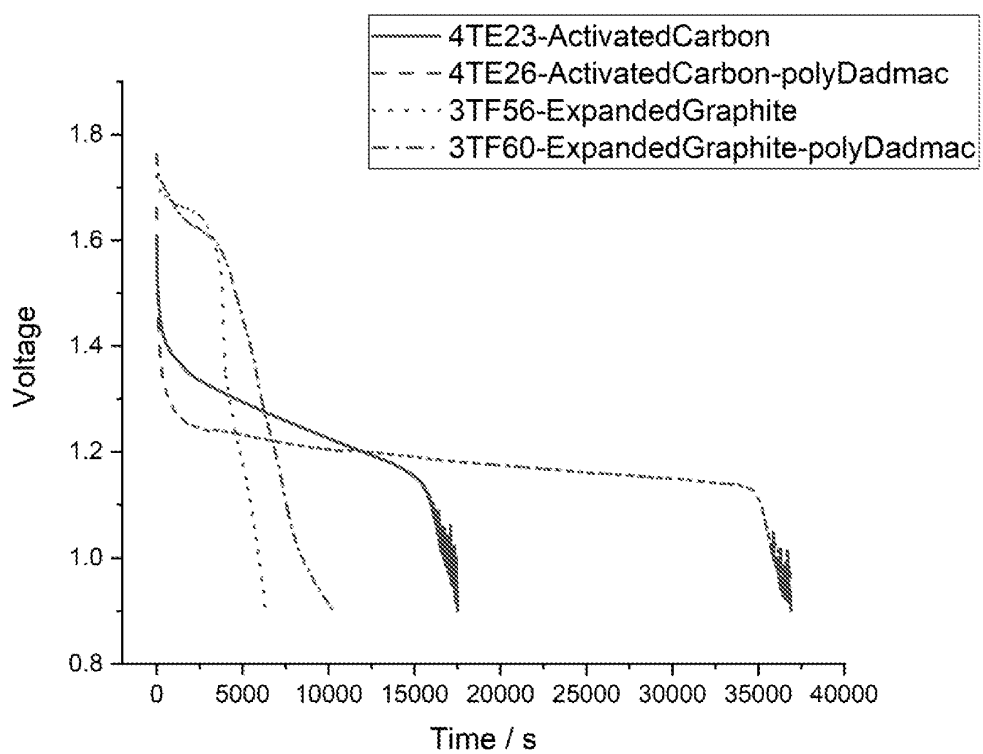


Figure 22.

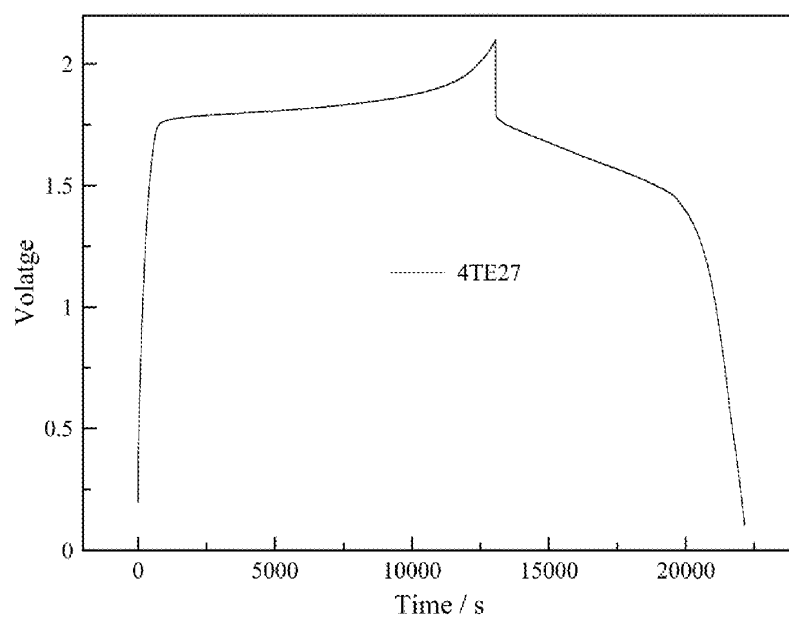


Figure 23.