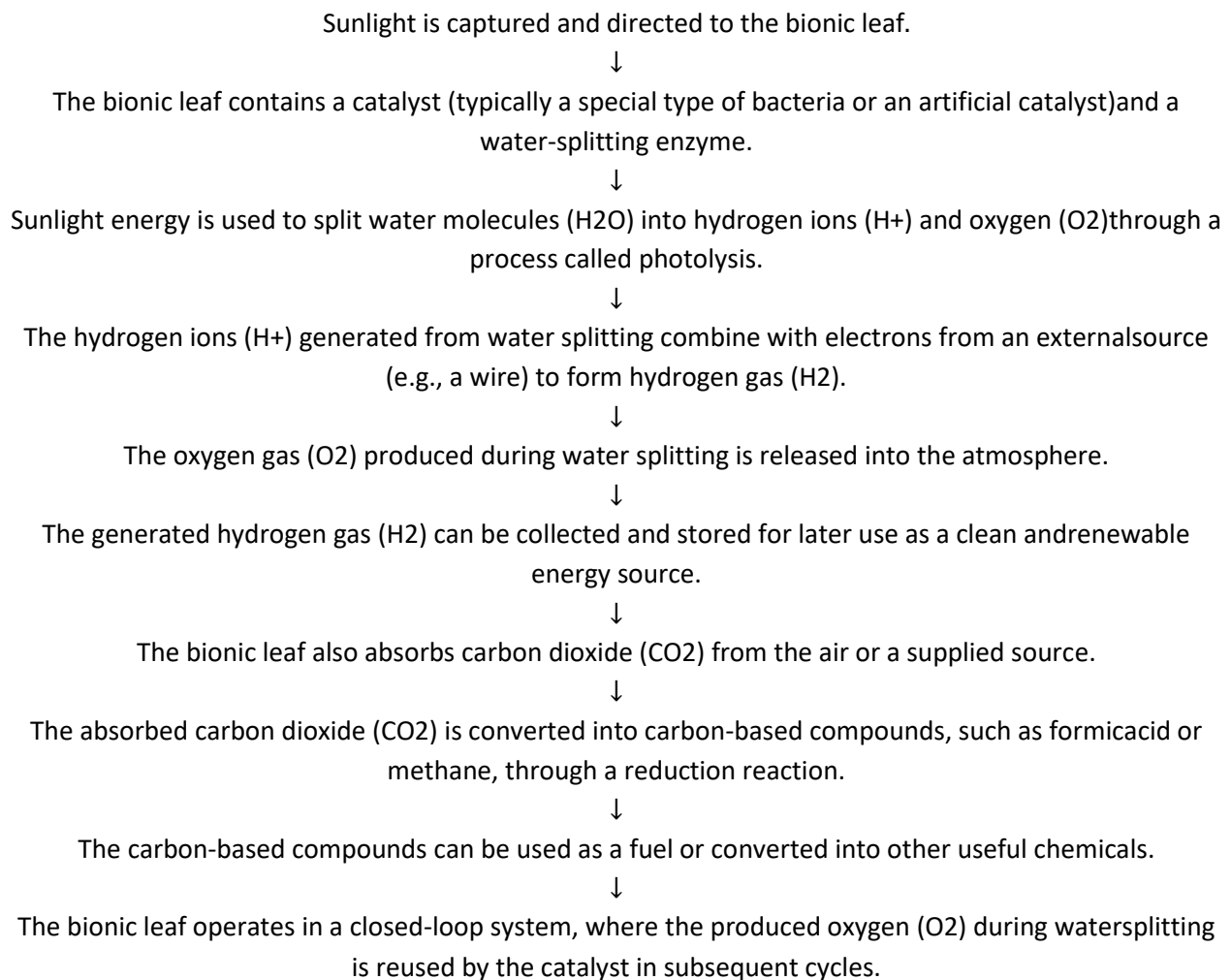


process of water splitting, where water molecules are separated into hydrogen and oxygen.

- This process is facilitated by the presence of enzymes or other catalysts that act as a bridge between the electrical energy and the water splitting reaction.
- The hydrogen produced by the bionic leaf can then be stored and used as a source of energy for a variety of applications, such as powering vehicles or generating electricity.
- Additionally, the oxygen produced by the bionic leaf can be released into the atmosphere, where it can help to mitigate the effects of climate change by reducing the levels of atmospheric carbon dioxide.
- A flow chart of the working principle of bionic leaf is given below:



process of water splitting, where water molecules are separated into hydrogen and oxygen.

- This process is facilitated by the presence of enzymes or other catalysts that act as a bridge between the electrical energy and the water splitting reaction.
- The hydrogen produced by the bionic leaf can then be stored and used as a source of energy for a variety of applications, such as powering vehicles or generating electricity.
- Additionally, the oxygen produced by the bionic leaf can be released into the atmosphere, where it can help to mitigate the effects of climate change by reducing the levels of atmospheric carbon dioxide.
- A flow chart of the working principle of bionic leaf is given below:

