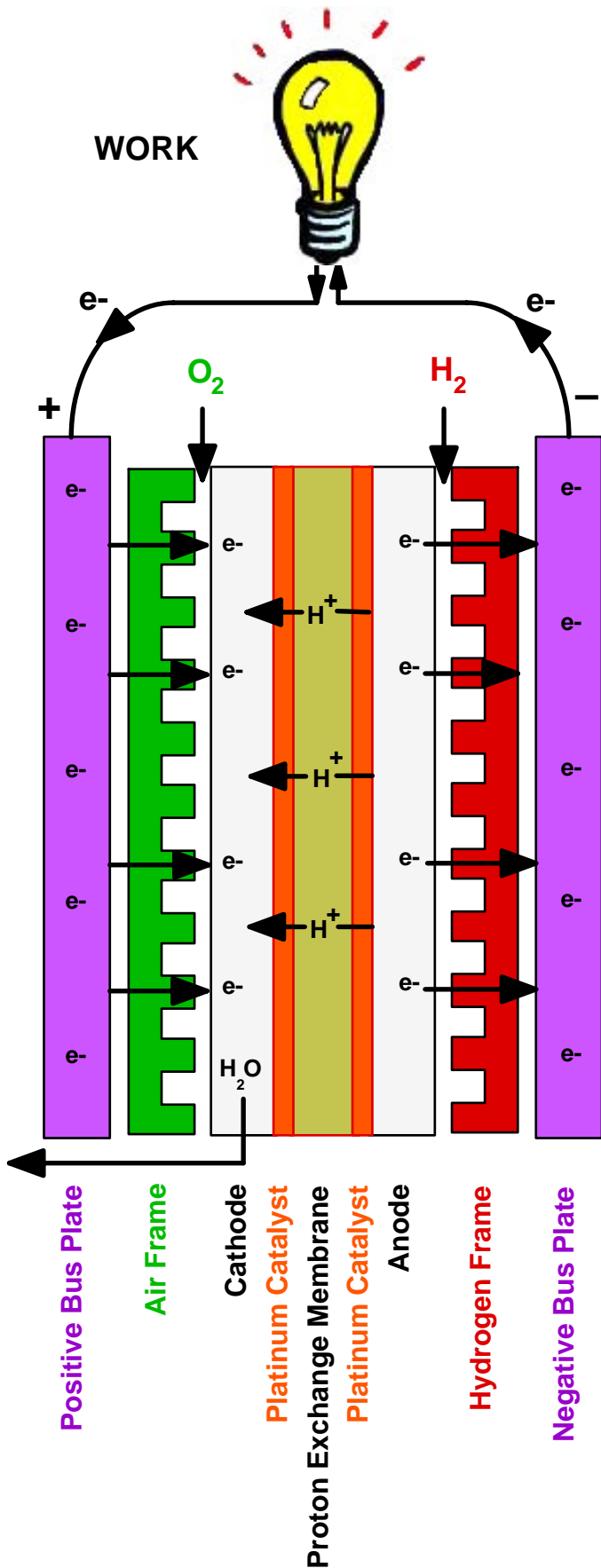


The Proton Exchange Membrane Fuel Cell



At the anode hydrogen molecules give up electrons and form hydrogen ions, a process made possible by the platinum catalyst.

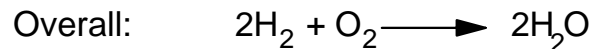
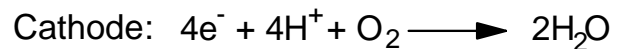
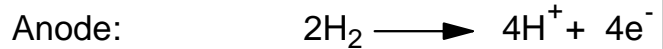
The electrons travel to the cathode through an external circuit, producing electrical work as they pass through the light bulb.

The hydrogen ions flow through the proton exchange membrane to the cathode, where they combine with oxygen and electrons to form water.

In this way, hydrogen's natural tendency to oxidize and form water produces electricity and useful work.

No pollution is produced and the only byproducts are water and heat.

The chemical reactions:



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