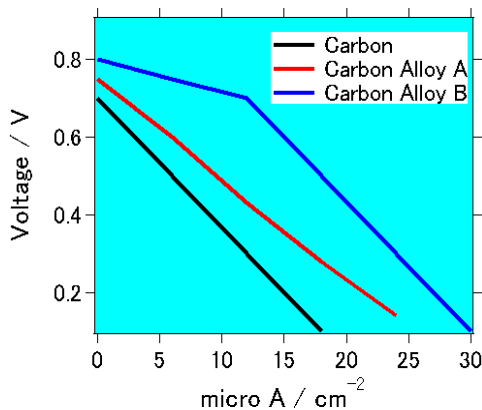


## Carbon Alloy Catalyst

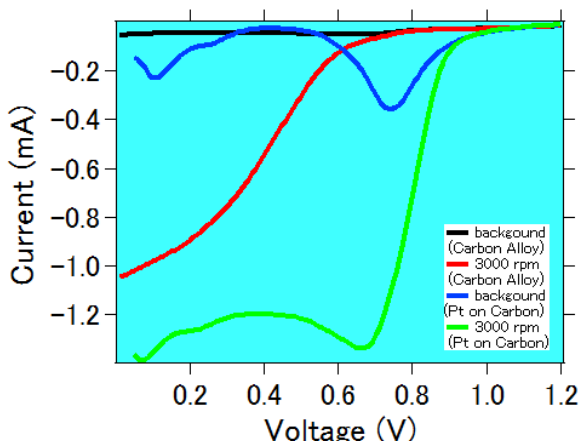
We have developed the carbon alloy catalysis (CAC) which can be replaced with platinum catalyst. Our CAC can exhibit high oxygen reduction activity without using any expensive platinum so that polymer electrolyte fuel cell (PEFC) can be manufactured with cheaper cost. Our carbon alloy catalysis can be applied to the cathode of fuel cell, metal air battery, catalyst for automobile exhaust gas and selective oxidation catalyst of benzyl alcohol etc... All of these applications necessitates large quantity of expensive platinum. Surely our carbon alloy catalyst have large influence towards these industries in the positive way.

Following experimental results explains that our catalytic activity can be comparable to Pt based catalyst even the efficiency is lower. Although since the cost of our catalyst is much cheaper than Pt based catalyst, we will keep

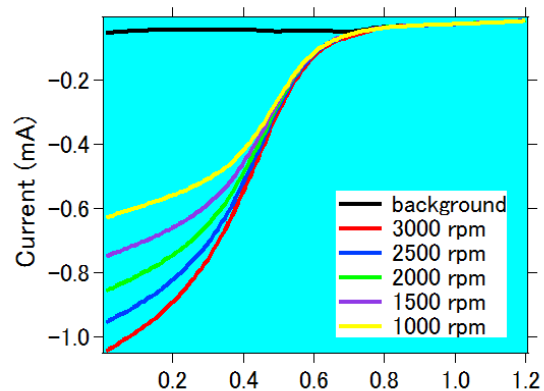
chasing for higher catalytic activity. Please consult with us including any technical detail anytime.



Experimental results of applying our CAC for our aluminium air battery cathode electrode.



Comparison of Pt based catalyst and carbon alloy catalyst



Catalytic result of carbon alloy catalyst experimented with rotation disk electrode (rotation dependency)