



Showcasing research from New Field Pioneering Div.,  
Toyota Boshoku Corp., Aichi, Japan.

Sustainable activation of the  $\text{PtCl}_n/\text{Fe-N-C}$  cathode for  
PEFCs through repeated subnanometer sizing  
and coarsening

We found that platinum ions that dissolve from platinum  
chloride are redeposited and interact with iron and  
nitrogen sites in the iron-nitrogen-carbon support as  
subnanometer platinum particles. This results in an increased  
electrochemical surface area and specific activity for the  
oxygen reduction reaction.

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