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Full paper

Degradation and Mineralization of Aqueous Phenol by an Atmospheric Pressure Catalytic Plasma Reactor

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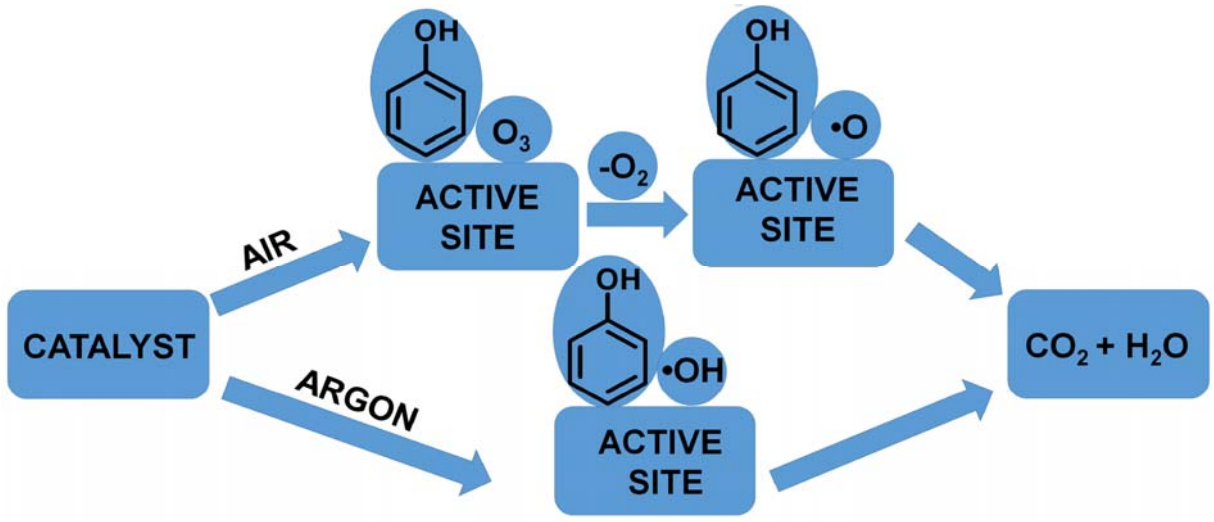
Graphical abstract



Highlights

- Phenol degradation and mineralization was carried out by using plasma reactor.
- The addition of modified ceria catalyst, improve the efficiency of phenol degradation.
- Oxidizing species H_2O_2 and •OH were quantified
- Active species present in both gas and liquid phase were identified by OES.