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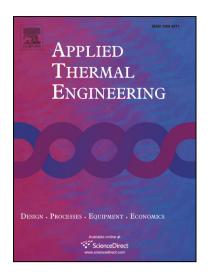
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### **ACCEPTED MANUSCRIPT**

# Performance degradation and recovery characteristics during gas purging in a proton exchange membrane fuel cell with a dead-ended anode

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