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Ben Chen, Zhengkai Tu, Siew Hwa Chan

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

Ben Chen^{1,2}, Zhengkai Tu^{2,3*}, Siew Hwa Chan³

¹ Hubei Key Laboratory of Advanced Technology for Automotive Components,
Wuhan University of Technology, Wuhan, 430070, China

² State Key Laboratory of Advanced Technology for Materials Synthesis and
Processing, Wuhan University of Technology, Wuhan, 430070, China

³ Energy Research Institute @ Nanyang Technological University, 50 Nanyang
Avenue, 637553, Singapore

*Corresponding author. Tel.: +86 (0) 15102756731; fax: +86 27 87879468

E-mail: tzklq@whut.edu.cn (Z. Tu)

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