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Review

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Application of anaerobic membrane bioreactors to municipal wastewater treatment at ambient temperature: a review of achievements, challenges, and perspectives

Zhen Lei^a, Shuming Yang^a, Yuyou Li^b, Wen Wen^a, Xiaochang C. Wang^c, Rong Chen^{a,*}

^aInternational S&T Cooperation Center for Urban Alternative Water Resources Development, Key Lab of Environmental Engineering, Shaanxi Province, Xi'an University of Architecture and Technology, No.13 Yanta Road, Xi'an 710055, PR China

^bDepartment of Civil and Environmental Engineering, Graduate School of Engineering, Tohoku University, 6-6-06 Aza-Aoba, Aramaki, Aoba-ku, Sendai, Miyagi 980-8579, Japan

^cKey Laboratory of Northwest Water Resource, Environment and Ecology, MOE, Xi'an University of Architecture and Technology, Xi'an 710055, PR China

*Corresponding author:

E-mails: chenrong@xauat.edu.cn

Telephone: +86 29 82202507

Fax numbers: +86 29 82202729

Abstract: This review surveys the implementation of anaerobic membrane bioreactors in municipal wastewater treatment at ambient temperature. High chemical oxygen demand (COD) removal efficiencies and methane conversion rates were achieved under various conditions, while also achieving a low sludge yield of 0.04–0.09 g volatile suspended solids (VSS)/g COD. A survey of energy demands for pilot-scale anaerobic membrane bioreactors showed that they could be energy neutral or even positive, even

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