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Authors: Yulin Huang, Xike Tian, Yulun Nie, Chao Yang, Yanxin Wang



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**Enhanced peroxymonosulfate activation for phenol degradation over MnO₂ at
pH 3.5-9.0 via Cu(II) substitution**

Yulin Huang^a, Xike Tian^{a,*}, Yulun Nie^a, Chao Yang^a, Yanxin Wang^b

^a Faculty of Materials Science and Chemistry, China University of Geosciences,

Wuhan 430074, P. R. China.

^b School of Environmental Studies, China University of Geosciences, Wuhan 430074,

P.R. China.

*Corresponding author: Prof. Xike Tian

E-mail: xktian@cug.edu.cn

Tel.: +86-27-6788-4574, Fax: +86-27-6788-4574

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