

Article

Supplementary Materials: Supporting Information Sedum plumbizincicola Derived Functional Carbon for Activation of Peroxymonosulfate to Eliminate Bisphenol A: Performance and Reaction Mechanisms

Chao Liu ^{1,2,†}, Zhenxiang Chen ^{3,†}, Ruiqin Kang ¹, Yongsheng Niu ^{1,*}, Wenhui Su ¹, Xiaolong Wang ¹, Dayong Tian ¹ and Ying Xu ^{2,*}

¹ Department of Environmental Engineering, College of Chemistry and Environmental Engineering, Anyang Institute of Technology, Anyang 455000, China; ayitlc@163.com (C.L.); krq1030@163.com (R.K.); swl@ayit.edu.cn (W.S.); wxl@ayit.edu.cn (X.W.); tiandayong@163.com (D.T.)

² College of Chemistry and Chemical Engineering, Henan University, Kaifeng 475004, China

³ Jiangsu Xingzhou Ecological Environment Technology Co., Ltd., Nanjing 210004, China; czx0917@163.com

* Correspondence: nys2205@163.com (Y.N.); hdxccxu@126.com (Y.X.)

† These authors contributed equally to this work.

Supporting Information Text S1 Details of electrochemical experiment.

Nafion solution (5.0 wt%, 0.1 mL) was mixed with ethanol (1 mL) and SPFCx (10 mg). Then, they were dispersed by ultrasound for 1 h to obtain a well-mixed suspension solution. After that 20 μ L suspension solution was dropped onto the glassy carbon electrode and then dried at 80 °C. All experiments were performed in 40 mM Na₂SO₄ solution (40 mL). Electrochemical impedance spectroscopy (EIS) was conducted at open potential with a frequency range of 10⁶ to 10⁻¹ Hz. Linear sweep voltammetry (LSV) was measured at the potential from -2-2 V (vs. Ag/AgCl). The open-circuit potentials of SPFCx were measured via open circuit potential-Time analysis. In addition, I-T curves were carried out at the bias of 0.0 V (vs. Ag/AgCl) and lasted 250 s.

Citation: Liu, C.; Chen, Z.; Kang, R.; Niu, Y.; Su, W.; Wang, X.; Tian, D.; Xu, Y. Sedum Plumbizincicola Derived Functional Carbon for Activation of Peroxymonosulfate to Eliminate Bisphenol A: Performance and Reaction Mechanisms. *Coatings* **2022**, *12*, 1892. <https://doi.org/10.3390/coatings12121892>

Academic Editor: Alexandru Enesca

Received: 27 October 2022

Accepted: 28 November 2022

Published: 5 December 2022

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2022 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).