

## Lecturer WU Xiaoge

College	College of Environmental Science & Engineering
Current Position	Lecturer
Types of Tutor	Master Tutor
Language	Chinese/English
Education	<p><b>PhD</b>  <b>Institution</b> Faculty of Health and Life Sciences, Coventry University, UK (09/2007-06/2011)</p> <p><b>First Degree</b>  <b>BSc in Applied Chemistry</b>, Nanjing University of Technology, China (2003-2007), average credits over 80</p>
Research Interests	Study on the chemical reaction and electron transfer mechanism at the cell membrane interface of environmental microorganism
Selected Publications	<ol style="list-style-type: none"> <li>1. <b>Xiaoge Wu</b>, Junli Liu, and Jun-Jie Zhu, Sono-Fenton hybrid process on the inactivation of <i>Microcystis aeruginosa</i>: Extracellular and intracellular oxidation. <i>Ultrasonics Sonochemistry</i>, 2019 (<b>IF 7.279</b>)</li> <li>2. <b>Xiaoge Wu</b>, Guofeng Xu, and Jun-Jie Zhu, Sonochemical synthesis of Fe<sub>3</sub>O<sub>4</sub>/Carbon nanotubes using low frequency ultrasonic devices and their performance for heterogeneous Sono-Persulfate process on inactivation of <i>Microcystis aeruginosa</i>. <i>Ultrasonics Sonochemistry</i>, 2019 (<b>IF 7.279</b>)</li> <li>3. Jianhua H., Rui W., <b>Xiaoge Wu</b>, Tahir M., et al. Lantern-like bismuth oxyiodides embedded typha-based carbon via in-situ self-template and ion exchange-recrystallization for high-performance photocatalysis. <i>Dalton Transactions</i>, 2018, (第二通讯, <b>IF 4.099</b>, 二区)</li> </ol>

4. Jianhua Hou , Kun Jiang , Rui Wei , Muhammad Tahir, Shen Ming, **Xiaoge Wu**, Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors, *ACS Applied Materials & Interfaces*, 2017 (第二通讯, IF 8.097, 一区)
5. **Xiaoge Wu** and T. Mason. Evaluation of Power Ultrasonic Effects on Algae Cells at a Small Pilot Scale. *Water*, 2017 (IF 2.069, 四区)
6. **Xiaoge Wu**, A. Giridhar Babu, Bo-Lam Kim, Jin-Oh Kim and Jennifer H. Shin, Dong-Pyo Kim\*, Ultrasound-mediated intracellular delivery of fluorescent dyes and DNA into microalgal cells, *Algal Research*, 2016 (IF 3.374, 二区)
7. **Xiaoge Wu**, Eadaoin M. Joyce\*, and Timothy. J. Mason, Evaluation of ultrasonic effects on *Microcystis aeruginosa* using different ultrasonic parameters (frequencies and intensities) and mechanism studies using flow cytometry, *Water Research*, 2012 (IF 7.051, 一区)
8. **Xiaoge Wu**, Eadaoin M. Joyce\* and Timothy J. Mason, The effects of ultrasound on cyanobacteria. *Harmful Algae*, 2011 (IF 4.138, 三区)
9. Giridhar B. A., **Xiaoge Wu**, Kabra, A. N., Dong-Pyo K, Cultivation of an indigenous *chlorella sorokiniana* with phytohormones for biomass and lipid production under N-limitation. *Algal Research*, 2017 (IF 3.374, 二区)
10. Kurokawa, Masaki, Patrick M. King, **Xiaoge Wu**,

	<p>Eadaoin M. Joyce, Timothy J. Mason, and Ken Yamamoto, Effect of sonication frequency on the disruption of algae. <i>Ultrasonics Sonochemistry</i>, 2016 (IF 6.012, 二区)</p> <p>11. Ken Yamamoto*, Patrick M. King, <b>Xiaoge Wu</b>, Timothy J. Mason, Eadaoin M. Joyce, Effect of ultrasonic frequency and power on the disruption of algal cells, <i>Ultrasonics Sonochemistry</i>, 2015 (IF 6.012, 二区)</p>
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