

PERSONAL:

Name: **Chunyong Zhang**
Department: Department of Chemistry, College of Sciences
Gender: Male
Degree: Ph.D.
Title: Associate Professor
Major: Environmental Electrochemistry
Graduated: Southeast University
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RESEARCH INTERESTS:

Environmental Electrochemistry;
Diamond Electrochemistry: especially its application in waste water treatment.
Modern experimental design and analysis;
Fractal analysis and characterization;
Computational Chemistry.

PROFESSIONAL EXPERIENCE:

2011-now Associate professor, College of Sciences, Nanjing Agricultural University
2007-2010 Lecturer, College of Sciences, Nanjing Agricultural University
2005-2006 Aid education, College of Chemical Engineering, Xinjiang Agricultural University
2004-2006 Teaching assistant, College of Sciences, Nanjing Agricultural University

TEACHING:

- 《Organic Chemistry》
- 《Materials Chemistry》
- 《Polymer Chemistry》
- Take responsibility for several SRT projects, have supervised more than 20 undergraduate students to complete their graduation dissertations.

RESEARCH PROJECTS:

- (3) Study on the electrolyte effects during electrocatalytic oxidation processes with boron-doped diamond electrode. (Fundamental Research Funds for the Central Universities, KYZ201648, 201601~201812, in process);
- (2) Application of boron-doped diamond electrode to the treatment of dialysis wastewater. (Open Research Fund of State Key Laboratory of Bioelectronics, Southeast University, 2016B08, 2016.01~2017.12, done);
- (1) Application of boron-doped diamond electrode to the treatment of urban wastewater in areas around Taihu Lake (Fundamental Research Funds for the Central Universities, KYZ201219, 2014.01~2016.12, done)

PUBLICATIONS:

24. Jiahui Xian, Min Liu, Wei Chen, **Chunyong Zhang***, Degang Fu. Chemometric study on the electrochemical incineration of diethylenetriaminepentaacetic acid using boron-doped diamond anode, *Chemosphere*, **2018**, 198: 257-265
23. **Chunyong Zhang***, Wei Chen, Jiahui Xian, Degang Fu. Application of a novel definitive screening design to *in situ* chemical oxidation of Acid orange-II dye by a Co^{2+} /PMS system, *RSC Advances*, **2018**, 8: 3934-3940
22. **Chunyong Zhang***, Jiahui Xian, Min Liu, Degang Fu. Formation of brominated oligomers during phenol degradation on boron-doped diamond electrode, *Journal of Hazardous Materials*, **2018**, 344: 123-135
21. Zhefeng Zhang, Jiahui Xian, **Chunyong Zhang***, Degang Fu. Degradation of creatinine using boron-doped diamond electrode: Statistical modeling and degradation mechanism, *Chemosphere*, **2017**, 182: 441-449
20. **Chunyong Zhang***, Zhefeng Zhang, Mengna Chen, Degang Fu. The influence of fractal nature on schwertmannite adsorption properties, *RSC Advances*, **2017**, 7(45): 27895-27899
19. **Chunyong Zhang***, Zhefeng Zhang, Zhenzhu He, Degang Fu. New insights into the relationship between anode material, supporting electrolyte and applied current density in anodic oxidation processes, *Electrochimica Acta*, **2017**, 229: 55-64
18. Xiaoming Du, Zhefeng Zhang, **Chunyong Zhang***, Degang Fu. Definitive screening design applied to electrochemical degradation of Chromotrope 2R with BDD anodes, *Chemosphere*, **2017**, 171: 362-369
17. **Chunyong Zhang***, Xiaoming Du, Zhefeng Zhang, Degang Fu. The peculiar roles of chloride electrolytes in BDD anode cells. *RSC Advances*, **2016**, 6: 65638-65643
16. **Chunyong Zhang***, Haiyan Cui, Zhenzhu He, Lin Su, Degang Fu. Fractals in carbon nanotubes buckypapers, *RSC Advances*, **2016**, 6: 8639-8643
15. Jingyu Wu, Xiaoming Du, Zhenzhu He, **Chunyong Zhang***, Degang Fu. Statistical investigation on the role of supporting electrolytes during NTA degradation on BDD anodes. *Environmental Science and Pollution Research*, **2016**, 23: 5609-5617
14. Jingyu Wu, Zhenzhu He, Xiaoming Du, **Chunyong Zhang***, Degang Fu. Electrochemical degradation of Acid orange-II dye using mixed metal oxide anode: Role of supporting electrolytes. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 59: 303-310
13. **Chunyong Zhang***, Zhenzhu He, Jingyu Wu, Degang Fu. The peculiar roles of sulfate electrolytes in BDD anode cells, *Journal of The Electrochemical Society*, **2015**, 162(8): E85-E89
12. Zhenzhu He, Wangcheng Ding, Wanyue Xiao, Jingyu Wu, **Chunyong Zhang***, Degang Fu. Doehlert design applied to electrochemical incineration of methyl green using boron-doped diamond electrode, *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 56: 160-166
11. Liping Liu, Biao Li, Zhenzhu He, **Chunyong Zhang***, Degang Fu. Degradation of bromoamine acid by BDD technology - Use of Doehlert design for optimizing the reaction

- conditions, *Separation and Purification Technology*, **2015**, 146: 15-23
10. **Chunyong Zhang***, Zhenzhu He, Jingyu Wu, Degang Fu. Chemometric study on the electrochemical incineration of nitrolotriactic acid on platinum and boron-doped diamond anode, *Chemosphere*, **2015**, 130: 1-7
 9. Wei Li, Biao li, Wangchen Ding, Jingyu Wu, **Chunyong Zhang***, Degang Fu. Response surface methodology as a tool to optimize the electrochemical incineration of bromophenol blue on boron-doped diamond anode, *Diamond & Related Materials*, **2014**, 50: 1-8
 8. **Chunyong Zhang***, Jingyu Wu, Degang Fu. Fractals in several electrode materials, *Applied Surface Science*, **2014**, 313: 750-754
 7. **Chunyong Zhang***, Liping Liu, Wei Li, Jingyu Wu, Fei Rong, Degang Fu. Electrochemical degradation of Acid orange-II dye with boron-doped diamond electrode: Role of operating parameters in the absence and in the presence of NaCl, *Journal of Electroanalytical Chemistry*, **2014**, 726: 77-83
 6. **Chunyong Zhang***, Liping Liu, Jinliang Wang, Fei Rong, Degang Fu. Electrochemical degradation of ethidium bromide using boron-doped diamond electrode. *Separation and Purification Technology*, **2013**, 107: 91-101
 5. **Chunyong Zhang***, Lijiao Yang, Fei Rong, Degang Fu, Zhongze Gu. Boron-doped diamond anodic oxidation of ethidium bromide: Process optimization by response surface methodology. *Electrochimica Acta*, **2012**, 64: 100-109
 4. **Chunyong Zhang**, Jiale Wang, Huifen Zhou, Degang Fu, Zhongze Gu*. Anodic treatment of acrylic fiber manufacturing wastewater with boron-doped diamond electrode: A statistical approach. *Chemical Engineering Journal*, **2010**, 161(1-2): 93-98
 3. **Chunyong Zhang**, Jinliang Wang, Taketoshi Murakami, Akira Fujishima, Degang Fu, Zhongze Gu*. Influence of cations during Orange-II degradation on boron-doped diamond electrode. *Journal of Electroanalytical Chemistry*, **2010**, 638 (1): 91-99
 2. **Chunyong Zhang**, Degang Fu, Zhongze Gu*. Degradation of microcystin-RR using boron-doped diamond electrode. *Journal of Hazardous Materials*, **2009**, 172(2-3): 847-853
 1. **Chunyong Zhang**, Linjuan Gu, Yihua Lin, Yongxiang Wang, Degang Fu, Zhongze Gu*. Degradation of X-3B dye by immobilized TiO₂ photocatalysis coupling anodic oxidation on BDD electrode. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 207(1): 66-72