Title: Highly Efficient Degradation of Thidiazuron with Ag/AgCl- Activated Carbon Composites under LED Light Irradiation

Authors: Yisi Yang, Yan Zhang, Mingguang Dong, Ting Yan, Maosheng Zhang, Qingru Zeng

PII: S0304-3894(17)30255-8
DOI: http://dx.doi.org/doi:10.1016/j.jhazmat.2017.04.013
Reference: HAZMAT 18496

To appear in: *Journal of Hazardous Materials*

Received date: 2-11-2016
Revised date: 3-4-2017
Accepted date: 4-4-2017

Please cite this article as: Yisi Yang, Yan Zhang, Mingguang Dong, Ting Yan, Maosheng Zhang, Qingru Zeng, Highly Efficient Degradation of Thidiazuron with Ag/AgCl-Activated Carbon Composites under LED Light Irradiation, Journal of Hazardous Materialshttp://dx.doi.org/10.1016/j.jhazmat.2017.04.013

Highly Efficient Degradation of Thidiazuron with Ag/AgCl-Activated Carbon Composites under LED Light Irradiation

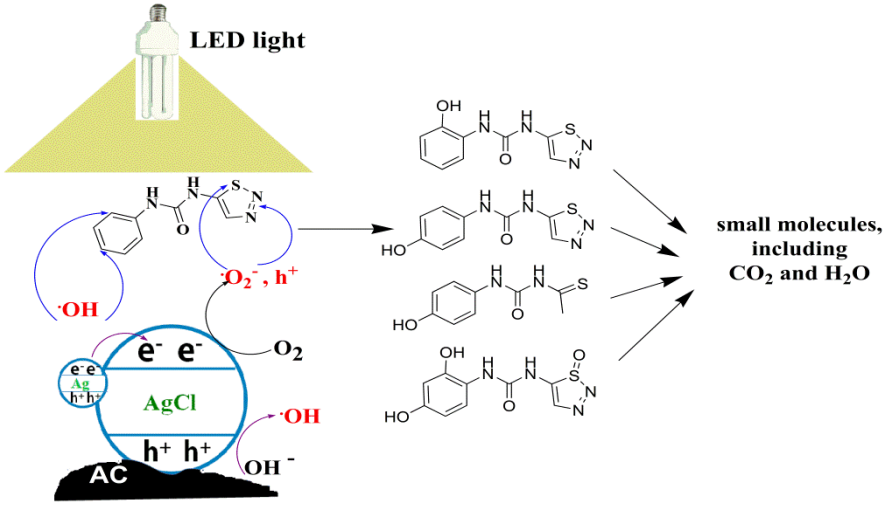
Yisi Yang[1,2,3], Yan Zhang [2,3], Mingguang Dong[3] , Ting Yan[3], Maosheng Zhang[3], Qingru Zeng[*1],

([1]College of Bioscience and Biotechnology, Hunan Agricultural University, Changsha 410128, PR China

[2]Hubei Key Laboratory for Processing and Application of Catalytic Materials, Huanggang Normal University, Huanggang 438000, PR China

[3] College of Chemical Engineering, Huanggang Normal University, Huanggang 438000, PR China)

Graphical Abstract:



Highlights:

- Photocatalytic degradation of thidiazuron was performed in a neutral water matrix
- This was carried out in the presence of Ag/AgCl-activated carbon composites and LED light
- The pH effect and the dominant active species were explored

*Corresponding author. E-mail: 40083763@qq.com.