

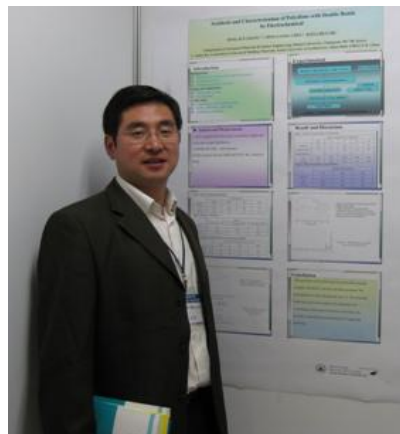
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## Main Publications:

1. J Yang, **F.J. Zhang**, H.Y. Lu, X. Hong, H.L. Jiang, Y.E Wu\*, Y.D Li\*, Hollow Zn/Co ZIF derived from core-shell ZIF-67@ZIF-8 for selective catalyst in semi-hydrogenation of acetylene, *Angew. Chem. Int. Edit.*, **2015**. Accept.
2. J Yang, **F.J. Zhang\***, F.Z. Xie, et al. Formation and catalytic performance of novel colourful BiOI photocatalysts with adjustable bandgap under visible light, *Micro Nano Lett.*, 9(10):702-706, 2014.
3. J.K. Dong, H.Y. Xu \*, **F.J. Zhang**, C Chen, L Liu, G.T. Wu, Synergistic effect over photocatalytic active Cu<sub>2</sub>O thin films and their morphological and orientational transformation under visible light irradiation, *Appl. Catal. A: Gen.*, 470:294-302, 2014.
4. **F.J. Zhang\***, W. Zhao, K. Zhang, Enhanced photocatalytic activity by the tunnel effect of microstructured InVO<sub>4</sub>/WO<sub>3</sub> heterojunctions, *Reac. Kinet. Mech. Cat.*, 108: 253-261, **2013**.
5. **F.J. Zhang\***, F.Z. Xie, J. Liu, W. Zhao, K. Zhang, Rapid sonochemical synthesis of irregular nanolaminar-like Bi<sub>2</sub>WO<sub>6</sub> as efficient visible-light-active photocatalysts, *Ultrason. Sonochem.*, 20:209-215, **2013**.
3. **F.J. Zhang\***, K.H. Zhang, F.Z.Xie, J. Liu, H.F. Dong, Surface plasmon resonance induced reduction of high quality Ag/graphene composite at water/toluene phase for reduction of H<sub>2</sub>O<sub>2</sub>, *Appl. Surf. Sci.*, 265:578-584, **2013**.
4. **F.J.Zhang\***, J. Liu, K. Zhang, W. Zhao, W.K. Jang, and W.C. Oh, A novel and simple approach for the synthesis of Fe<sub>3</sub>O<sub>4</sub>-graphene composite, *Korean J. Chem. Eng.*, 29(8), 989-993, **2012**.
5. **F.J. Zhang\***, W.C. Oh, K. Zhang, New insight for enhancing photocatalytic activity of MWCNT/TiO<sub>2</sub> by decorating palladium nanoparticles as charge-transfer channel, *Mater. Res. Bull.*, 47: 619-624, **2012**.
6. **F.J.Zhang**, M.L. Chen, W.C. Oh\*. Photoelectrocatalytic properties of Ag-CNT/TiO<sub>2</sub> composite electrodes for methylene blue degradation. *Carbon*, 49(3): 1053-1053, **2011**.

7. **F.J. Zhang**, W.C. Oh\*, Photoelectrolysis efficiency of methylene blue using platinum-carbon nanotube/titania catalysts under visible light. *Fresen. Environ. Bull.*, 2:452-460, **2011**.
8. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, Photoelectrocatalytic properties and bactericidal activities of silver-treated carbon nanotube/titania composites, *Compos. Sci. Technol.*, 71: 658-665, **2011**.
9. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, Photoelectrocatalytic degradation of methylene blue over M-CNT/TiO<sub>2</sub> (M=Y, Ag, and Pt) composite electrodes. *Fuller. Nanotub. Car. N.*, 19: 6, 564-574, **2011**.
10. W.C. Oh\*, W.B.Ko, **F.J. Zhang**, The Functionalization and preparation methods of carbon nanotube-polymer composites: A review, *Elastomers Compos.*, 45(2)80-86, **2010**.
11. M.L. Chen, **F.J. Zhang**, K. Zhang, Z.D. Meng and W.C. Oh\*, Fabrication of M-CNT/TiO<sub>2</sub> (M=Cr, Mn and Fe) composites and the effect of transition metals on their photocatalytic activities, *J.Chem.Res.*, 5, 283-287, **2010**.
12. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, The effect of introduced method of titania and applied potential on the photoelectrocatalytic properties of CNT/TiO<sub>2</sub> electrodes. *J. K. Cry. Growth Cry. Technol.*, 20(1), 35-42, **2010**.
13. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, Visible light photoelectrocatalytic properties of novel yttrium treated carbon nanotube/titania composite electrodes, *Bull. K. Chem. Soc.*, 31(1)133-139, **2010**.
14. F.J. Zhang, M.L. Chen, W.C. Oh\*, Photoelectrocatalytic properties of Ag-CNT/TiO<sub>2</sub> composite electrodes for methylene blue degradation, *New Carbon Mater.*, 25(5), 348-356, **2010**.
15. W.C. Oh\*, **F.J. Zhang**, M.L. Chen, Synthesis and characterization of V-C<sub>60</sub>/TiO<sub>2</sub> photocatalyst designed for degradation of methylene blue, *J. Ind. Eng. Chem.*, 16, 299-304, **2010**.
16. **F.J. Zhang**, J. Liu, M.L. Chen, W.C. Oh\*, Photoelectrocatalytic degradation of Dyes in aqueous solution using CNT/TiO<sub>2</sub> electrode, *J. K. Ceram.Soc.*, 46(3), 263-270, **2009**.
17. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, Characterization of CNT/TiO<sub>2</sub> electrode prepared through impregnation with TNB and their photoelectrocatalytic properties. *Environ. Eng. Res.*, 14(1), 32-40, **2009**.
18. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, Fabrication of CNT / TiO<sub>2</sub> electrodes and their photoelectrocatalytic properties for methylene blue degradation, *J.Ceram. Process. Res.*, 10(5), 600-605, **2009**.
19. **F.J. Zhang**, M.L. Chen, W.C. Oh\*, The effect of monomers and additives on the reaction rate of polysilanes preparation by electroreduction, *Anal. Sci. Technol.*, 21(5),432-437, **2008**.
20. **F.J. Zhang\***, M.L. Chen, W.C. Oh\*, Synthesis and characterization of polysilane with double bonds by an electrochemical Method, *J. Ceram. Process. Res.*, 9(6), 580-583, **2008**.

### Oral Presentations:

- **F.J. Zhang**, “How to reduce the aggregation of graphene sheets,” Invited Talk, the 3rd China-Korea International Conference on Multi-functional Materials and Application, 20 Dec, 2009, Hefei, China.
- **F.J. Zhang**, “Preparation and photocatalytic decomposition of methylene blue over metal ion treated CNT/TiO<sub>2</sub> composites”, Invited Talk, the 2nd International Conference on Nanomechanics & Nanocomposites, ICNN-2, October 10-13, 2010, Beijing, China.
- **F.J. Zhang**, A novel photofunctional g-C<sub>3</sub>N<sub>4</sub>/Ag<sub>3</sub>PO<sub>4</sub> bulk heterojunction for decolorization of Rh.B, the 7th International Conference on Multi-functional Materials and Application, 24 Dec, 2013, Huainan, China.
- **F.J. Zhang**, New High Performance Visible Light Driven Photocatalysts , 26 Dec, 2014, Kyungpook National University, Korea.

### Poster Presentations:

- **F.J. Zhang**, H.Y. Xu, S. F. Mei, H. F. Dong, Z. D. Meng, W.C. Oh, ion exchange synthesis of water dispersible WO<sub>3</sub> for sonocatalyst application, the 6<sup>th</sup> International Conference on Multi-functional Materials and Application, Nov, 2012, Daejeon, Korea.
- **F.J. Zhang**, W.C. Oh, synthesis and characterization of magnetic graphene based nanosheets for methylene blue removal, Carbon, China, July 2011.
- **F.J. Zhang**, M.L. Chen, W.C. Oh, Photoelectrocatalytic Degradation Of Methlene Blue Using Pt-CNT/TiO<sub>2</sub> Composites Under Visible Light, Carbon, USA, July 2010.
- **F.J. Zhang**, M.L. Chen, W.C. Oh, Photonic effects of Mn-CNT/TiO<sub>2</sub> composites modified by different oxidants, the 3rd ICET, May, 2010.
- **F.J. Zhang**, W.C. Oh, Photocatalytic Properties of Molybdenum-Carbon Nanotube / Titania Composites under Visible Light, CCATM'2010, Sept. 12th 2010.
- **F.J. Zhang**, M.L. Chen, K. Zhang, Z.D. Meng, W.C. Oh, Preparation, Photoelectrocatalytic Property and Bactericidal Activity of Ag-CNT/TiO<sub>2</sub> composites, the 7th China-Japan- Korea joint symposium on carbon materials to save the earth. August, 2009.
- **F.J. Zhang**, M.L. Chen, W.C. Oh, Synthesis and characterization of polysilane with double bonds by electrochemical, the 37th KSIEC meeting, May, 2008.

### Book:

1. W.C. Oh, **F.J. Zhang**, M.L. Chen, 《Handbook of Photocatalysts: Preparation, Structure and Applications》 (Nova Science Publishers, 2009) , pp.153-190. Chapter 4: Carbon Based Titania photocatalysts: Preparations, Properties and Applications.