

## Wu Xiangyu

Status: Project Officer (completed)

Contact:

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### Education:

- M. Eng., Thermal Engineering, Univ. of Sci. & Tech. Beijing, Beijing, China, Apr.2005
- B. Eng., Thermal Engineering, Univ. of Sci. & Tech. Beijing, Beijing, China, Jul.1999

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### Working & Research Experiences

- School of Civil & Environmental Engineering, Nanyang Technological University, Singapore, Project Officer, Jul.2011 to Present
  - Jul.2011 to Present, Participated in the project of “Reducing urban heat within JTC estates by installing subsurface water cooling systems”, funded by JTC Innovation Fund.
- Fives Stein (Shanghai), China. Design Engineer, Jul. Aug.2007-May. 2011
  - Feb.2011- May.2011, I was in charge of designing and coordinating the project of No.3 line for Shougang vertical Continuous Annealing Line (CAL-Tinplate), Hebei Province, China. (Job moves to a colleague)
  - Nov. 2009- May.2011, I was in charge of designing and coordinating of one decarburizing line project for Silicon Steel in Baosteel in Shanghai, China.
  - Jun. 2009-Oct. 2009, I was in charge of designing in Xinyu continuous annealing line project in Jiangxi Province, China.
  - Feb. 2009-May 2009, I was in charge of designing and coordinating the project of No.4 line for Shougang vertical Continuous Galvanizing Line (CGL), Hebei Province, China.
  - Feb. 2008-May 2009, I was one of the main designers in the project of the three horizontal CGL furnace, Prosperity Tieh Enterprise Co. (Taiwan)/ BSI Cilegon (Indonesia) / Tata-Bluescope Steel Co. (India)
- Dept. of Metallurgical Equipment, Capital Engineering & Research Incorporation Limited (state-owned), Beijing, China. Design Manager, Jul. 2005-May. 2007
  - Oct. 2006-Apr. 2007, I was the core designer in the project of Continuous Annealing Line (CAL) for Guanzhou Steel Company, Shandong, China.
  - Jan. 2006-Sep. 2006, I was one of main designers in the project of Nanjiguang CGL for Shanghai Nanjiguang Iron and Steel Co., Ltd. Shanghai, China.
  - Aug. 2005-Jan. 2006, I participated in many projects, including of Kaijin CGL in Fujian, YuXin CGL in Fujian, Baosteel Oil-pipes Baking Furnace in Shanghai, China.
- Wuhan Iron and Steel (Group) Corporation, Hubei Province, China. Thermal engineer, Jul. 1999-Aug. 2002

- Jul.1999-Aug.2002, I took charge of the operating in Bell furnace zone. I was responsible of the annealing process, all related thermal equipments, all maintenance, and personnel management of this zone.

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### Research Interests

- Industrial research & design annealing, galvanizing, tin-plate and other heat-treatments in strip process line, including of cold/hot roll strip, electrical silicon strip, stainless steel strip.
- Clean energy research, including of Ground Source Heat Pumps system, solar power, tidal power, wind power and etc.
- Environmental Impact Assessment & system analysis
- Urban waste water treatment

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### Honors & Awards

- 2005 National Excellent Master Degree Thesis, Univ. of Sci. & Tech. Beijing, China

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### Publications

- Xia DH, Yu T, Wu XY. Scattering mechanism of heat radiation wave in medium, Journal of University of Science and Technology Beijing 2 (2006). (in Chinese).
- Xia DH, Zhang SX, Wu XY. Fractal model of particle size distribution for coal fragmentation, Mining and Metallurgy 1 (2005). (in Chinese).
- Xia DH, Wu XY. Energy saving mechanism of heat radiation intensifier in room-shaped furnaces. Energy for Metallurgical Industry 2 (2005). (in Chinese).
- Wu XY, Xia DH. Application and energy-saving Mechanism of Heat Radiation Intensifier to Reactor Tank. Industrial Heating 3 (2005). (in Chinese).
- Xia DH, Wang LB, Wu XY. Energy-saving technology of applying heat radiation intensifier in hot dip zincification furnace, Industrial Furnace 4 (2005). (in Chinese).
- Xia DH, Wu XY. Mechanism of field synergy for selective absorption enhancement of heat radiation wave. Journal of Thermal Science and Technology 3 (2004). (in Chinese).