



Curriculum Vitae

Shanghai University (1983-)

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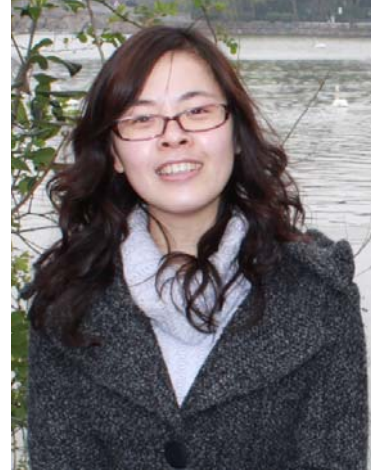
Hua Wang

PERSONAL INFORMATION

Born: April, 1983 in Shandong, P.R. China;
 Marital Status: Single

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EDUCATION

1. 09/2008-present Ph.D. in College of materials science and engineering, Shanghai University. SUPERVISOR: Prof. Lin Li .THESIS: Mn and P Solute Distributions and Their Effect on Properties of ULC-BH Steels with Different Annealing Processes
2. 09/2005-07/2008 M.E. in College of materials science and engineering, Shandong University. SUPERVISOR: Prof. Zuo Cheng Wang. THESIS: FEM Simulation on the Two-pass Continuous Cold Rolling of Oval Profile 304 Stainless Steel Wire
3. 09/2001-07/2005 B.S. in College of materials science and engineering, Taiyuan University of Technology. Specialty: Materials Physics

AWARDS AND HONORS

- 06/2002 Taiyuan University of Technology Second Prize Scholarship
- 06/2002 Taiyuan University of Technology Learning Theory Scholarship
- 12/2002 Taiyuan University of Technology Third Prize Scholarship
- 06/2003 Taiyuan University of Technology Second Prize Scholarship
- 06/2003 Taiyuan University of Technology Learning Theory Scholarship
- 12/2003 Taiyuan University of Technology Second Prize Scholarship
- 06/2004 Taiyuan University of Technology Second Prize Scholarship
- 12/2004 Taiyuan University of Technology Third Prize Scholarship
- 09/2007 Shandong University Social Practice Scholarship
- 12/2009 Shanghai University Scholarship for Ph.D Workshop China 2009
- 11/2010 Shanghai University Special Scholarship of Guanghua
- 2010 VAITEC research project Scholarship



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RESEARCH EXPERIENCE

09/2005-07/2008

Master Research in Shandong Univ.

Participated in a project funded by Dashan Metal Rolling Co. Ltd in Shandong, China. Used software of ANSYS/LS-DYNA to analyze the stress distribution in wire stainless steel sample during cold rolling. Analyzed the micro fracture and formation property with experiments. Obtained the influence of different rolling process on the steel structure and steel formation property, and proposed the adaptive cold rolling process which can avoid the micro fracture of steel. The project has been put on production.

Technical abilities I obtained during this stage are: be skilled in using software of Auto/CAD, Pro/E, ANSYS and familiar with microanalysis experiments.

09/2008-present

Ph.D Research in Shanghai Univ.

Project 1:

Participated in a project funded by a large steel company in China. During the project research, my job are participated in designing the new kind of high property bake hardening (BH) steel including chemical composition, heat treatment process etc. Be responsible totally for the detection and microanalysis of microstructure, texture, second phase particles and three dimensional solute distributions of atoms. Also together with other colleges to be responsible for the mechanical properties test. With the microanalysis and mechanical properties results and Thermo-Calc calculation results to re-design the chemical compositions of the BH steel. We have obtained a BH steel which conformance to requirements of the company now. The project has been pilot production now.

Technical abilities I obtained during this stage are: be familiar with SEM, TEM, EBSD, 3DAP, microanalysis and tensile tests etc. Be familiar with heat treatment process and phase transition in steel matrix and the corresponding thermodynamics theory.

Project 2:

As a Ph.d student be fortunately financed by VANITEC to do a project on Vanadium. During this project research, analyzed the Vanadium state variation in BH steel with different heat treatment process. Use SEM, TEM to detect the variation of vanadium carbides and nitrides as well as use 3DAP to analyze solute distributions in the steel matrix. Also explain the



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precipitates and solutes strengthening on steel, and their effect on matrix texture. The project has been completed in 12, 2010.

Project 3:

Participated in a project funded by National Basic Research Program of China (973). Cooperated with other colleges to investigate the microstructure of a new kind of automotive steel. The project is underway now.

PRESENTATIONS

1. Ph.D Workshop China. December, 2009. Beijing.
2. Shanghai University Academic Forum. May, 2010. Shanghai University.
3. International Conference on Thermal Process Modelling and Computer Simulation. May, 2010. Shanghai SheShan.
4. The Minerals, Metals & Materials Society Annual Meeting & Exhibition. February, 2011. California, USA.
5. High Stress Low Alloyed International Conference. May, 2011. Beijing.
6. Prize-awarding ceremony by the Vanadium International Technical Committee. May, 2011. Beijing.

PUBLICATIONS

1. **Hua Wang**, Naqiong Zhu, Wen Shi, Lin Li, Rendong Liu. Effect of Mn and P on Precipitation Behavior and Solute Distribution in Ultra-Low Carbon Bake Hardening Steels. *Journal of Materials Science*. (2011) 46: 2982-2990.
2. **Wang Hua**, Shi Wen, HE Yanlin, Fu Renyu, Li Lin. Study of Mn and P Solute Distributions and Their Effect on the Tensile Behavior in Ultra Low Carbon Bake Hardening Steels. *Acta Metallurgica Sinica in Chinese*. (The only SCI magazine in steel research area in Chinese) (2011) 47: 263-268.
3. **Hua Wang**, Wen Shi, Lin Li. Variation of Solute Distributions during Bake Hardening Process and Their Effect on Bake Hardening Phenomenon in Ultra-low Carbon Bake Hardening Steels. *Journal of Materials Science*. (Online DOI: 10.1007/s 10853-011-5545-1)
4. **Hua Wang**, Wen Shi, Yan-lin He, Xiao-gang Lu, Lin Li. Effect of Overaging on Solute Distributions and Bake Hardening Phenomenon in Bake Hardening Steels. *Journal of iron and steel research international*. (Accepted)
5. **Hua Wang**, Wen Shi, Lin Li. Internal Friction and Three Dimensional Atom Probe Analysis of Bake Hardening Phenomenon in Ultra-Low Carbon Bake Hardening Steel. *The Minerals, Metals & Materials Society (TMS)*. 2011. 02. 27.



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6. **Hua Wang**, Shi Wen, Liu Pengpeng, Lin Li. FEM Study of the Tensile Behavior of Annealed ULC-BH Steels. *4th International Conference on Thermal Process Modeling and Computer Simulation*. 2010.05.
7. **Hua Wang**, Wen Shi, Lin Li. Study of Microstructure Development during Annealing Process in BH Steels with EBSD. (being written now).
8. **Wang Hua**, Shi Wen, Li Lin. Research Progress of Ultra Low Carbon Bake Hardening Steels. *Heat Treatment*. (The following papers are in Chinese) 2010. 25: 12-17.
9. **Wang Hua**, Shi Wen, Liu Pengpeng, Li Lin. Application of FEM to Study the Effect of Annealing Temperature on Mechanical Properties of Ultra Low Carbon Bake Hardening Steels. *Shanghai Metals*. 2010. (Accepted)
10. Zhang Ji Xiang, **Wang Hua**, Liu Ying Chun, Wen Hui. A New Recrystallization Nucleation Model Used for Monte Carlo Simulation. *Shandong Metallurgy*. 2009. 31: 41-44.
11. Zhang Ji Xiang, **Wang Hua**, Wen Hui. FEM Simulation on the Two Pass Continuous Cold Rolling of Oval Profile 304 Stainless Steel Wire. *Journal of Netshape Forming Engineering*. 2010. 1: 15-18.
12. Liu Pengpeng, Shi Wen, **Wang Hua**, Li Lin, Yan Qi. Influence of Continuous Annealing Temperature and Coiling on Properties of Bake-Hardening Steel Containing Vanadium. *Shanghai Metals*. 2010. 32: 16-20.
13. Liu Pengpeng, Shi Wen, **Wang Hua**, Li Lin, Yan Qi. Influence of Continuous Annealing on Mechanical Properties of Bake-Hardening Steel Containing Vanadium. *Shanghai Metals*. 2010. (Accepted)
14. Wu Xue Liang, Shi Wen, Chen Chao, **Wang Hua**, Li Lin. Influence of Annealing Temperature and Time on Recrystallization Texture of Extra-Low Carbon BH Steel. *Iron and Steel*. 2010. 45: 74-77.
15. Chen Chao, Shi Wen, Wu Xue Liang, **Wang Hua**, Gao Yong Jun, Li Lin. Effect of Vanadium on the Annealing Recrystallization Kinetics and Microstructure of Ultra Low Carbon BH Steel. *Shanghai Metals*. 2010. 32: 43-46.
16. Gao Yongjun, Shi Wen, Chen Chao, **Wang Hua**, Liu Pengpeng, Li Lin. Bake-Hardening Properties and Internal Friction of Trip Steel. *Shanghai Metals*. 2010. 32: 50-52.