

Wei Mu

Home Address

315 N. Campus Ave, Apt #6.
Oxford, OH 45056

E-Mail Address: muw@muohio.edu

Cell phone: 513-461-3812

VISA STATUS: F-1

EDUCATION

University	Degree	Major	From ~ to
Miami University, Ohio, USA	Master	Paper Science and Chemical Engineering	08/2007 – 08/2009
Shanghai JiaoTong University, China	Bachelor	Applied Chemistry	09/2000 – 07/2004

Working Experience

- Argonne National Lab, Argonne, IL** 08/2008
- Extended X-ray Absorption of Fine Structure (EXAFS) study of nitrogen doped p-type ZnO
- Hercules Paper Technologies and Ventures – Application Specialist – Functional Chemical** 06/2007-08/2007
- Responsible for functional chemical application (Including surface/internal sizing, retention/drainage aids, dry strength, fixactive) in Greater China region.
 - Provide the sales with the latest technique and product. Help them to enlarge the market share.
- Hercules Paper Technologies and Ventures - Technical Marketing Specialist – Greater China** 11/2006~05/2007
- Responsible for Global Consumption Report Update
 - Assist salesman in developing the concept of value sale, and ROI calculation
 - Coordinate the training and case history in all product line from abroad
- Hercules Paper Technologies and Ventures – Application Specialist – Functional Chemical** 05/2006 - 11/2006
- Responsible for RDC & Dry Strength Application in China region.
 - Assist salesman in developing RDC & Dry Strength market, provide technical support
- Hercules Paper Division – Senior Sales Representative** 01/2006 - 04/2006
- Take charge part of the business in Central China Region
 - Coordinate between salesman and technical group to deliver the sales revenues and gross profits
- Hercules Paper Division – RDC Application Engineer** 07/2004 - 12/2005
- Take the responsibility of RDC Application in China region.
 - Provide the sales with the latest techniques and products, enlarge the market share.

Publication and manuscript

Publication: Extended X-ray absorption fine structure study of p-type nitrogen doped ZnO, W. Mu, L. Kerr, Chemical Physics Letter, (In Press)

Manuscript: Investigation of N single atom and diatom effect on the conductivity of Nitrogen-Doped P-Type ZnO Thin Films Grown By Physical Vapor Deposition
Properties of nitrogen doped p-type ZnO thin film by annealing

Mastered Skills

Equipment: Sizing, Dry Strength, Retention/Drainage test (Britt Jar, Dynamic Drainage Analyzer), functional chemical evaluation, particle charge density (PCD) Test, Dynamic Hand-sheet Former, and other basic paper property test.
Sputtering, Chemical bath deposition, physical vapor deposition
Scanning Electron Microscopy, Atomic Force Microscopy, UV-Vis, FTIR, Raman, NMR, GC, LC

Software: MatLab, Simulink (for process control), Microsoft Office

BACKGROUND SUMMARY

- Understanding paper-making process, paper machine.
- Familiar with polymer property, theory and application in industry.
- Trained in the mechanism of the interaction between fibers and flocculants/coagulants.
- Experienced in nano-material fabrication (e.g. ZnO) characterization and application as semiconductor.

Training

- 08/2004 New Hired Training
- 04/2005 JSA/JSO Training
- 12/2005 DSR Training in Taiwan
- 08/2006 RDC Training in USA headquarter
- 11/2006 Business Acumen Training

REFERENCE

Dr. Kerr, Lei	Advisor in Miami University	kerrl@muohio.edu	513-529-0768
Shiow-Meei, Lai	Supervisor in Hercules	slai@herc.com	267-265-8254
Dr. Steven Keller	Co-advisor in Miami University	kellerds@muohio.edu	513-529-0765
Dr. Shashi Lalvani	Chairman in Chemical Engineering Dept	lalvansb@muohio.edu	513-529-0763