

YANAN WANG

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Raleigh, NC 27606

Research Experience

The Nonwoven Institute/NC State University

Raleigh, NC

Research assistant

Aug. 2018- present

- Investigate the process-structure-property relationship of a typical Meltblown (MB) elastomeric nonwoven system
- Engineer chemical composition and physical structure of MB elastomeric nonwoven for energy-generating and strain-sensing capabilities

Beijing University of Chemical Technology

Beijing, China

Research assistant

Sept. 2014-June 2017

- Study on the effect of process parameters on the structure and strain sensitivity of polyimide nanocomposite aerogels

Institute of High Energy Physics

Beijing, China

Research assistant

Sept. 2015-Dec. 2015

- Investigate the effect of process parameters on the properties of Polyimide (PI) filter film on silicon wafers in super-clean room

Professional experience

Beijing Institute of Metrology

Beijing, China

Intern in Department of Science, Technology and Government Affairs

June 2018 - Aug. 2018

- Manage the project reporting system for various project and patent applications, achievements in scientific research and the scientific achievement transformation

Education

Ph.D., Fiber and Polymer Science | North Carolina State University

Expected 2021

M.S., Materials Science and Engineering | Beijing University of Chemical Technology

July 2018

B.S., Biological Functional Materials | Beijing University of Chemical Technology

July 2014

Skills and Interests

Computer: Microsoft office, Origin, 3Ds max, Fusion 360, MATLAB, Python

Technical: TGA, DSC, SEM, UTM, FTIR, UV-Vis, LinMot, Data acquisition platforms (Arduino, Raspberry Pi)

Language: English (proficient), Chinese (native), French (beginner)

Interests: working out, pop music, cooking

Publications

- Wang, Y.; Ge, Q.; Chen, X.; Qi, S.; Tian, G.; Wu, D. Ultralight and Flexible MWNTs/Polyimide Hybrid Aerogels for Elastic Conductors. *Macromol. Mater. Eng.* 2017, 302, No. 1700082
- Qu, J.; He, N.; Patil, SV.; Wang, Y, Banerjee, D.; Gao, W. Screen Printing of Graphene Oxide Patterns onto Viscose Nonwovens with Tunable Penetration Depth and Electrical Conductivity. *ACS Appl. Mater. Interfaces* 11 (16), 14944-14951
- Dong, G.; Liu, B.; Kong, L.; Wang, Y; Tian, G.; Qi, S.; Wu, D. A neoteric polyimide nanofiber encapsulated by the TiO₂ armor as the tough, highly wettable and flame-retardant separator for advanced LIB. *ACS Sustainable Chem. Eng.* 2019XXXXXXXXXX-XXX