

Jiixin Ye

Curriculum Vitae

Mechanical Engineering
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1. Education:

Doctor of Philosophy, Mechanical Engineering, 2014, University of Delaware, US

Master of Science, Biomedical Engineering, 2010, Washington University in St. Louis, US

Bachelor of Science, Mechanical Engineering, 2008, Tsinghua University, China

2. Research Interests: tribology of polymeric solid lubricants, cartilage tribology, fundamentals of low friction tribofilms, wind turbine drivetrain reliability

3. Publications:

In preparation or submitted:

1. **A Quantitative Study of Transfer Film Quality for Polymeric Solid Lubricants**, [J. Ye](#), D. L. Burris, *in preparation*
2. **Characterization of Transfer Film Adhesion and Cohesion Strength for Polymeric Solid Lubricants**, [J. Ye](#), D. L. Burris, *in preparation*
3. **The Effects of High Temperature on the Wear and Transfer of Alumina-PTFE Nanocomposites**, H. S. Khare, [J. Ye](#), D. L. Burris, *in preparation*
4. **A New Method of Quantifying Transfer Film Quality for Polymeric Solid Lubricants**, [J. Ye](#), H.S. Khare, D. L. Burris, *Wear, submitted*

Published before 2014:

5. **Transfer Film Evolution and Its Role in Promoting Ultra-Low Wear of a PTFE Nanocomposite**, [J. Ye](#), H.S. Khare, D.L. Burris, *Wear 297 (2013) 1095-1102*
6. **Age-Related Changes in Bone Structure and Strength in Female and Male BALB/c Mice**, M. D. Willingham, M. D. Brodt, K. L. Lee, A. L. Stephens, [J. Ye](#), M. J. Silva, *Calcified tissue international 86.6 (2010): 470-483.*

4. Conference Presentations:

7. **A Quantitative Metric of Transfer Film Assessment**, [J. Ye](#), H. S. Khare, D. L. Burris, *STLE Annual Meeting*, Lake Buena Vista, FL, 2014
8. **The Effects of High Temperature on the Wear and Transfer of Alumina-PTFE Nanocomposites**, H. S. Khare, [J. Ye](#), D. L. Burris, Lake Buena Vista, FL, 2014
9. **Tribological PTFE nanocomposites: investigating role of transfer films in wear reduction**, [J. Ye](#), D. L. Burris, *STLE Annual Meeting*, Detroit, MI, 2013

10. **Tribological PTFE nanocomposites: relating transfer and wear**, J. Ye, H. S. Khare, D. L. Burris, *ASME/STLE Joint International Conference in Tribology*, Denver, CO, 2012

5. Poster Presentations:

1. **A New Method of Transfer Film Quality Assessment**, J. Ye, H. S. Khare, D. L. Burris, *STLE Annual Meeting*, Lake Buena Vista, FL, 2014
2. **Tribological PTFE nanocomposites: investigating role of transfer films in wear reduction**, J. Ye, D. L. Burris, *STLE Annual Meeting*, Detroit, MI, 2013
3. **Tribological PTFE nanocomposites: morphological evolution of transfer film during sliding**, J. Ye, D. L. Burris, *ASME/STLE Joint International Conference in Tribology*, Denver, CO, 2012
4. **Tribological PTFE nanocomposites: relating transfer and wear**, J. Ye, H. S. Khare, D. L. Burris, *Gordon Research Conferences on Tribology*, Waterville, ME, 2012
5. **In situ study of PTFE nanocomposites: relating transfer and wear**, J. Ye, H. S. Khare, D. L. Burris, *STLE Annual Meeting*, St. Louis, MO, 2012
6. **PTFE nanocomposites: relating transfer and wear**, J. Ye, A. J. Szela, J. Zheng, D. L. Burris, *STLE Annual Meeting*, Atlanta, GA, 2011

6. Professional Membership:

STLE - Society of Tribologists and Lubrication Engineers (2010 – present)

7. Colloquia and Workshops

Applications of 3D Optical Microscopy in Tribology Research, H.S. Khare, J. Ye, F. Feng, D.L. Burris, Bruker Nano Surface Metrology Workshop, *UD Center for Composite Materials*, Newark, DE, 2012