References

1. Mishnaevsky L, Brøndsted P, Nijssen R, et al. Materials of large wind turbine blades: recent results in testing and modeling[J]. *Wind Energy* 2012; 15(1): 83-97.

2. Lee Y, Jhan Y, Chung C. Fluid–structure interaction of FRP wind turbine blades under aerodynamic effect[J]. *Composites Part B: Engineering* 2012; 43(5): 2180-2191.

3. Wu Z Y, Tie L. The Application of Multi-Axial Warp Knitted Fabrics in Wind Turbine Blade[J]. *Advanced Materials Research*. 2011; 95-297: 46-50.

4. Xu L, Jin C Z, Ha S K. Ultimate strength prediction of braided textile composites using a multi-scale approach[J]. *Journal of Composite Materials*, 2014,49(4):477-494.

5. Loendersloot R, Lomov S V, Akkerman R, et al. Carbon composites based on multiaxial multiply stitched preforms. Part V: geometry of sheared biaxial fabrics[J]. *Composites Part A: Applied Science and Manufacturing* 2006, 37(1): 103-113.

6. Lomov S V, Belov E B, Bischoff T, et al. Carbon composites based on multiaxial multiply stitched preforms. Part 1. Geometry of the preform[J]. *Composites Part A: Applied Science and Manufacturing* 2002; 33(9): 1171-1183.

7. Vallons K, Lomov S V, Verpoest I. Fatigue and post-fatigue behaviour of carbon/epoxy non-crimp fabric composites[J]. *Composites Part A: Applied Science and Manufacturing* 2009; 40(3): 251-259.

8. Wiśniewski J. Design of Lightweight Composite Disks Reinforced with Continuous Fibres[J]. *FIBRES & TEXTILES in Eastern Europe* 2016; 24, 4(118):74-79. DOI: 10.5604/12303666.1201134

9. Gao X, Tao N, Chen S, et al. Tensile-tensile Fatigue Behavior of Multi-axial Warp-knitted Reinforced Composite[J]. *FIBRES & TEXTILES in Eastern Europe* 2018; 26, 1(127): 73-80. DOI: 10.5604/01.3001.0010.7800

10. Wang H W, Zhou H W, Mishnaevsky L, et al. Single fibre and multifibre unit cell analysis of strength and cracking of unidirectional composites[J]. *Computational Materials Science* 2009; 46(4): 810-820.

11. Ramesh M, Nijanthan S. Mechanical property analysis of kenaf–glass fibre reinforced polymer composites using finite element analysis[J]. *Bull. Mater. Sci.* 2016; 39(1): 147-157.

12. Yang X, Gao X, Ma Y. Numerical Simulation of Tensile Behavior of 3D Orthogonal Woven Composites[J]. *Fibers and Polymers* 2018; 19(3): 641-647.

13. Xu H, Jiang J, Cheng N, et al. Finite Element Modeling for the Uni-Axial Tensile Behaviour of Metallic Warp-Knitted Fabric[J]. *FIBRES & TEXTILES in Eastern Europe*, 2018, 26, 2(128): 49-54. DOI: 10.5604/01.3001.0011.5738

14. Wan Y, Sun B, Gu B. Multi-scale structure finite element analyses of damage behaviors of multi-axial warp-knitted composite materials subjected to quasi-static and high strain rate compressions[J]. *The Journal of The Textile Institute* 2015; 107(7): 879-904.

15. Jiang H, Ren Y, Zhang S, et al. Multi-scale finite element analysis for tension and ballistic penetration damage characterizations of 2D triaxially braided composite[J]. *Journal of Materials Science* 2018; 53(14): 10071-10094.

16. Glaessgen E H, Pastore C M, Griffin O H, et al. Geometrical and finite element modelling of textile composites[J]. *Composites Part B: Engineering* 1996; 27(1): 43-50.

17. Zhang C, Curiel-Sosa J L, Bui T Q. Meso-Scale Finite Element Analysis of Mechanical Behavior of 3D Braided Composites Subjected to Biaxial Tension Loadings[J]. *Applied Composite Materials* 2018:1-19.

18. MUHEIM D, GRIFFIN O H. Verification of a 2-D to 3-D Global/Local Finite Element MEthod for Symmetric Laminates[J]. *Journal of Reinforced Plastics and Composites* 1992; 11(8): 910-931.

19. WHITCOMB J D. ITERATIVE GLOBAL/LOCAL FINITE ELEMENT ANALYSIS[J]. *Computers & Strucrures* 1991; 40(4): 1027-1031.

20. Gao X, Wang L. Finite Element Modelling for Tensile Behaviour of Thermally Bonded Nonwoven Fabric[J]. *Autex Research Journal* 2015; 15(1): 48-53.

21. Li C, Wang J, Xue Z, et al. Research on Large Wind Turbine Blades Modeling Based on ANSYS[J]. *Fiber Reinforced Plastics/Composites* 2009; (02):52-55.