















## ACKNOWLEDGMENTS

The authors gratefully acknowledge the financial support of the project from the Colleges and Universities Key Scientific Research Projects of Henan Province (Grant No. 17B580003) and Horizontal Research Project of Xuchang University (Grant No. 2017HX029 and 2019HX005).

## REFERENCES

- [1] Ji XL, Yang M, Zhou B, Fan LP. (2018). Influence factors analysis of the discrete element numerical simulation of the splitting test for asphalt mixtures at low temperature. *Low Temperature Architecture Technology* 9(40): 18-23. <http://doi.org/10.13905/j.cnki.dwjz.2018.09.005>
- [2] Peng Y, Sun LJ, Shi YJ. (2007). Factors affecting splitting strength of asphalt mixture. *Journal of Jilin University (Engineering and Technology Edition)* 11(6): 1304-1307. <http://doi.org/10.3969/j.issn.1006-8872.2008.06.064>
- [3] Peng Y, Gao H, Wan L, Liu YG. (2018). Numerical simulation of influence factors of splitting strength of asphalt mixtures. *Journal of Jilin University (Engineering and Technology Edition)* <https://doi.org/10.13229/j.cnki.jdxbgxb20180356>
- [4] Wu JR, Qi DJ. (2017). Influence of polyester fiber contents and reeze-thaw cycles on water stability of asphalt mixture. *Bulletin of the Chinese Ceramic Society* 4(36): 1412-1416. <http://doi.org/10.16552/j.cnki.issn1001-1625.2017.04.053>
- [5] Ye QS, Wu SP, Li N. (2009). Investigation of the dynamic and fatigue properties of fiber-modified asphalt mixtures. *International Journal of Fatigue* 31(10): 1598-1602. <http://doi.org/10.1016/j.ijfatigue.2009.04.008>
- [6] Lee SJ, Rust JP, Hamouda H, Kim YR, Borden RH. (2005). Fatigue cracking resistance of fiber-reinforced asphalt concrete. *Textile Research Journal* 2(75): 123-128. <http://doi.org/10.1177/004051750507500206>
- [7] JTJ052—2011 Standard test methods of bitumen and bituminous mixtures for highway engineering.
- [8] Jiang MY, Zhang B. (2016). Evolution rules of gussasphalt concrete splitting tensile strength under the action of freeze thaw corrosion. *Bulletin of the Chinese Ceramic Society* 3(35): 743-747. <http://doi.org/10.16552/j.cnki.issn1001-1625.2016.03.014>
- [9] Cheng ZQ, Kong FS. (2016). Effect of aggregate surface energy parameters on splitting strength of asphalt mixture. *Journal of Building Materials* 4(19): 779-783. <http://doi.org/10.3969/j.issn.1007-9629.2016.04.030>