导师简介

<table>
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<tr><td>学术头衔/兼职</td><td colspan="5">无</td></tr>
<tr><td>研究方向</td><td colspan="6">道路工程材料</td></tr>
<tr><td>主要学习科研和工作经历</td><td colspan="6">2022.10-至今　郑州大学　黄河实验室 | 直聘副研究员
2020.07-2022.09　郑州大学　力学博士后流动站 | 博士后
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2014.09-2016.07　郑州大学　道路与铁道工程 | 硕士
2010.09-2014.07　华北水利水电大学　水利水电工程 | 本科</td></tr>
<tr><td>代表性科研成果及奖励</td><td colspan="6">一、科研项目
（1）中国博士后面上项目：《非线性粘弹效应作用下聚合物改性沥青疲劳损伤演化规律研究》（主持，No.2021M692918 ）
（2）河南省自然科学基金青年项目：《非线性粘弹效应作用下碳纳米材料改性沥青疲劳特性研究》（主持，No.222300420308 ）
二、论文论著
（1） Wang Riran, Yue Mingjing, Xiong Yuchao, Yue Jinchao*, Experimental study on mechanism, aging, rheology and fatigue performance of carbon nanomaterial/SBS-modified asphalt binders[J]. Construction and Building Materials, 2021, 268: 121189.
（2）Wang Riran, Qi Zemin, Li Ruixia, Yue Jinchao*, Investigation of the effect of aging on the thermodynamic parameters and the intrinsic healing capability of graphene oxide modified asphalt binders[J]. Construction and Building Materials, 2020, 230: 116984.
（3）Wang Riran, Xiong Yuchao, Yue Mingjing, Hao Meimei, Yue Jinchao*, Investigating the effectiveness of carbon nanomaterials on asphalt binders from hot storage stability, thermodynamics, and mechanism perspectives[J]. Journal of Cleaner Production, 2020, 276: 124180.
（4）Wang Riran, Yue Jinchao*, Li Ruixia, Sun Yang, Evaluation of aging resistance of asphalt binder modified with graphene oxide and carbon nanotubes[J]. Journal of Materials in Civil Engineering, 2019, 31(11): 04019274.
（5）Wang Riran, Xiong Yuchao, Ma Xiaopeng, Guo Yajun, Yue Mingjing, Yue Jinchao*,</td></tr>
</table>

Investigating the differences between steel slag and natural limestone in asphalt mixes in terms of microscopic mechanism, fatigue behavior and microwave-induced healing performance[J]. ***Construction and Building Materials,*** 2022, 328: 127107.

（6）Yue Mingjing, Yue Jinchao, **Wang Riran***, Xiong Yuchao, Evaluating the fatigue characteristics and healing potential of asphalt binder modified with Sasobit® and polymers using linear amplitude sweep test[J]. ***Construction and Building Materials***, 2021, 289: 123054. （申请人为唯一通讯作者）

（7）Yue Mingjing, Yue Jinchao, **Wang Riran***, Guo Yajun, Ma Xiaopeng. A comprehensive analysis of fatigue-fracture and healing capacity of Sasobit®/polymer-modified asphalt from two perspectives: binder and fine aggregate matrix[J]. ***Journal of Materials in Civil Engineering***, 2022. Forthcoming, DOI: 10.1061/(ASCE)MT.1943-5533.0004655.（申请人为唯一通讯作者）

（8）Zhai Ming, Li Jinlong, **Wang Riran***, Yue Jinchao, Wang Xiaofeng, Revealing mechanisms of aging and moisture on thermodynamic properties and failure patterns of asphalt-aggregate interface from the molecular scale[J]. ***Journal of Materials in Civil Engineering***, 2022. Forthcoming, DOI: 10.1061/(ASCE)MT.1943-5533.0004656. （申请人为唯一通讯作者）

（9）Wang De Cai, Sun Yang, **Wang Riran**, Li Ruixia, Zhang Qunlei, Yue Jinchao*, ***Journal of Materials in Civil Engineering***, 2022.（Accepted）

（10）Sun Yang, Yue Jinchao, **Wang Riran**, Li Ruixia, Wang Decai*, Investigation of the effects of evaporation methods on the high-temperature rheological and fatigue performances of emulsified asphalt residues[J]. ***Advances in Materials Science and Engineering***, 2020, 2020: 4672413.

三、授权专利

（1）发明专利：《一种动水压力下沥青路面渗水性能试验方法》（专利号 202111434635.9，公开阶段，排名第一 ）

（2）发明专利：《一种有对照组的沥青紫外老化试验方法》（专利号 202111434654.1，公开阶段，排名第二 ）

（3）实用新型专利：《一种动水压力下沥青路面渗水性能试验装置》（专利号 202122952974.8，已授权，排名第二 ）

四、科研奖励

获得 2022 年度河南省教育厅科技成果奖优秀科技论文壹等奖。