

## 导师简介

| 导师简介    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |         |                                                                                     |
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| 姓 名     | 冯雨淋                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 所在学院 | 物电学院    |  |
| 性 别     | 女                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 出生年月 | 1993.02 |                                                                                     |
| 学历学位    | 博士                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 职 称  | 讲师      |                                                                                     |
| 毕业院校    | 华中科技大学                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 指导专业 | 凝聚态物理   |                                                                                     |
| 研究方向    | 低维材料的磁性调控研究; 自旋电子器件的设计以及输运性质(电输运和热输运)研究                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |         |                                                                                     |
| 主要社会兼职  | 无                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |         |                                                                                     |
| 主要代表性成果 | <p>主持项目:</p> <p>国家自然科学基金青年项目 自旋-声子耦合调控的范德瓦尔斯磁性隧道结自旋输运性质理论研究;</p> <p>湖北省自然科学基金项目 二维 VA2X4 范德瓦尔斯器件的输运性质研究</p> <p>湖北省教育厅指导性项目 新型功能器件的设计及其输运性质研究</p> <p>近几年代表论文:</p> <p>1. <b>Yulin Feng</b>, Jiangchao Han, Kun Zhang, Xiaoyang Lin, Guoying Gao, Qing Yang and Sheng Meng. van der Waals multiferroic tunnel junctions based on sliding multiferroic layered VSi2N4, <i>Phys.Rev.B</i>,109,085433,2024.</p> <p>2. <b>Yulin Feng</b>,Wang Zilong,Liu Na,and Qing Yang. First-principles prediction of two-dimensional MnOX (X= Cl, Br) monolayers: the half-metallic multiferroics with magnetoelastic coupling, <i>Nanoscale</i>,15,14:6864-6864,2023.</p> <p>3. <b>Yulin Feng</b> and Qing Yang. Enabling triferroics coupling in breathing kagome lattice Nb3X8(X = Cl,Br,I)monolayers. <i>J.Mater.Chem.C</i>,11.17:5762-5769,2023.</p> <p>4. <b>Yulin Feng</b>,Zilong Wang,Xi Zuo,Guoying Gao.Electronic phase transition,spin filtering effect,and spin Seebeck effect in 2D high-spin-polarized VSi2X4(X=N, P, As), <i>Appl. Phys.Lett.</i>092405,2022.</p> <p>5. <b>Yulin Feng</b>,Na Liu,Guoying Gao.Spin transport properties in Dirac spin gapless semiconductors Cr2X3 with high Curie temperature and large magnetic anisotropic energy, <i>Appl.Phys.Lett.</i>118,112407,2021.</p> |      |         |                                                                                     |
| 电子邮箱    | fengyl@hbnu.edu.cn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |         |                                                                                     |
| 备注      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |         |                                                                                     |