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| 姓名        | 霍为炜                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 性别    | 男      | 出生年月                  | 1985.08           |  |
| 政治面貌      | 党员                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 现任职务  | 无      | 现在职称                  | 副教授               |                                                                                     |
| 最后学历      | 博士研究生                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 最后学位  | 工学博士   | 获学位单位                 | 中国科学院             |                                                                                     |
| 任硕导时间     | 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 任博导时间 | 无      | 通讯地址                  | 北京市海淀区清河小营东路 12 号 |                                                                                     |
| 联系方式      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | E-mail | weiweiho@bistu.edu.cn |                   |                                                                                     |
| 所属学科及学科方向 | 机械工程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | 研究方向 1 | 电动运载装备能量管理与控制         |                   |                                                                                     |
|           | 车辆工程                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | 研究方向 2 | 储能系统管理与控制             |                   |                                                                                     |
| 工作简历      | <p>[1] 2017.05 – 至今 北京信息科技大学 机电工程学院车辆工程系</p> <p>[2] 2013.07 – 2017.05 北京理工大学 电动车辆国家工程实验室 博士后 (导师: 孙逢春院士)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |        |                       |                   |                                                                                     |
| 承担教学任务    | 《单片机应用技术》、《工科化学》                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |        |                       |                   |                                                                                     |
| 在研项目情况    | <p>[1] 2017.07 - 2021.07 国家重点研发计划“新能源汽车重点专项”车用快速动态响应燃料电池发动机研发子课题负责人</p> <p>[2] 2019.01 - 2020.12 北京市自然科学基金 基于场协同理论的车用锂离子动力电池散热机制研究项目负责人</p> <p>[3] 2019.01 - 2020.12 北京市教委科技一般项目 车用动力电池冷却系统协同散热机理与主动冷却研究项目负责人</p> <p>[4] 2018.01 – 2020.12 北京信息科技大学-师资队伍补充计划支持项目项目负责人</p> <p>[5] 2019.01 - 2021.12 广东省重点领域研发计划 燃料电池乘用车整车集成及动力系统平台开发主要参与者</p> <p>[6] 2020.01 - 2021.05 中国工程院咨询研究(院地合作)项目 山西省新能源汽车产业发展战略研究主要参与者</p> <p>[7] 2021.07 - 至今 中国工程院咨询研究(院地合作)项目 江西省汽车新能源技术与产业发展研究主要参与者</p> <p>[8] 2022.01 – 至今 中国工程院咨询研究(院地合作)项目 广东省培育世界级汽车产业集群发展战略研究主要参与者</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |        |                       |                   |                                                                                     |
| 主要论著(近五年) | <p>2022 年</p> <p>[1] <b>Weiwei Huo</b>, Chendong Guo; Research on the thermal comfort of passenger compartment based on the PMV/PPD, <i>International Journal of Thermal Sciences</i>, 2022 (SCI, 中科院 2 区, IF = 4.779)</p> <p>[2] <b>Weiwei Huo</b>, Dong Chen, Sheng Tian; Lifespan-consciousness and minimum-consumption coupled energy management strategy for fuel cell hybrid vehicles via deep reinforcement learning, <i>International Journal of Hydrogen Energy</i>, 2022 (SCI, 中科院 2 区, top 期刊, IF = 7.139)</p> <p>[3] <b>Weiwei Huo</b>, Weier Li, Chao Sun, Xiaodong Wei, Qiang Ren; Research on Fuel Cell Fault Diagnosis Based on Genetic Algorithm Optimization of Support Vector Machine, <i>Energies</i>, 2022 (SCI, 中科院 4 区, IF = 3.004)</p> <p>2021 年</p> <p>[1] <b>Weiwei Huo</b>, Weier Li, Zehui Zhang, Chao Sun, Feikun Zhou, Guoqing Gong; Performance prediction of proton-exchange membrane fuel cell based on convolutional neural network and random forest feature selection, <i>Energy Conversion and Management</i>, 2021 (SCI, 中科院 1 区, top 期刊, IF = 11.533)</p> |       |        |                       |                   |                                                                                     |

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|        | <p>[2] Xiaodong Wei, Jianghao Leng, Chao Sun, Qiang Ren, <b>Weiwei Huo</b>, Fengchun Sun; Co-optimization method of speed planning and energy management for fuel cell vehicles through signalized intersections, <i>Journal of Power Source</i>, 2022 (SCI, 中科院 1 区, top 期刊)</p> <p>[3] Xiaodong Wei, Chao Sun, Qiang Ren, Feikun Zhou, <b>Weiwei Huo</b>, Fengchun Sun; Application of alternating direction method of multipliers algorithm in energy management of fuel cell vehicles, <i>International Journal of Hydrogen Energy</i>, 2021 (SCI, 中科院 2 区, top 期刊, IF = 7.139)</p> <p>[4] Bin Zuo, Zehui Zhang, <b>Weiwei Huo</b> et al. Data-driven flooding fault diagnosis method for proton-exchange membrane fuel cells using deep learning technologies <i>Energy Conversion and Management</i>, 2021 (SCI, 中科院 1 区, top 期刊, IF = 11.533)</p> <p>2020 年及以前 (部分)</p> <p>[1] Yong Chen, <b>Weiwei Huo*</b>, Muyi Lin, Li Zhao; Simulation of electrochemical behavior in Lithium ion battery during discharge process, <i>PLoS ONE</i>, 2018 (SCI, 中科院 3 区, IF = 2.74)</p> <p>[2] Hongwen He, Hui Jia, <b>Weiwei Huo*</b>, Fengchun Sun; Field Synergy Analysis and Optimization of the Thermal Behavior of Lithium Ion Battery Packs, <i>Energies</i>, 2017 (SCI, 中科院 4 区, IF = 3.004)</p> <p>[3] <b>Weiwei Huo</b>, Hongwen He, Fengchun Sun; Microfluidic direct methanol fuel cell by electrophoretic deposition of platinum/carbon nanotubes on electrode surface, <i>International Journal of Energy Research</i>, 2015 (SCI, 中科院 2 区, IF = 5.164)</p> <p>[4] Fengchun Sun, Hongwen He, <b>Weiwei Huo*</b>; Polymer separator and low fuel concentration to minimize crossover in microfluidic direct methanol fuel cells, <i>International Journal of Energy Research</i>, 2015 (SCI, 中科院 2 区, IF = 5.164)</p> |
| 研究方向概述 | 从事储能系统及电动运载装备能量管理与控制相关研究，主要集中于车用动力电池和燃料电池系统建模、多状态估计、故障诊断和能量利用优化控制等方面。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 参加学术团体 | IEEE PES 电动汽车技术委员会 理事<br>Journal of Energy Storage, International Journal of Energy Research, Energy and AI 等期刊审稿人                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 表彰和荣誉  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 备注     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |