

导师简介

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职称	副教授	民族	汉	籍贯	山东沂水	
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学术头衔/兼职	中原青年拔尖人才/中国系统工程学会水利系统工程专业委员会副秘书长					
研究方向	水-能源-粮食耦合分析、能源环境系统分析					
主要学习、科研和工作经历	2018.9-至今，郑州大学，水利科学与工程学院，讲师、副教授 2018.9-2020.10，郑州大学水利工程博士后科研流动站，博士后 2016.9-2017.8，加拿大里贾纳大学，环境工程，联合培养 2013.9-2018.6，华北电力大学（北京），能源环境工程，工学博士 2009.9-2013.6，青岛农业大学，环境科学，理学学士					
代表性科研成果	<p>主持的科研项目：</p> <ol style="list-style-type: none"> 国家自然科学基金青年项目，基于互馈联合风险的城市水-能源耦合系统解析及优化配置方法研究，2020.1-2022.12，主持； 中原青年博士后创新人才支持计划项目，多层多重不确定下区域“水-能-粮”互馈解析及协同优化配置方法研究，2019.9-2020.12，主持； 河南省博士后基金一等面上项目，区域水-能源耦合系统联合随机优化研究，2019.1-2020.12，主持； 河南省教育厅高等学校重点科研项目，城市水资源-能源系统建模及协同优化--以郑州市为例，2020.1-2021.12，主持。 <p>代表性论文：</p> <ol style="list-style-type: none"> Lei Yu (*); Yao Xiao; Xueting Zeng; Yongping Li; Yurui Fan, Planning water-energy-food nexus system management under multi-level and uncertainty, Journal of Cleaner Production, 2020. 4, 251,119658. (SCI, 中科院一区) Lei Yu (*); Yao Xiao; Shan Jiang (*), Yongping Li; Yurui Fan; Guohe Huang; Jing Lv; Qiting Zuo; Fuqiang Wang, A copula-based fuzzy interval-random programming 					

- approach for planning water-energy nexus system under uncertainty, *Energy*, 2020. 1, 196,117063. (SCI, 中科院一区)
3. Xixia Ma; Jingwen Zhang; [Lei Yu \(*\)](#); Yurui Fan; Jinping Zhang, An interval joint-probabilistic stochastic flexible programming method for planning municipal-scale energy-water nexus system under uncertainty, *Energy Conversion and Management*, 2020. 3, 208,112576. (SCI, 中科院一区)
 4. [Lei Yu \(*\)](#); Qianwen Li; Shuwei Jin (*); Cong Chen; Yongping Li; Yurui Fan; Qiting Zuo, Coupling the two-level programming and copula for optimizing energy-water nexus system management - A case study of Henan Province, *Journal of Hydrology*, 2020. 7, 586,124832. (SCI, 中科院一区)
 5. Shuwei Jin (*); Yongping Li; [Lei Yu \(*\)](#);Cai Suo; Kai Zhang, Multidivisional planning model for energy, water and environment considering synergies, trade-offs and uncertainty, *Journal of Cleaner Production*, 2020. 6, 259,121070. (SCI, 中科院一区)
 6. [Lei Yu](#); Yongping Li (*); Guohe Huang, Planning municipal-scale mixed energy system for stimulating renewable energy under multiple uncertainties - The City of Qingdao in Shandong Province, China, *Energy*, 2019. 1, 166:1120-1133. (SCI, 中科院一区)
 7. [Lei Yu](#); Yongping Li (*), A flexible-possibilistic stochastic programming method for planning municipal-scale energy system through introducing renewable energies and electric vehicles, *Journal of Cleaner Production*, 2019. 1, 207: 772-787. (SCI, 中科院一区)
 8. Yanming Ding (*); Wenlong Zhang; [Lei Yu \(*\)](#); Kaihua Yu, The accuracy and efficiency of GA and PSO optimization schemes on estimating reaction kinetic parameters of biomass pyrolysis, *Energy*, 2019. 6, 176:582-588. (SCI, 中科院一区)
 9. [Lei Yu](#); Yongping Li (*); Guohe Huang; Yurui Fan, Shuo Yin, Planning regional-scale electric power systems under uncertainty: A case study of Jing-Jin-Ji region, China, *Applied Energy*, 2018. 2, 212: 834-849. (SCI, 中科院一区)
 10. [Lei Yu](#); Yongping Li (*); Guohe Huang; Yurui Fan, Shuang Nie, A copula-based flexible-stochastic programming method for planning regional energy system under multiple uncertainties: A case study of the urban agglomeration of Beijing and Tianjin, *Applied Energy*, 2018. 1, 210: 60-74. (SCI, 中科院一区)

11. [Lei Yu](#); Yongping Li (*); Baoguo Shan; Guohe Huang; Liping Xu, A scenario-based interval-stochastic basic-possibilistic programming method for planning sustainable energy system under uncertainty: A case study of Beijing, China, *Journal of Cleaner Production*, 2018. 10, 197: 1454-1471. (SCI, 中科院一区)
12. [Lei Yu](#); Yongping Li (*); Guohe Huang; Chunjiang An, A robust flexible-probabilistic programming method for planning municipal energy system with considering peak-electricity price and electric vehicle, *Energy Conversion and Management*, 2017. 4, 137: 97-112. (SCI, 中科院一区)
13. [Lei Yu](#); Yongping Li (*); Guohe Huang; Baoguo Shan, An interval-possibilistic basic-flexible programming method for air quality management of municipal energy system through introducing electric vehicles, *Science of The Total Environment*, 2017. 9, 593-594: 418-429. (SCI, 中科院二区)
14. [Lei Yu](#); Yongping Li (*); Guohe Huang; Baoguo Shan, A hybrid fuzzy-stochastic technique for planning peak electricity management under multiple uncertainties, *Engineering Applications of Artificial Intelligence*, 2017. 6, 62: 252-264. (SCI, 中科院二区)
15. [Lei Yu](#); Yongping Li (*); Guohe Huang; Yanfeng Li; Shuang Nie, Planning carbon dioxide mitigation of Qingdao's electric power systems under dual uncertainties, *Journal of Cleaner Production*, 2016. 12, 139: 473-487. (SCI, 中科院二区)
16. [Lei Yu](#); Yongping Li (*); Guohe Huang, A fuzzy-stochastic simulation-optimization model for planning electric power systems with considering peak-electricity demand: A case study of Qingdao, China, *Energy*, 2016. 3, 98: 190-203. (SCI, 中科院一区)

科技奖励、荣誉称号：

1. 2020 年，河南省高等院校省级高层次人才（C 类）
2. 2020 年，郑州大学青年拔尖人才
3. 2019 年，河南省高层次人才支持“中原千人计划”——中原青年拔尖人才