

姓 名：杨国铭

政治面貌：中共党员

性别：男性

出生年月：1995.07

毕业时间：2025.12

民族：汉族

电话微信：1780597XXXX

电子邮箱：yangguoming1995@gmail.com

籍贯：福建三明

博 导：杨大智（海外优青）



教育工作背景

2014.09–2018.06-----福州大学（211 工程）电气工程与自动化学院-----电气工程及其自动化专业（**工学学士学位**）

2018.09–2021.03-----福州大学（211 工程）电气工程与自动化学院-----电力系统及其自动化专业（**工学硕士学位**）

2022.03–2025.12-----哈尔滨工业大学电气工程及自动化学院-----电气工程专业（学科评估 A）（**工学博士学位**）

2021.08–2021.11-----国网福建省电力有限公司三明供电公司-----初级工程师

科研成果

- G Yang**, D Yang, M J Perez, et al. Hydrogen production using curtailed electricity of firm photovoltaic plants: Conception, modeling, and optimization[J]. **Energy Conversion and Management**, 2024, 308: 118356. (SCI 检索; **中科院一区**; IF 9.9)
- G Yang**, H Zhang, W Wang, et al. Capacity optimization and economic analysis of PV–hydrogen hybrid systems with physical solar power curve modeling[J]. **Energy Conversion and Management**, 2023, 288: 117128. (SCI 检索; **中科院一区**; IF 9.9)
- G Yang**, D Yang, C Lyu, et al. Implications of future price trends and interannual resource uncertainty on firm solar power delivery with photovoltaic overbuilding and battery storage[J]. **IEEE Transactions on Sustainable Energy**, 2023, 14(4): 2036–2048. (SCI 检索; **中科院一区**; IF 8.6)
- G Yang**, D Yang, B Liu, et al. The role of short- and long-duration energy storage in reducing the cost of firm photovoltaic generation[J]. **Applied Energy**, 2024, 374(15):123914. (SCI 检索; **中科院一区**; IF 10.1)
- G Yang**, D Yang, X Chen, et al. A multi-model multi-method ensemble (4ME) assessment of future photovoltaic potential in northern China[J]. **Energy**, 2025, 330:136564. (SCI 检索; **中科院一区**; IF 9.0)
- G Yang**, D Yang, B Liu, et al. Optimized hydrogen production with proactively curtailed electricity from firm renewable systems[J]. **Solar Energy**, 2025, 297:113547. (SCI 检索; **中科院二区**; IF 6.0)
- G Yang**, Y Jiang, S You. Planning and operation of a hydrogen supply chain network based on the off-grid wind-hydrogen coupling system[J]. **International Journal of Hydrogen Energy**, 2020, 45(41): 20721–20739. (SCI 检索; **中科院二区**; IF 5.8)
- G Yang**, D Yang. Optimal photovoltaic–battery coordinated forecasting: Plant configuration and reliability assessment [J]. **Journal of Energy Storage**, 2026, 181: 124450. (SCI 检索; **中科院二区**; IF 10.7)
- G Yang**, Y Jiang. Siting and sizing of the hydrogen refueling stations with on-site water electrolysis hydrogen production based on robust regret[J]. **International Journal of Energy Research**, 2020, 44(11): 8340–8361. (SCI 检索; **中科院三区**; IF 5.2)
- 江岳文, **杨国铭***, 陈宇辛, 等. 考虑电解槽动态制氢效率的氢网运行优化[J]. 中国电机工程学报, 2023, 43(8):3014–3026. (本人通讯; EI 检索; **国内顶级中文期刊**; IF 7.1)
- D Yang, **G Yang**, B Liu. Combining quantiles of calibrated solar forecasts from ensemble numerical weather prediction[J]. **Renewable Energy**, 2023, 215: 118993. (SCI 检索; **中科院一区**; IF 9.0)
- D Yang, **G Yang**, M J Perez, et al. Effectively dispatchable solar power with hierarchical reconciliation and firm forecasting[J]. **Journal of Modern Power Systems and Clean Energy**, 2024. (SCI 检索; **中科院一区**; IF 5.7)

13. 江岳文, **杨国铭**, 朱振山. 考虑交通流量捕获的风-氢-电耦合网络规划[J]. **电力系统自动化**, 2021. (国内顶级中文期刊; IF 8.1)

13. **G Yang**, D Yang, C Lyu, et al. Firm photovoltaic generation through battery storage, overbuilding, and proactive curtailment[C]//2022 4th International Conference on Smart Power & Internet Energy Systems (SPIES). IEEE, 2022: 1997–2002. (EI 会议)

14. **G Yang**, W Wang, B Liu, et al. Optimal operation of electric-heat-hydrogen integrated energy system considering conditional value-at-risk[C]//2023 IEEE 6th International Electrical and Energy Conference (CIEEC). IEEE, 2023: 818–823. (EI 会议)

15. 江岳文, **杨国铭**. 一种考虑交通流量捕获的风-氢-电网耦合规划方法[P]. (授权)

16. 杨大智, **杨国铭**, 吕超. 一种基于光伏扩建和电池储能的太阳能稳固发电方法[P]. (授权)

17. 杨大智, **杨国铭**. 确定性框架下光伏功率的层级式协调预测方法[P]. (授权)

18. **G Yang**, Y Chen, D Yang, et al. Robust optimization for firm photovoltaic systems with probabilistic solar power curves[J]. **International Journal of Hydrogen Energy**. (SCI 期刊; **中科院二区**; IF 9.2; **一审中**)

19. **G Yang**, D Yang, J Hussain, et al. Optimal day-ahead scheduling for a photovoltaic-ammonia-battery system with refined component modeling and annual ammonia storage inventory tracking [J]. **International Journal of Hydrogen Energy**. (SCI 期刊; **中科院二区**; IF 9.2; **一审中**)

20. W Lin, X Ren, H Sun, **G Yang***. Distributionally robust chance-constrained planning for an off-grid photovoltaic-ammonia-battery hybrid system with long-duration power-to-ammonia-to-power storage [J]. **International Journal of Electrical Power & Energy Systems**. (本人通讯; SCI 期刊; **中科院二区**; IF 5.3; **一审中**)

参与科研项目

- 基于风云-4A 卫星的可调度太阳能资源全链条算法研究, **国家自然科学基金面上项目**, 项目编号: 42375192
- 清洁能源的气候变化风险识别与响应研究, **中国气象局科技与气候变化司**, 项目编号: QBZ202315
- 黑龙江太阳能资源评估以及 BSRN 站选址研究, **国网黑龙江省电力有限公司科技项目**, 项目编号: MH20220699

学生工作

2024.03–2025.12-----担任电力系统博士生党支部组织委员, 积极参与支部组织的活动

2019.09–2020.06-----作为**院研会生活部部长**, 提高了与人沟通, 统筹协调管理的能力

2017.09–2018.06-----担任电气学院 2014 级 5 班**班长**, 锻炼了认真处理事情的本领

荣誉奖励

2024.11 获得哈尔滨工业大学电气工程及自动化学院 **2024 年博士研究生国家奖学金**

2021.04 获得福州大学 2021 届**优秀硕士毕业生**

2020.10 获得福州大学电气工程与自动化学院 **2020 年硕士研究生国家奖学金**

2018.11 获得福州大学 2018 级硕士研究生**优秀新生特等奖学金**

2018.06 获得福州大学电气工程与自动化学院 2018 届**本科优秀毕业生**