

李瑶

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## 教育与工作经历

- ◇ 2014.9-2018.7 曲阜师范大学 物理学 理学学士
- ◇ 2018.9-2021.7 大连理工大学 等离子体物理学 理学硕士
- ◇ 2021.9-2025.6 大连理工大学 等离子体物理学 理学博士
- ◇ 2025.7-至今 鲁东大学 物理与光电工程 讲师

## 研究方向

- ◇ 等离子体源的设计与开发、等离子体特性诊断、等离子体固氮应用研究、等离子体甲烷干重整应用研究、等离子体技术在化工、材料、环境、能源领域的应用研究

## 代表性成果

- [1] Li Y, Yand D Z, Qiao J J, et al. The dynamic evolution and interaction with dielectric material of the discharge in packed bed reactor. *Plasma Sources Science and Technology*, 2020, 29(5): 005004.
- [2] Li Y, Qin L, Wang H L, et al. High efficiency NO<sub>x</sub> synthesis and regulation using dielectric barrier discharge in the needle array packed bed reactor. *Chemical Engineering Journal*, 2023, 461: 141922.
- [4] Li Y, Li S S, Lu K, et al. Energy efficient NO<sub>2</sub> synthesis using microwave plasma torch combined with catalyst: a method for sustainable nitrogen fixation. *Journal of Environmental Chemical Engineering*, 2025, 13: 115887.
- [4] Li Y, Yand D Z, Qiao J J, et al. Discharge modes and characteristics optimization of nanosecond pulsed discharge in packed bed reactor. *Journal of Physics D: Applied Physics*, 2021, 54(24): 245206.
- [5] Li Y, Li S S, Feng Y, et al. Fast breakdown process and characteristics diagnosis of nanosecond pin-pin discharge. *Journal of Physics D: Applied Physics*, 2024, 57: 225201.
- [6] Li Y, Qin L, Yang D Z, et al. The Effect of voltage pulse shape on the discharge characteristics in the packed bed reactor under air and nitrogen. *Applied science-basel*, 2022, 12: 2251.