

叶桓汝

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意向岗位：研发应用类



教育经历

2021.09-2024.06	华东理工大学	工学硕士	化学工程与技术	TOP: 5%
2017.09-2021.06	华东理工大学	工学学士	化学工程与工艺	TOP: 20%

实习经历

2023.07-2023.08	妮维雅(上海)有限公司	理化分析部实习生	<ul style="list-style-type: none">操作流变仪、LUMI、Turbiscan 等仪器完成样品物性测试，分析测试数据，完善相关数据报告；支持理化分析数据结构化。以 turbiscan 评估乳液稳定性，相比于目测观察法，实现了对乳液稳定性的客观化评价及样品的量化分级，有效缩短研发周期。以 DLS 为参考，成功建立了 turbiscan 测定纳米乳液粒径的方法，基本完成了相关方法文件及技术报告。
2022.10-2023.03	索尔维投资有限公司	香料及功能化学品部实习生	<ul style="list-style-type: none">掌握香兰素的合成工艺，辅助完成目标化学品的合成及分析工作，并汇成报告以进行评估。根据工厂的需求和反馈优化香兰素合成工艺，辅助完成固体酸催化剂的相关测试及表征。

校园经历

2020.03-2020.07	化工设计竞赛	<ul style="list-style-type: none">通过信息调研、各工艺分析后拟定小组产品、设计工艺路线；分配协调任务，以积极负责的态度和成长型思维推动项目进程。负责工艺流程优化和设备设计&选型，使用 Aspen 进行流程模拟优化，短时间内自学 KG-Tower、SW6-2011 等软件完成了对反应器、塔器等 80 个设备进行设计选型，汇成文档累计 100 页，设计源文件及图纸 20 余份。小组斩获第十四届全国大学生化工设计竞赛三等奖。
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科研经历

2022.08-至今	上海市多相结构材料化学工程重点实验室	<ul style="list-style-type: none">课题名称：中空介孔纳米催化反应器的可控合成及其选择性加氢性能研究课题内容：以反相微乳液模版法合成了包裹 Pd-Ni_xO_y 杂化纳米粒子的中空多孔二氧化硅纳米反应器(Pd-Ni_xO_y@HPSNs)，运用 XRD、TEM、FT-IR、H₂-TPR、TG 等手段表征其形貌结构，并用于硝基苯酚的催化氢化。课题成果：由于金属-金属氧化物的协同作用，Pd-Ni_xO_y@HPSNs 表现出比 Pd@HPSNs 和 Ni_xO_y@HPSNs 更优异的催化性能。
2020.12-2021.06	上海市多相结构材料化学工程重点实验室	<ul style="list-style-type: none">课题名称：含贵金属的中空介孔二氧化硅纳米反应器的合成及其在加氢反应中的应用课题内容：以电荷驱动胶束为模板，合成了包裹有 Pd-Fe_xO_y 复合纳米颗粒的中空介孔二氧化硅纳米反应器，并应用于催化硝基芳烃加氢反应。课题成果：该催化剂表现出对硝基苯及其衍生物优异的催化性能，该毕业设计获优秀本科毕业论文(仅 10%)。

技能及荣誉

- 软件：计算机二级/CAD/Aspen/Origin/Turbisoft
- 语言：CET-6、CATTI-III
- 校优秀学生、校优秀学生干部
- 学业奖学金一等奖、国家励志奖学金

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Objective: R&D/AE



Education Background

2021.09-2024.06	East China University of Science and Technology	Master	Chemical Engineering and Technology
2017.09-2021.06	East China University of Science and Technology	Bachelor	Chemical Engineering and Technology

Intern Experience

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| 2023.07-2023.08 | Beiersdorf | Analytics Intern |
| <ul style="list-style-type: none">● Operate rheometer, LUMI, turbiscan and other instruments to complete relevant tests, analyze the test data, and complete the relevant reports; support the structuring of physicochemical analysis data.● Evaluate emulsion stability by turbiscan. Compared with visual observation, it achieves emulsion stability objectification, sample quantification and ranking and effectively shortens the R&D cycle.● Successfully develop the nano particle size test method and basically complete the related method documents and technical reports. | | |
| 2022.10-2023.03 | Solvay CN | Aroma Performance Intern |
| <ul style="list-style-type: none">● Master the synthesis mechanism and technology of vanillin.● Complete the synthesis and analysis of target chemicals, and analyze experimental results.● Explore the influence of reaction conditions, catalyst performance and other factors on product yield to optimize the process according to the requirement and feedback from factory.● Assist the relevant test and characterization of solid acid catalysts. | | |

School Experience

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| 2020.03-2020.07 | National Student Chemical Design Competition |
| <ul style="list-style-type: none">● Determine the target products and main processes through information research and process analysis.● Take the initiative to undertake the process optimization and equipment design & selection. Use Aspen for process simulation optimization, self-study KG-Tower, SW6-2011 and other software to complete the selection of 80 equipment such as reactors and towers, and provide more than 20 design source files and drawings.● Assign and coordinate tasks. Promote the project process with an active and responsible attitude and growth mindset.● Win the third prize in the 14th National Student Chemical Design Competition. | |

Research Experience

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| 2022.08-now | Shanghai Key Laboratory of Multiphase Structure Chemical Engineering |
| <ul style="list-style-type: none">● Pd-Ni_xO_y hybrid nanoparticles encaged hollow porous silica nanoreactors (Pd-Ni_xO_y@HPSNs) were synthesized by a reverse microemulsion templating method and used for the catalytic transfer hydrogenation of nitrophenol.● Compared with Pd@HPSNs and Ni_xO_y@HPSNs, the Pd-Ni_xO_y@HPSNs exhibited superior catalytic performance due to the synergistic metal-metal oxide effect. | |

Skills& Honors

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| <ul style="list-style-type: none">● Outstanding Student / Excellent Student Cadre● First Prize of Academic Scholarship● National Inspirational Scholarship | <ul style="list-style-type: none">● Software: CAD/Aspen/Origin/Turbisoft● Language: CET-6 / CATTI-III |
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