Curriculum Vitae

Yijia He

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EDUCATION

Feb 2019 – Dec 2020	University of Adelaide (UoA)		Chemical Engineering	Master
Sep 2014 – Jun 2018	Huazhong	Agriculture	Food Safety and Security	Bachelor
Sep 2014 – Juli 2018	University (HZAU)		rood Safety and Security	Bachelol

[•] experimental courses score of chemistry averaged over 86 (total 100), experimental courses score of biochemistry averaged over 88 (total 100) in HZAU.

RESEARCH INTEREST

Material Chemistry.

PUBLICATIONS & RESEARCH PAPERS

PUBLICATIONS	2018	钱秋红,夏铭,何易珈,等. 紫薯鲜料非油炸方便面的研制[J]. 食品科技,2018,43(4):159-165. (Qiuhong Qian, Ming Xia, Yijia He <i>et al.</i> Food chemistry: Development of Purple Sweet Potato Fresh Material and Non-
	2017	Fried Instant Noodles. Food Science, 2018,43(4):159-165.) 成令茹,谢定源,钱秋红,等. 2000-2012 年中国农村居民食物消费现状及其与气候的相关性[J]. 卫生研究,2017,46(6):861-867. (Lingru Cheng, Dingyuan Xie, Qiuhong qian <i>et al.</i> Current situation of food consumption and its correlation with climate in rural China from 2000 to 2012. Journal of Hygiene Research, 2017,46(6):861-867)
WORKING PAPERS	2021	A Review on Preparation and Application of Superhydrophobic Surfaces: from Fluorine to Nature. Macroscopic Carbon Materials derived from BioSource for
		environmental applications.
UNPUBLISHED PAPERS	Sep 2020	environmental applications. How Biomass can Replace the Oil Barrel?
UNPUBLISHED PAPERS	Sep 2020 Jun 2020	environmental applications.
UNPUBLISHED PAPERS	•	environmental applications. How Biomass can Replace the Oil Barrel? Case Study: Chernobyl Disaster. Membrane process plant to treat secondary effluent for reuse: a conceptual
UNPUBLISHED PAPERS	Jun 2020	environmental applications. How Biomass can Replace the Oil Barrel? Case Study: Chernobyl Disaster. Membrane process plant to treat secondary effluent for reuse: a conceptual design.

REASEARCH EXPERIENCE

Sep 2020 – Dec 2020	Second master project about BioSource carbon nanomaterial for environmental application.
	 Outcomes: a literature review (for publishing), a presentation.
Sep 2020 – Dec 2020	Biomass as a potential alternative to oil barrel (group research). • Contribution: the biodiesel and bioethanol as two possible commercial application.
Apr 2020 – Jun 2020	A conceptual design about membrane process plant to treat secondary effluent for reuse.

[•] Nanomaterial as Master project. Participation in an online course on bionics of superhydrophobic materials.

	• Contribution: discussed the membrane processes Advanced Water Treatment Plant under prescribed condition and sizing all major equipment in the report.
Mar 2020 – Jun 2020	First master project about food-based raw material graphene. • Contribution: a paper about project outline and plan as a group.
Oct 2019 – Nov 2019	Blood plasma separation and fractionation. • Contribution: different methods of separation and membranes, including its biocompatibility, large-scale application, etc.
Aug 2019 – Oct 2019	A conceptual design for a grassroots cumene process. • Contribution: synthesize the production process via the Means-Ends Analysis method, simulate the process using Aspen HYSYS software, and optimize the PFD following the process simulation.
Apr 2017 – Jun 2018	Participation in Food Science and Technology Laboratory in HZAU. • Outcomes: participated in two food chemistry projects in the laboratory.
PRACTICAL EXPERIENCES	
Aug 2020 – Oct 2020	A three-month internship in a factory mainly engaged in chlor-alkali industry and polyvinyl chloride production.

SKILLS

MATLAB. HYSYS. Python.