

QUYEN KIM THI DOAN

ENVIRONMENTAL ENGINEERING

I am eager to learn. I believe that diligence and a proper mindset will pave the way to success.



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AREA OF EXPERTISE

Solid waste
management

Waste to material

CO₂ capture

Adsorption process

Catalytic materials

Aerogel material

Life cycle assessment

EDUCATION

National Central University (Taiwan) (2017-2023)

- PhD degree
- Major: Environmental Engineering
- Graduation thesis: Synthesis of hybrid aerogel for CO₂ adsorption

Viet Nam National University Ho Chi Minh City HCM University of Technology (2015-2017)

- Master degree
- Major: Environmental Engineering
- Graduation thesis: Disinfection of ground water using photocatalytic system under solar irradiation

HCMC University of Technology and Education (Viet Nam) (2010-2014)

- Engineer degree
- Major: Environmental Engineering
- Graduation thesis: Design of drinking disinfection pilot using photocatalytic material under UVC-light

WORK EXPERIENCES

Lecturer

TON DUC THANG UNIVERSITY | Ho Chi Minh City, Viet Nam

09/2023-Now

Department Assistant

HCM UNIVERSITY OF TECHNOLOGY AND EDUCATION | Ho Chi Minh
City, Viet Nam

2016-2017

Quality Management System (QMS)

TMI VIETNAM CO., LTD | Ho Chi Minh City, Viet Nam

2015-2016

ACADEMIC EXPERIENCES

Doctoral Student

Graduate Institute of Environmental Engineering | National Central University, Taiwan **2017-2023**

- Teaching assistant
- Participating in empirical research in the relevant areas.
- Presenting results at international conferences and seminars
- Carrying out research towards a doctoral degree.

Participation in research projects

- Analysis techniques and characteristics of irrigation channel sediments | Organized by SINOTECH Engineering Service, LTD. (Taiwan) **2021-2022**
- Characteristics and composition analysis of municipal solid waste | Organized by Taiwan Ministry of Science and Technology **2018-2019**
- Developing a household water treatment equipment using photocatalytic material under solar light | Organized by Heineken Viet Nam **2016-2017**

LANGUAGES

- Vietnamese
Native proficiency
- English
Professional working proficiency
- Chinese
Primary proficiency

SKILLS

- Planning and Teamwork
- Problem solving and analysis
- Communication and writing

AWARDS

- Best student oral presentation
15th Annual International Conference on the Challenges in Environmental Science and Engineering **2022**
- Amcham Women in Engineering Scholarship
American chamber of commerce in Vietnam **2013, 2014**
- Toyota scholarship for the excellent academic record
Toyota Vietnam Foundation **2013**

PUBLICATION LISTS

Doan, K. Q. T., and K. Y. Chiang., 2023. Statistical optimization of cellulose nanocrystal from cotton cloth waste using sulfuric acid hydrolysis and response surface methodology. International Journal of Environmental Science and Technology, 1-14.

Doan, Q.K.T., Chiang, K.Y., 2023. Facile synthesis of polyethyleneimine-modified cellulose nanocrystal/silica hybrid aerogel for CO₂ adsorption. Environmental Science and Pollution Research, 1-18.

Doan, T.K.Q., Chiang, K.Y., 2022. Characteristics and kinetics study of spherical cellulose nanocrystal extracted from cotton cloth waste by acid hydrolysis. Sustainable Environment Research 32, 1-14.

Hoang, N.T.-T., **Doan, Q.K.T.**, Le-Thanh, A., Tran, A.T.-K., Huy, N.N., 2021. Application of an enhanced pilot-scale photocatalytic treatment system in ground and river water treatment for drinking purpose using sunlight. Nanotechnology for Environmental Engineering 6, 1-9.

Hoang, N.T.-T., **Doan, Q.K.T.**, Le-Thanh, A., 2018. Antibacterial efficiencies of Ag-TiO₂ (P25) catalyst under different light condition. Journal of Technical Education Science No. 48, 78-83.

Hoàng Thị Tuyết Nhung, **Đoàn Thị Kim Quyên**, Nguyễn Thế Vinh, Nguyễn Nhật Huy, và Trần Tiến Khôi, 2016. Mô hình khử trùng nước kết hợp vật liệu xúc tác quang Ag-TiO₂-SiO₂ và ánh sáng mặt trời tự nhiên. Tạp chí Tài nguyên và môi trường kỳ 2, số 22, trang 35-37.

INTERNATIONAL CONFERENCE PAPERS

Doan, T.K.Q., Chiang, K.Y*. A promising absorbent of cellulose nanocrystal-silica hybrid aerogel for CO₂ capture. 15th Annual International Conference on the Challenges in Environmental Science and Engineering (CESE 2022).

Doan, T.K.Q., Chiang, K.Y*. Analysis of cellulose nanocrystal extraction from cotton cloth waste: A response surface methodology study. 14th Annual International Conference on the Challenges in Environmental Science and Engineering (CESE 2021).

Doan, T.K.Q., Hoang, T.T.N., Tran, T.K., Nguyen, N.H.. Performance of Ag-TiO₂-SiO₂ Photocatalysts In Photocatalytic Disinfection Of Water Under Solar Irradiation. South East Asian Technical University Consortium Symposium, Ho Chi Minh, Vietnam, 2017.