**Yeqing Zhang**

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**EDUCATION**

**Norwegian University of Science and Technology (NTNU) Trondheim, Norway**

* MSc in Environmental Engineering 09/2016-08/2017
* GPA: 4.54/5.0

**Chalmers University of Technology Gothenburg, Sweden**

* MSc in Energy and Environmental Systems and Technology 08/2015-06/2016
* GPA: 4.54/5.0
* **ESA and relative tools:** LCA, Input per service (MIPS), CBA, CEA
* **Computer skills:** GaBi (LCA), MATLAB, QMRA,Minitab, PCSWMM, EPANET, Mike three, QMRA, Hec-RAS, JASS

**WORKING EXPERIENCES**

**Bristol Myers Squibb (Shanghai Plant) Shanghai, China**

**Environmental Engineer, Full-Time 02/2022-10/2022**

* Conducted research and supported the plant **environmental impact assessment (EIA)**
* Carried out plant’s environmental risk assessment and management, incl. air management & ODS, GHG emission, pollution control on soil and underground water, etc.
* Assessed the applicable EHS laws and regulations, initiating projects to fulfill the gaps

**Parfums Christian Dior (Shanghai Plant) Shanghai, China**

**EHS Engineer, Full-time 02/2019-02/2022**

* Undertook various plant’s environmental related projects, such as clean production project, unorganized VOCs emission reduction project, etc.
* Developed and maintained the critical environmental programs implementation to foster the EHS culture in plant, e.g., environmental risk analysis, environmental incident investigation, etc.

**PUBLICATIONS & CONFERENCE**

Yinghong Gao, **Yeqing Zhang**, et al. *A multivariate study of backpulsing for membrane fouling mitigation in produced water treatment*, Journal of Environmental Chemical Engineering, 2021.

Yangang Sun, **Yeqing Zhang**, et al. *Synthesis and visible-light photocatalytic properties of ZnO flake-like ensembles,* Micro & Nano Letters, 2012.

**SELECTED COURSE PROJECTS**

**LIFE CYCLE ASSESSMENT ON SWEDISHLAUNDRY FACILITIES 02/2016-08/2016**

* Applied a **consequential LCA approach by GaBi** to evaluate the environmental impacts of two Swedish laundry alternatives, the shared laundry system and the individual laundry system
* Further assessed the project by material **input per service unit (MIPS)**

**RISK ASSESSMENT OF DRINKING WATER SUPPLY IN Sjödahl 01/2016-06/2016**

* Evaluated the risks concerning drinking water supply, ground stability, accidents with hazardous goods and contamination problems and applied risk-based decision analysis for designing and evaluating risk controlling measures
* Evaluated alternative risk control actions **cost benefit analysis (CBA)** and **cost effectiveness analysis (CEA)**
* Scored and weighted of different criterions in the MCA model through software web-HIPRE
* Performed **Monte Carlo simulations** to estimate risk reduction associated to each alternative by spreadsheet-based application **Oracle Crystal Ball**

**STORMWATER NETWORK DESIGN FOR TRONDHEIM 08/2016-12/2016**

* Upgraded the existing stormwater network in Trondheim by using PCSWMM
* Designed and implemented the integrated and sustainable stormwater solutions to newly development area

**WATER QUALITY MODELLING 2015/8-2015/12**

* Performed hydrodynamic modelling (MIKE software) to study how the contamination sources can affect the water quality at the intake of the drinking water treatment plant
* Set up the water quality model by ECO Lab module of the MIKE software

**RESEARCH EXPERIENCES**

**BACKPULSING STRATEGY FOR MEMBRANE FOULING COTROL IN PRODUCTED WATERTREATMENT**  **01/2017-07/2017**

*Master thesis; Supervisor: Prof.* *Stein Wold Østerhus(NTNU)*

* Studied the mechanisms of backpulsing (BP) on membrane performance in the filtration of synthesized produced water with α-Al₂O₃ ceramic membranes
* Applied full factorial design (FFD) method to investigate the significant BP parameters, interactions, and optimum conditions with respect to final permeability and net yield

**SYNTHESIS AND VISIBLE-LIGHT PHOTOCATALYTICPROPERTIES OF ZnO FLAKE-LIKE ENSEMBLES 01/2011-12/2012**

*Team leader (4-person group); Supervisor: Prof. Yangang SUN (SUES)*

* Investigated the morphology, size and micro/nanostructure of ZnO and their impact on the degradation of organic pollutants
* Fabricated the Nanosheet-assembled ZnO flake-like ensembles by a facile solution-based route
* Obtained ZnO ensembles with high photocatalytic activity for decomposing malachite green

**ACTIVITIES**

**Chalmers Barockensemble (Violin player) 09/2015-06/2016**