GHOLAMABBAS SADEGHI

Department of Environmental Technology, Wageningen University & Research (WUR), Wageningen, The Netherlands

Email: gholamabbas.sadeghi@wur.nl & gsad@wetsus.nl, Linkedin: Gholamabbas Sadeghi | LinkedIn Mobile: +31 61 309 1555

- EDUCATION

PhD, Environmental Technology, Wageningen university & Research/Wetsus, European Centre of Excellence for Sustainable Water Technology, Netherlands (2023-2027).

• Thesis: Enhancing local water cycle via evaporation for a sustainable water supply

Eng.D, Energy and Process Technology, University of Twente, Netherlands (2020-2022).

• Thesis: Innovative shape-stabilized PCM for direct solar receiver-storage

MSc., Mechanical Engineering (Energy Conversion), Razi University, Iran (2017, GPA: 3.76/4).

• Thesis: Experimental investigation of a thermoelectric-based solar desalination-thermal system

BSc., Mechanical Engineering (Heat & Flow), Shahid Bahonar University of Kerman, Iran (2015).

• Thesis: Reverse osmosis technique for desalination and water treatment

- RESEARCH INTERESTS

Solar desalination, photothermal energy conversion, phase change heat transfer, nanotechnology

- WORK EXPERIENCE	
03/2023-03/2027	 PhD researcher at WUR and Wetsus Laboratory working on photothermal membrane technology for solar steam generation <u>Enhancing Local Water Cycle Via Evaporation for</u> a Sustainable Water Supply - SENSELinkLinkLl, NL
8/2022-01/2023	 Predoctoral research on water intrusion-extrusion in nanoporous materials using mercury porosimeter at CICenergiGUNE, Spain.
4/2021-4/2022	 Researcher at the University of Twente and TKI Urban Energy working on materials synthesis and characterization and working with furnace to expand graphite flakes along with constructing parabolic trough solar collectors and a large-scale solar simulator, <u>Link</u>
9/2020-12/2020	Internship at Philips lighting Company, NL
10/2017-10/2019	 Military service in Iranian Army Ground Forces (administration work)

- HONOURS & AWARDS

2023	•	Winning the PhD project scholarship at Wageningen University & Research (WUR), NL
2022	•	Winning the TA doctoral scholarship at UC Merced, California, USA
2021	•	Nominated for the PDS award at the University of Manchester, UK
2020	•	Invited talk as an elite speaker at Materials Summit 2020 Conference in London (certificate offered)
2020	•	Winning the scholarship for an Engineering Doctorate (Eng.D) project at the University of Twente, NL
2018	•	Award from the Iranian Ministry of Science as a talented nano-based researcher

- TEAM CONTRIBUTION

- Teaching Advanced Thermodynamics to master students at Razi University
- Supervising master students at the University of Twente and defining their theses
- PPT presentation to report the progress of project.

- LANGUAGE PROFICIENCY

English: fluent (IELTS: 7) , Dutch and Spanish: elementary

- SELECTED PUBLICATIONS (Google Scholar link)

[1]. Sadeghi, G., Mehrali, M., Shahi, M., Brem, G., & Mahmoudi, A. (2022). Experimental analysis of shape-stabilized PCM applied to a direct-absorption evacuated tube solar collector exploiting sodium acetate trihydrate and graphite. Energy Conversion and Management, 269. https://doi.org/10.1016/j.enconman.2022.116176.

[2]. Sadeghi, G., Mehrali, M., Shahi, M., Brem, G., & Mahmoudi, A. (2022). Progress of experimental studies on compact integrated collector-storage retrofits adopting phase change materials. Solar Energy, 237, 62-95, https://doi.org/10.1016/j.solener.2022.03.070.

[3]. Sadeghi, G. (2022). Energy Storage on Demand: Thermal Energy Storage Development, Materials, Design, and Integration Challenges. Energy Storage Materials, 46, https://doi.org/10.1016/j.ensm.2022.01.017.

[4]. Sadeghi, G., & Nazari, S. (2021). Retrofitting a thermoelectric-based solar still integrated with an evacuated tube collector utilizing an antibacterial-magnetic hybrid nanofluid. Desalination, 500, [114871]. https://doi.org/10.1016/j.desal.2020.114871.

- SKILLS & SOFTWARE

Proficient in designing experimental setups, materials synthesis, data processing, academic writing, and being able to work with 3D printers, Python, SOLIDWORKS, LabVIEW, Origin

HOBIES

Walking, gym, playing guitar, playing frisbee, music.

REFERENCES

- Prof. Bert Hamelers (Full Professor of Environmental Technology at Wageningen University & Research)
 Email: bert.hamelers@wur.nl.
- Dr. Slawomir Porada (Assistant Professor of Polymer and Carbon Materials at Wroclaw University of Science & Technology)

Email: Slawomir.porada@wetsus.nl

- Prof. Mehran Ameri (Full Professor of Mechanical Engineering at University of Kerman)
 Email: <u>Ameri m@uk.ac.ir</u>.
- Dr. Mohammad Mehrali (Assistant Professor of Thermal Engineering at the University of Twente)
 Email: m.mehrali@utwente.nl.