



- [Home](#)
- [Zhaoyang Liu](#)

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Zhaoyang Liu Senior Scientist

Water science and technology

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Biography

Dr. Zhaoyang Liu, Senior Scientist at Qatar Environment Research Institute (QEERI), Hamad Bin Khalifa University (HBKU). His research involves wastewater treatment and seawater desalination with advanced materials and processes. He is credited with having authored a number of high impact research papers published in prestigious journals, such as "Energy & Environmental Science", "Advanced Materials", "Nano Letters" etc., and his pioneering research in water treatment has been featured in top journal "Nature". His research work was frequently cited (h-index 32, Google Scholar, Nov. 2017). He holds 4 international patents for water production, and some of which have been successfully licensed to commercial enterprise. He was the co-founder of a tech startup in Singapore specialized in membrane-based water treatment. He is Editorial Board Member of Scientific Reports - a Nature journal, as the result of his remarkable research profile within the global scientific community of water treatment.

Research Interests

- Wastewater treatment and seawater desalination

Experience

Wastewater treatment and seawater

Dr. Liu has been working at Nanyang Technological University, Singapore. His research involved wastewater treatment and seawater. In addition to fundamental research, Dr. Liu has been active in making his research relevant to industry application. Some of his invention patents have been successfully licensed to commercial enterprise. Under the support of Singapore government, he co-founds a tech start-up specialized in membrane-based water treatment.

2006-14

Education

Environmental Science and Technology

Dalian University of Technology, China

2005

Selected Publications

- **Deato Qin, Zhaoyang Liu*, Hongwei Bai, Darren Sun, Xiaoxiao Song**

"A new nano-engineered hierarchical membrane for concurrent removal of surfactant and oil from oil-in-water nanoemulsion", Scientific Reports 6, Article number: 24365

2016

- **Song, X.X., Zhaoyang Liu* and D.D. Sun**

"Energy Recovery from the Brines of Seawater and Wastewater Using Thin-film Nanofiber Composite Pressure Retarded Osmosis Membranes". Energy and Environmental Science, 6(4), pp1199-1210.

2013

- **Liu, Zhaoyang. H.W. Bai, J. Lee and D.D.Sun**

"A Low-Energy Forward Osmosis Process to Produce Drinking Water" Energy and Environmental Science, vol. 4, pg. 2582-2585.

Honors and Awards

- Editorial Board Member of Scientific Reports - a Nature journal.
- [Biography](#)
- [Research Interests](#)
- [Experience](#)
- [Education](#)
- [Selected Publications](#)