

World Congress on  
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### **Biomimetic advanced membrane technologies**

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Clean water as basic human need is not available to 1.4-1.8 billion people around the world. It is essential to direct current research trends toward sustainable water and wastewater treatment technologies that can solve the existing industrial and environmental issues, especially when it comes to solutions that can be successfully commercialized on the global scale. Membrane applications are the most effective and sustainable methods of addressing environmental problems in treating water and

wastewater to meet or exceed stringent environmental standards. Nevertheless, membrane fouling is one of the primary operational concerns that are currently hindering its widespread application. My major research focus is to optimize the synthesis of biomimetic and bioinspired membranes designed with antifouling, self-cleaning, and selective permeation that will pave the way for the production of clean water.

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