Pei Dong, PhD

Assistant Professor, Mechanical Engineering

Education

PhD, Mechanical Engineering, Rice University

Key Interests

Materials Science | Nanomaterials | Water Treatment | Water Desalination | Water Decontamination | Energy | Renewable Energy | Solar Cell | Battery | Biosensor

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SELECT PUBLICATIONS

- Dong, P., *et.al.* (2020). Functionalized separator for next-generation batteries. *Materials Today*.
- Dong, P., *et al.* (2017). A flexible solar cell/supercapacitor integrated energy device. *Nano Energy*. 42, 181-186.
- Dong, P., *et al.* (2016). A solid-liquid self-adaptive polymeric composite. *ACS Applied Materials & Interfaces*.
- Dong, P., *et.al.* (2014). Vertically aligned carbon nanotubes/graphene hybrid electrode as a TCO- and Pt-Free flexible cathode for application in solar cells. *Journal of Materials Chemistry A*. 2(48), 20902-20907.

Research Focus

I am an assistant professor in the Department of Mechanical Engineering. I obtained my BS in Microelectronics from Nankai University and my PhD in Mechanical Engineering from Rice University. Subsequently, I completed a postdoctoral research in the Department of Materials Science and Nanoengineering at Rice University before joining George Mason University. I am a recipient of the Franz and Frances Brotzen Fellowship Award. My current research interests include synthesis and applications of advanced materials in energy and water areas.

Current Projects

- Materials design and synthesis.
- Water treatment.
- Energy.
- Biosensor.