

# Volgenau School of Engineering



#### SELECT PUBLICATIONS

- Shi, C., et al. (2018). Precise gas discrimination with crossreactive graphene and metal oxide sensor arrays. Applied Physics Letters, 113(22), 222102.
- Ye, H., et al. (2018). Enhance the discrimination precision of graphene gas sensors with a hidden markov model. Analytical Chemistry, 90(22), 13790-13795.
- Khan, M. A. H., et al. (2019). Recent advances in electrochemical sensors for detecting toxic gases: NO2, SO2 and H2S. Sensors, 19(4), 905.
- Yuan, H. et al. (2018). A hierarchical vision-based localization of rotor unmanned aerial vehicles for autonomous landing. International Journal of Distributed Sensor Networks, 14(9).

# **Qiliang Li, PhD**

Professor, Electrical and Computer Engineering Virginia MicroElectronics Consortium Distinguished Professor

### Education

PhD, Electrical and Computer Engineering, North Carolina State University

#### **Key Interests**

Smart Sensor System | Chemical Sensors | Optical Sensors | Semiconductor | Nanoelectronics | Materials Science and Engineering | Nanowire | Graphene | Unmanned Aerial Vehicle | Memory Devices

#### CONTACT

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#### **Research Focus**

I design and fabricate sensors, integrate sensors into a smart sensor system to monitor the chemicals and pollution in the environment. In addition, my research focuses on self-powered, autonomous-driving monitoring platforms for aquatic ecosystems.

## **Current Projects**

- Topological insulator field effect transistors for memory and sensors (NSF research grant).
- Nanoengineered hybrid gas sensors for spacesuit monitoring.
- Graphene chemical sensors for precise discrimination.

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