

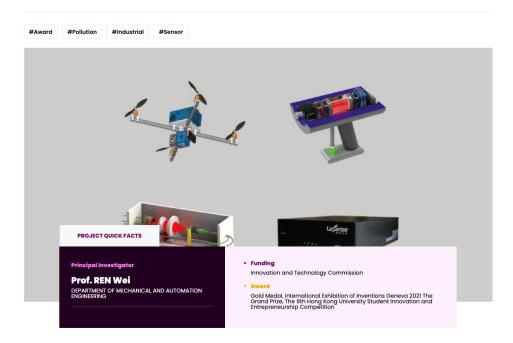


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High-Sensitive Gas Sensing and Control System



Industrial processes, such as thermal power generation and petrochemical production, involve emission of harmful gaseous chemicals and a growing number of companies are taking corporate environmental responsibility to take initiatives in monitoring, controlling and preventing pollutant emission. To enable timely and effective detection of gaseous pollutants in the industrial processes, we have developed a high-sensitive gas sensing and control system. It combining advanced laser spectroscopy technology (TDLAS and photoacoustic) and Al algorithm. The system provides the type, concentration, temperature and pressure of multiple gas components such as CO, NO $_{y}$, NH $_{3}$, SO $_{2}$ in a complex environment in real time. It also gives feedback to the control terminal through wireless

Our system provides:

- · Simultaneous detection of multiple target gases generated by thermal power plants, industrial boilers and oil companies
- Ultra-high sensitivity required in industrial processes (sub-ppb) • Real-time online sensing (response time < 3 s)
- because it explores the most fundamental of many gases

Project's High-Sensitive Gas Sensors

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