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Research Interest: Sensors (Gas, Humidity and Biosensors) development, Energy storage devices, Photodetector



Selected Publications

1. Investigation of electrochemical properties of coppersilicide nanowires for lithium battery application, **DewyaniPatil-Chaudhari**, Matthew Ombaba, Jin Yong Oh, and M. Saif Islam (*Under preparation*)
2. A simple growth technique for β -Ga₂O₃ and its application in solar blind photodetector, **DewyaniPatil-Chaudhari**, Matthew Ombaba, Jin Yong Oh, Kyle Montgomery, Andrew Lange, Subhash Mahajan, Jerry Woodall, and M. Saif Islam; (*Submitted to Appl. Phys. Lett.*)
3. NiO-decorated single-walled carbon nanotubes for high-performance nonenzymatic glucose sensing; Nguyen Quoc Dung, **DewyaniPatil**, Hyuck Jung, Jimin Kim, Dojin Kim; *Sens. Actuators B:Chemical* 183 (2013) 381.
4. A high-performance nonenzymatic glucose sensor made of CuO-SWCNT nanocomposites; Nguyen Quoc Dung, **DewyaniPatil**, Hyuck Jung, Dojin Kim; *Biosens. Bioelectron.* 42C (2012) 280.
5. Humidity sensing properties of poly(o-anisidine)/WO₃ composites; **DewyaniPatil**, You-KyongSeo, Young Kyu Hwang, Jong-San Chang, PradipPatil; *Sens. Actuators B: Chemical*, 128 (2008) 374.
6. Poly (o-anisidine) films on mild steel: Electrochemical synthesis and biosensor application; **DewyaniPatil**, A.B.Gaikwad, PradipPatil; *J. Phys. D: Appl. Phys.* 40 (2007) 255.