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Research Interest:

1. Gas sensor development, Testing, calibration and its application
Study, Microcontroller based portable gas detectors, security systems
2. Sensor Prototype, Sensor Packaging, Material synthesis
3. Embedded System Design and Development (PIC, ARM, AVR, 8051)

Conference Paper:

International Conference: (ISPTS-2, MAR-2015)

1. **Vipul Dhongade**, Pooja More, R. C. Aiyer, Salim F. Bamsaoud, "*FeCl₃-PdCl₂ doped SnO₂ Based Room Temperature*" **International Symposium on Physics and Technology of Sensor, Pune, March-2015, pp. 135.**
2. **Vipul Dhongade**, R. C. Aiyer, "*Development of Low Cost Handheld Embedded Prototype for Methane Gas Detection in Drainage Line*" **International Symposium on Physics and Technology of Sensor, Pune, March-2015, pp.141.**
3. Rohan Dhale, **Vipul Dhongade**, R. C Aiyer¹, "*Development Of Optical Fiber Based Chlorophyll And Anthocyanin Coated Carbon Dioxide Biosensor*", **International Symposium on Physics and Technology of Sensor, Pune, March-2015, pp.137.**
4. Pramod Kori, **Vipul Dhongade**, R.C.Aiyer, "*High Temperature Operable Low Humidity (10 to 20%RH) Sensor Using Spin Coated Tin Dioxide (SnO₂) Thin Film*" **International Symposium on Physics and Technology of Sensor, Pune, March-2015, pp.253.**
5. Pramod Kori, **Vipul Dhongade**, Pooja More, R.C.Aiyer, "*FeCl₃ doped SnO₂ Based room temperature Operable Methane Sensor*", **International Symposium on Physics and Technology of Sensor, Pune, March-2015, pp.273.**

6. Gauri S.Bhide, Sonia R.Jadhav, Omkar B.Pawar, Shobha A.Waghmode, **Vipul Dhongade** , Pramod Kori, Aiyer R.C2 , Sharada, P.Dagade *"Humidity Sensor Of Size Modified Cellulosic Natural Fiber"*, **International Symposium on Physics and Technology of Sensor, Pune, March-2015, pp.195.**

National Conference: (NSPTS-2, MAR-2014)

1. **Vipul Dhongade**, P. More, R. C. Aiyer , *"PdCl₂ Doped SnO₂ Based Room Temperature Highly Sensitive Operable Resistive Sensor for Volatile Organic Compounds"* **National Seminar on Physics and Technology of Sensor, Pune, March-2014.**
2. Shobha Waghmode*Pooja. More*Pooja Chavan, Dada Marale Atul Sanasa,**Vipul Dhongade**,R. C. Aiyer, *"Use of Human Blood Serum as Reducing and Stabilizing Agent for Synthesis of Silver Nanoparticles and Their Use as Ethanol Sensor"* **National Seminar on Physics and Technology of Sensor, Pune, March-2014.**