

## Author's publications

### Journal publications

1. AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT based high-sensitive NO<sub>2</sub> gas sensors.  
**Akhil Ranjan**, M. Agrawal, K. Radhakrishnan and N. Dharmarasu,  
Japanese Journal of Applied Physics (JJAP), 2019, 58 SCCD23

### Conference proceedings

1. Pt/AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT based ammonia gas sensors.  
**Akhil Ranjan**, M. Agrawal, K. Radhakrishnan and N. Dharmarasu,  
IEEE INEC 2019, Kuching, Malaysia

### Conference contributions

1. AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT based high-sensitive NO<sub>2</sub> gas sensors.  
**Akhil Ranjan**, M. Agrawal, K. Radhakrishnan and N. Dharmarasu,  
International workshop on Nitrides Semiconductors,  
Nov 12-16, 2018, Kanazawa, Japan
2. AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT based gas sensors for harsh environments.  
**Akhil Ranjan**, M. Agrawal, K. Radhakrishnan and N. Dharmarasu,  
ICMAT June 23-28, 2019, Singapore
3. Open-Gate AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT Based MSM Gas Sensor Grown on Si(111) by MOCVD.  
**Akhil Ranjan**, Y. Zheng, G. S. Karthikeyan, N. Dharmarasu, M. Agrawal and K. Radhakrishnan, ICMAT June 18-23, 2017, Singapore
4. Dislocation based conduction modulation in Ga<sub>N</sub> Schottky based MSM photodetectors grown on Si(111) by ammonia-molecular beam epitaxy.  
Ravikiran Lingaparathi, K. Radhakrishnan, Dharmarasu Nethaji, Manvi Agrawal, **Akhil Ranjan**, Zilong Wang, Annalisa Bruno, Cesare Soci, Lihuang Tng, Kian Siong Ang, ICEM July 4-8, 2016, Singapore