LIST OF PUBLICATIONS IN
INTERNATIONAL REFEREED JOURNALS

1. “Investigations on the origin of mass & elastic loading in the time varying
distinct response of ZnO SAW ammonia sensor”, V. Bhasker Raj, A. Theodore
Nimal, Yashoda Parmar, M. U. Sharma and Vinay Gupta, Sensors and Actuators

2. “ZnO Surface Acoustic Wave Sensor for the Orthogonal Detection of DMMP”,
V. Bhasker Raj, Monika Tomar, A. Theodore Nimal, Yashoda Parmar, M. U.

3. “Utilization of mass and elastic loading in oxide materials based SAW devices
for the detection of mustard gas simulant”, V. Bhasker Raj, A.T. Nimal,
Harpreet Singh, Monika Tomar, M.U. Sharma, Vinay Gupta, Advanced Materials

4. “Cross sensitivity and selectivity studies on ZnO surface acoustic wave ammonia
sensor”, V. Bhasker Raj, A. Theodore Nimal, Yashoda Parmar, M. U. Sharma
and Vinay Gupta, Sensors and Actuators B, vol.147, issue 2, page 517–524,
2010.

5. “Oxide thin films (ZnO, TeO\textsubscript{2}, SnO\textsubscript{2}, and TiO\textsubscript{2}) based SAW E-Nose for the
detection of chemical warfare agents”, V. Bhasker Raj, A. Theodore Nimal,
Harpreet Singh, M. U. Sharma and Vinay Gupta, revised manuscript submitted to
Sensors and Actuators B.

6. “Effect of metal oxide sensing layers on the distinct detection of ammonia using
Surface Acoustic Wave (SAW) sensors”, V. Bhasker Raj, Harpreet Singh, A.
Theodore Nimal, Monika Tomar, M. U. Sharma and Vinay Gupta, communicated
to Sensors and Actuators B.

Multi-sensor array”, Manu Gupta, A. K. Singh, V. Bhasker Raj, Harpreet Singh,
Upendra Mittal, A.T. Nimal, M.U. Sharma, communicated to IEEE sensors.
Publications in National Journals/Conference Proceedings


International/National Conferences/Symposia

1. Presented a poster entitled “Multi-sensor array employing PCA and ANN for the detection of Chemical Warfare (CW) Agents” in an international conference on computing, communication and information technology (ICCCIT-2012), held at Thiruninravur, Tamil Nadu from 27th – 29th June 2012.

2. Presented a poster entitled “Efficient detection of ammonia using SAW devices coated with oxide sensing layers” in an international meeting on chemical sensors (IMCS-2012), held at Nuremberg, Germany from 20th May to 23rd May 2012.

3. Delivered an oral presentation on “Utilization of mass and elastic loading in oxide materials based SAW devices for the detection of chemical warfare agents”, in an international conference entitled “International conference and workshop on Nanostructured ceramics and other Nanomaterials (ICWNCN-2012)”, held at University of Delhi, from 13 to 16 March 2012.

4. Delivered an oral presentation on “Utilization of mass and elastic loading in oxide materials based SAW devices for the detection of mustard gas simulant” in an international conference entitled “International conference on key engineering materials (ICKEM-2012)” held at Singapore from 26 to 28 February 2012.


7. Presented a poster entitled “Room temperature detection of DMMP (simulant of Sarin) by ZnO SAW sensor”, in an international conference entitled “MRS Fall Meeting & Exhibit - 2011” held at Boston, MA, USA from 28\textsuperscript{th} Nov. to 2\textsuperscript{nd} Dec. 2011.

8. Presented a poster entitled “ZnO Surface Acoustic Wave sensor for the orthogonal detection of DMMP”, in an international conference entitled “International Conference on Materials for Advanced Technology (ICMAT-2011)” held at Suntec, Singapore from 26\textsuperscript{th} June to 1\textsuperscript{st} July 2011.

9. Delivered an oral presentation on “Orthogonal detection of ammonia using ZnO based surface acoustic wave ammonia sensor” in “16\textsuperscript{th} national seminar on physics and technology of sensors (NSPTS-2011)” held at Lucknow from 11 to 13 February 2011.

10. Presented a poster entitled “Optimization of TeO\textsubscript{2} film thickness for temperature stable LiNbO\textsubscript{3} SAW devices” in a Mini-Colloquia on “Compact Modeling of advance MOSFET structures and mixed mode applications”, Delhi Univ. South Campus, N. Delhi, organized by IEEE-EDS Delhi, 5-6 Jan. 2008.