

PUBLICATIONS

JOURNAL PAPERS:

1. A.S.G. Reddy, J.T. Wabeke, **B.B. Narakathu**, B.J. Bazuin, M.K. Joyce, S.O. Obare, M.Z. Atashbar, "A screen printed flexible electrochemical sensor for selective detection of toxic lead ions", *Sensors and Actuators B: Chemical*, (*Submitted*).
2. **B.B. Narakathu**, A.S.G. Reddy, A. Eshkeiti, S. Emamian, M.Z. Atashbar, "Development of a microfluidic sensing platform by integrating PCB technology and inkjet printing process", *IEEE Sensors Journal*, vol. 15(11), pp. 6374 - 6380, 2014.
3. Z. Ramshani, A.S.G. Reddy, **B.B. Narakathu**, M.Z. Atashbar, "SH-SAW sensor based microfluidic system for the detection of heavy metal compounds in liquid environments", *Sensors and Actuators B: Chemical*, vol. 217(1), pp. 72-77, 2014.
4. S. Emamian, A. Eshkeiti, A.S.G. Reddy, **B.B. Narakathu**, M.Z. Atashbar, "Gravure printed flexible surface enhanced Raman spectroscopy (SERS) substrate for detection of 2,4-dinitrotoluene (DNT) vapor", *Sensors and Actuators B: Chemical*, vol. 217(1), pp. 129-135, 2014.
5. A. Eshkeiti, A.S.G. Reddy, S. Emamian, **B.B. Narakathu**, M. Joyce, M.K. Joyce, P.D. Fleming, B.J. Bazuin, M.Z. Atashbar, "Screen printing of multi-layered hybrid printed circuit boards (PCB) on different substrates", *IEEE Transactions on Device and Materials Reliability*, vol. 5(3), pp. 415-421, 2015.
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8. A. Eshkeiti, **B.B. Narakathu**, A.S.G. Reddy, A. Moorthi, M.Z. Atashbar, "Detection of toxic heavy metals using A novel inkjet printed surface enhanced Raman spectroscopy (SERS) substrate", *Sensors and Actuators B: Chemical*, vol. 171-172, pp. 705-711, 2012.
9. **B.B. Narakathu**, W. Guo, S.O. Obare, M.Z. Atashbar, "Novel approach for detection of toxic organophosphorus compounds", *Sensors and Actuators B: Chemical*, vol. 158, pp. 69-74, 2011.
10. **B.B. Narakathu**, B.E. Bejcek, M.Z. Atashbar, "Pico mole level detection of toxic biochemical species using impedance based electrochemical biosensors", *Sensor Letters*, vol. 9, pp. 872-875, 2011.
11. **B.B. Narakathu**, W. Guo, S.O. Obare, M.Z. Atashbar, "Detection of picomolar levels of toxic organophosphorus compounds by electrochemical and fluorescence spectroscopy", *Sensor Letters*, vol. 9, pp. 907-909, 2011.
12. A.S.G. Reddy, **B.B. Narakathu**, M.Z. Atashbar, M. Rebros, E. Hrehorova, B.J. Bazuin, M.K. Joyce, P.D. Fleming, A. Pekarovicova, "Printed capacitive based humidity sensors on flexible substrates", *Sensor Letters*, vol. 9, pp. 869-871, 2011.
13. **B.B. Narakathu**, B.E. Bejcek, M.Z. Atashbar, "Improved detection limits of toxic biochemical species based on impedance measurements in electrochemical biosensors", *Biosensors and Bioelectronics*, vol. 26, pp. 923-928, 2010.

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14. **B.B. Narakathu**, A.S.G. Reddy, D. Maddipatla, S. Emamian, A. Eshkeiti, A.A. Chlaihawi, B.J. Bazuin, M.Z. Atashbar, "Rapid prototyping of a flexible microfluidic sensing system using inkjet and screen printing processes", 14th IEEE Sensors Conference, November 1-4, Busan, South Korea, 2015 (*Accepted*).
15. S.G.R. Avuthu, J.T. Wabeke, **B.B. Narakathu**, D. Maddipatla, S. Emamian, A. Eshkeiti, A.A. Chlaihawi, M.K. Joyce, S.O. Obare, M.Z. Atashbar, "Development of screen printed electrochemical sensors for selective detection of heavy metals", 14th IEEE Sensors Conference, November 1-4, Busan, South Korea, 2015 (*Accepted*).
16. A.A. Chlaihawi, **B.B. Narakathu**, S. Emamian, A. Eshkeiti, S.G.R. Avuthu, B.J. Bazuin, M.Z. Atashbar, "Development of flexible dry ECG electrodes based on MWCNT/PDMS composite", 14th IEEE Sensors Conference, November 1-4, Busan, South Korea, 2015 (*Accepted*).
17. S.G.R. Avuthu, J.T. Wabeke, **B.B. Narakathu**, D. Maddipatla, S. Emamian, A. Eshkeiti, A.A. Chlaihawi, B.J. Bazuin, S.O. Obare, M.Z. Atashbar, "Detection of heavy metal ions using screen printed wireless LC sensor", 14th IEEE Sensors Conference, November 1-4, Busan, South Korea, 2015 (*Accepted*).
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19. S. Emamian, S.G.R. Avuthu, **B.B. Narakathu**, A. Eshkeiti, A.A. Chlaihawi, B.J. Bazuin, M.Z. Atashbar, "Fully printed and flexible piezoelectric based touch sensitive skin", 14th IEEE Sensors Conference, November 1-4, Busan, South Korea, 2015 (*Accepted*).
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21. A.A. Chlaihawi, **B.B. Narakathu**, A. Eshkeiti, S. Emamian, A.S.G. Reddy, M.Z. Atashbar, "Screen printed MWCNT/PDMS based dry electrode sensor for electrocardiogram (ECG) measurements", IEEE International Conference on Electro/Information Technology (EIT), May 21-23, Dekalb, Illinois, USA, 2015 (*Accepted*).
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32. A.S.G. Reddy, **B.B. Narakathu**, A. Eshkeiti, S. Emamian, B.J. Bazuin, M.K. Joyce, M.Z. Atashbar, "All screen printed circular electrodes as electrochemical sensors", 15th International Meeting on Chemical Sensors (IMCS), March 16-19, Beunos Aires, Argentina, pp. 98, 2014.
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43. Z. Ramshani, **B.B. Narakathu**, A.S.G. Reddy, M.Z. Atashbar, "Investigation of SH-SAW sensors for toxic heavy metal detection", 12th IEEE Sensors Conference, November 3-6, Baltimore, Maryland, USA, pp. 1-4, 2013.
44. A. Eshkeiti, M. Rezaei, **B.B. Narakathu**, A.S.G. Reddy, M.Z. Atashbar, "Gravure printed paper based substrate for detection of heavy metals using surface enhanced Raman spectroscopy (SERS)", 12th IEEE Sensors Conference, November 3-6, Baltimore, Maryland, USA, pp. 1-4, 2013.
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