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Research Publications

International journal	National journal	International conferences	National conferences	Total Number of publications
05	0	05	07	17

List of Research Publications

International:

1. **Chandrakant K. Tagad**, Kishor S. Rajdeo, Atul Kulkarni, Pooja More, R. C. Aiyer and Sushma Sabharwal, *"Green synthesis of polysaccharide stabilized gold nanoparticles: chemo catalytic and room temperature operable vapor sensing application"*, **RSC Advances, 2014, 4 (46), 24014-24019. DOI:** http://dx.doi.org/10.1039/C4RA02972K

2. **Chandrakant K. Tagad**, Hyeong U. Kim, R. C. Aiyer, Pooja More, Taesung Kim, Sang Hyun Moh, Atul Kulkarni and Sushma G. Sabharwal, *"A sensitive hydrogen peroxide optical sensor based on polysaccharide stabilized silver nanoparticles",* **RSC Advances** , 2013,3 (45), 22940-22943 **doi.** 10.1039/C3RA44547J

3. **Chandrakant K. Tagad**, Sreekantha Reddy Dugasani, Rohini Aiyer, Sungha Park, Atul Kulkarni, Sushma Sabharwal, *"Green synthesis of silver nanoparticles and their application for the development of optical fiber based hydrogen peroxide sensor",* **Sensors and Actuators B** 183 (2013) 144– 149 **doi.** http://dx.doi.org/10.1016/j.snb.2013.03.106

4. **Chandrakant Tagad**, Piyush Brahmankar, R. C. Aiyer, Sushma Sabharwal, *"Macrotyloma uniflorum proteins as humidity sensing material"*, IEEE Proceedings ISPTS-1*, 2012,* pp. 232-

235. **ISBN** 978-1-4673-1043-7**. doi.** 10.1109/ISPTS.2012.6260933

5. Nimbalkar, Sneha, **Chandrakant K. Tagad**, Sushma G. Sabharwal, Ameeta Ravikumar, Suresh Gosavi, Taesung Kim, Smita Zinjarde, and Atul Kulkarni. *"Optical Detection of Melamine in Raw Milk."* **Sensor Letters,** 2014, 12 (11), 1633-1636.
DOI: http://dx.doi.org/10.1166/sl.2014.3375

Papers in Proceedings of International Conferences:

1. **Chandrakant Tagad**, Swati kulkarni, R. C. Aiyer, Atul Kulkarni, Sushma Sabharwal, *"Polysaccharide stabilized silver nanoparticle based fiber optic hydrogen peroxide sensor",* International conference on Emerging Trends: Micro to Nano, Feb. 22~23, 2013, Goa, India

2. **Chandrakant Tagad**, Sreekantha Dugasani, Rohini Aiyer, Sungha Park, Atul Kulkarni, Sushma Sabharwal, *"Green synthesis of silver nanoparticles by using polysaccharide",* The 10th NanoKorea symposium, August 10~18, 2012, Seoul South Korea.

3. **Chandrakant Tagad**, Piyush Brahmankar, R. C. Aiyer, Sushma Sabharwal, "*Macrotyloma uniflorum* proteins as humidity sensing material", International Symposium on Physics and Technology of Sensors (ISPTS-1), pp. 232-235. March 8 ~10, 2012, Pune.

4. **Chandrakant K. Tagad**, R. C. Aiyer, Sushma G. Sabharwal, *"Detection of acid phosphatase activity using ATP conferred protection of AgNPs against salt induced aggregation"* 2nd International Symposium on Physics *and Technology of Sensors (ISPTS-2),* March 8 ~10, 2015, Pune.

5. Swati kulkarni, **Chandrakant Tagad**, Sushma Sabharwal, R. C. Aiyer, Atul Kulkarni, *"Photo conducting properties of silver nanoparticles synthesized with green chemistry approach"*, International conference on Emerging Trends: Micro to Nano, Feb. 22~23, 2013, Goa, India

Papers in proceedings of National Conferences

1. **Chandrakant Tagad**, Swati Kulkarni, Rohini Aiyer, Atul Kulkarni, Sushma Sabharwal, *"Acid Phosphatase Inhibition based Fiber Optic Sensor for Detection of Heavy Metals"*, National seminar on physics and technology of sensors, 11~13 March, 2013, New Delhi.

2. **Chandrakant Tagad**, Swati Kulkarni, Rohini Aiyer, Atul Kulkarni, Sushma Sabharwal, *"Development of Electrochemical Biosensor based on Acid Phosphatase Immobilized on AgNP/LBG/Gelatin Nanocomposite"*, National seminar on physics and technology of sensors, 11~13 March, 2013, New Delhi.

3. **Chandrakant Tagad**, Sushma G. Sabharwal, *"Biochemical Studies on Acid phosphatase from the seeds of Macrotyloma uniflorum",* National Conference on Frontiers in Physical, Chemical and Biological Sciences, 4~6 Oct, 2013. Pune. **ISSN-2322-5997.**

4. **Chandrakant K. Tagad**, Rahul Dhekane, Snehal Sathe, R. C. Aiyer, Pooja More, Sushma Sabharwal, "*Humidity sensor using AgNPs-LBG nanocomposite"*, National seminar on physics and technology of sensors, 6~8 March, 2014, Baramati, Pune. **ISBN 978-81-924850-1-0**

5. **Chandrakant K. Tagad**, Kishor S. Rajdeo, R. C. Aiyer, Pooja More, Atul Kulkarni, Sushma Sabharwal, *"Green synthesis of Gold Nanoparticles and their application for enhanced VOC sensing of SnO_2 thin films at room temperature"*, National seminar on physics and technology of sensors, 6~8 March, 2014, Baramati, Pune. **ISBN 978-81-924850-1-0**

6. **Chandrakant K. Tagad**, Rahul Dhekane, Snehal Sathe, R. C. Aiyer, Pooja More, Atul Kulkarni, Sushma Sabharwal , *"Polysaccharide stabilized silver nanoparticles based Hg^{2+} Selective sensor",* National seminar on physics and technology of sensors, 6~8 March, 2014, Baramati, Pune. **ISBN 978-81-924850-1-0**

7. Swati Kulkarni, **Chandrakant Tagad**, Neha Gharge, Rohini Aiyer, Atul Kulkarni, *"Effect of VOCs on CR-39 films by fiber optic reflectance method"*, National seminar on physics and technology of sensors, 11~13 March, 2013, New Delhi.