

## Publications in Peer Reviewed Journals

### 2021

1. Synthesis and fabrication of 2D Tungsten trioxide nanosheets based platform for impedimetric sensing of cardiac biomarker, D Sandil, **Saurabh Srivastava**, R Khatri, K Sharma, NK Puri, *Sensing and Bio-Sensing Research* 32 (2021), 100423

### 2019

2. Electrochemical hydrogen gas sensing employing palladium oxide/reduced graphene oxide (PdO-rGO) nanocomposites, K Arora, **Saurabh Srivastava**, PR Solanki, NK Puri, *IEEE Sensors Journal* 19 (2019), 8262-8271
3. Electrochemical paper based cancer biosensor using iron oxide nanoparticles decorated PEDOT:PSS, S. Kumar, M. Umar, A. Saifi, S. Kumar, S. Augustine, **Saurabh Srivastava\***, and B.D. Malhotra\*, Available online 8 January 2019, *Analytica Chimica Acta* (Impact factor: 5.1) (SCI).
4. Prospects of paper-based microfluidics in heavy metal ion detection using nanomaterials, A. Saifi, R.K. Chaudhari, **Saurabh Srivastava\*** Accepted for publication, Nov 2018, *Sensor Letters* (Scopus indexed).

### 2018

5. Biofunctionalized tungsten trioxide-reduced graphene oxide nanocomposites for sensitive electrochemical immunosensing of cardiac biomarker, D. Sandil, **Saurabh Srivastava**, B.D. Malhotra, S.C. Sharma, N.K. Puri, *Journal of Alloys and Compounds*, 763, 102-110 (2018) (Impact factor: 3.133) (SCI)

### 2017

6. Biofunctionalized nanostructured tungsten trioxide based sensor for cardiac biomarker detection, D. Sandil, S. Kumar, K. Arora, **Saurabh Srivastava\***, B.D. Malhotra\*, S.C. Sharma, N.K. Puri\*, *Materials Letters*, 186, 2017, 202-205 (Impact factor: 2.4) (SCI)
7. Graphene oxide–metal nanocomposites for cancer biomarker detection, Md. A. Ali, C. Singh, **Saurabh Srivastava**, P. Admane, V. V. Agrawal, G. Sumana, R. John, A. Panda, L. Dong, and B. D. Malhotra, *RSC Advances*, 7, 2017, 35982-35991 (Impact factor: 3.28) (SCI expanded).

### 2016

8. Antibody conjugated metal nanoparticle decorated graphene sheets for a mycotoxin sensor, **Saurabh Srivastava**, V. Kumar, K. Arora, C. Singh, Md. A. Ali, N. K. Puri and B. D. Malhotra, *RSC Advances*, 6, 2016, 56518-56526 (Impact factor: 3.28) (SCI expanded).
9. Effect of low pressure hydrogen environment on crystallographic properties of PdO nanoparticles, K. Arora, D. Sandil, G. Sharma, **Saurabh Srivastava**, N. K. Puri, *International Journal of Hydrogen Energy*, 47, 2016, 22155–22161 (Impact factor: 3.5) (SCI)
10. Highly sensitive protein functionalized nanostructured hafnium oxide based biosensing platform for non-invasive oral cancer detection, S. Kumar, S. Kumar, S. Tiwari, S. Augustine, **Saurabh Srivastava**, B. K. Yadav, B. D. Malhotra, *Sens. Actuators B*, 235, 2016, 1-10 (Impact factor: 4.75) (SCI)
11. Electrospun functional micro/nanochannels embedded in porous carbon electrodes for microfluidic biosensing, Mondal, K., Ali, M. A., **Srivastava, S.**, Malhotra, B. D., & Sharma, A. *Sensors and Actuators B: Chemical* 229, 2016, 82-91 (Impact factor: 4.75) (SCI)
12. Mesoporous few-layer graphene platform for affinity biosensing application, Ali, M. A., Singh, C., Mondal, K., **Srivastava, S.**, Sharma, A., & Malhotra, B. D., *ACS applied materials & interfaces*, 8(12), 2016, 7646-7656 (Impact factor: 7.1) (SCI)

13. A biofunctionalized quantum dot–nickel oxide nanorod based smart platform for lipid detection, Ali, M. A., **Srivastava, S.**, Agrawal, V. V., Willander, M., John, R., & Malhotra, B. D., *Journal of Materials Chemistry B*, 4(15), 2016, 2706-2714 (SCI)

## 2015

14. Protein conjugated carboxylated gold@ reduced graphene oxide for aflatoxin B1 detection, **Saurabh Srivastava**, S. Abraham, C. Singh, Md A. Ali, A. Srivastava, G. Sumana, and Bansi D. Malhotra. *RSC Adv.* 5, 2015, 5406-5414 (Impact factor: 3.28) (SCI expanded)
15. Reduced graphene oxide modified smart conducting paper for cancer biosensor, S. Kumar, S. Kumar, **Saurabh Srivastava**, B.K. Yadav, S.H. Lee, J.G. Sharma, D.C. Doval, B.D. Malhotra, *Biosens Bioelectron*, 73, 2015, 114-122 (Impact factor: 7.47) (SCI)
16. Protein Functionalized Carbon Nanotubes-based Smart Lab-on-a-Chip, Md. A. Ali, P.R. Solanki, **Saurabh Srivastava**, S. Singh, V. V. Agrawal, R. John, and B.D. Malhotra, *ACS Appl. Mater. Interfaces*, 7, 2015, 5837–5846 (Impact factor: 7.1) (SCI)
17. Tyrosinase conjugated reduced graphene oxide based biointerface for bisphenol A sensor, K.K. Reza, Md. A. Ali, **Saurabh Srivastava**, V.V. Agrawal, A.M. Biradar, *Biosens Bioelectron*, 74, 2015, 644-651 (Impact factor: 7.47) (SCI)
18. Mediator-free biosensor using chitosan capped CdS quantum dots for detection of total cholesterol, H. Dhyani, Md A. Ali, S. P. Pal, **Saurabh Srivastava**, P. R. Solanki, B.D. Malhotra, P. Sen, *RSC Advances*, 5, 2015, 45928-45934 (Impact factor: 3.28) (SCI expanded)
19. Biofunctionalized Nanostructured Zirconia for Biomedical Application: A Smart Approach for Oral Cancer Detection, S. Kumar , S. Kumar , S. Tiwari , **Saurabh Srivastava**, M. Srivastava , B.K. Yadav, S. Kumar , T.T. Tran, A. K. Dewan , A. Mulchandani , J.G. Sharma , S. Maji and B.D. Malhotra, *Advanced Science*, 2, 2015, 1500048 (Impact factor: 6) (SCI expanded).

## 2014

20. Graphene oxide based biosensor for food toxin detection, **Saurabh Srivastava**, Md. A. Ali, S. Umrao, U. Parashar, A. Srivastava, G. Sumana, S. S. Pandey, S. Hayase, B. D. Malhotra, *Applied Biochemistry and Biotechnology*, 174, 2014, 960-970 (Impact factor: 1.6) (SCI)
21. A surface functionalized nanopore titania integrated microfluidic biochip, Md. A. Ali, **Saurabh Srivastava**, K. Mondal, P. M. Chavhan, V. V. Agrawal, R. John, A. Sharma and Bansi D. Malhotra, *Nanoscale*, 6, 2014, 13958-13969 (Impact factor: 7.76) (SCI)
22. Reduced graphene oxide–titania based platform for label-free biosensor, P. R. Solanki, **Saurabh Srivastava**, Md. A. Ali, R. K. Srivastava, A. Srivastava and B. D. Malhotra, *RSC Adv.* 4, 2014, 60386–60396 (Impact factor: 3.28) (SCI expanded).
23. Chitosan-modified carbon nanotubes-based platform for low-density lipoprotein detection, Md. A. Ali, N. Singh, **Saurabh Srivastava**, V. V. Agrawal, R. John, M. Onoda, and Bansi D. Malhotra. *Applied biochemistry and biotechnology*, 174, 2014, 926-935 (Impact factor: 1.6) (SCI)
24. Nanomaterials Based Biosensors for Food Toxin Detection, B. D. Malhotra, **Saurabh Srivastava**, Md. A. Ali, C. Singh, *Applied Biochemistry and Biotechnology*, 174, 2014, 880-896 (Impact factor: 1.6) (SCI)
25. Protein–conjugated quantum dots interface: Binding kinetics and label-free lipid detection, Md. A. Ali\*, **Saurabh Srivastava\***, M. K. Pandey, V. V. Agrawal, R. John and B. D. Malhotra, *Analytical Chemistry*, 86, 2014, 1710–1718 (Impact factor: 5.88) (\*Equal contribution) (SCI)
26. Nanostructured palladium-reduced graphene oxide platform for high sensitive, label free detection of a cancer biomarker, V. Kumar, **Saurabh Srivastava**, S. Umrao, R. Kumar, G. Nath, G. Sumana, P. S. Saxena, A. Srivastava, *RSC Advances*, 4, 2014, 2267-2273 (Impact factor: 3.28) (SCI expanded).
27. Biofunctionalized carbon nanotubes platform for biomedical applications, K. K. Reza, **Saurabh Srivastava**, S. K. Yadav and A. M. Biradar, *Materials Letters*, 126, 2014, 126-130 (Impact factor: 2.4) (SCI)

28. Lipid–lipid interactions in aminated reduced graphene oxide interface for biosensing application, Md. A. Ali, K. Reza, **Saurabh Srivastava**, V. V. Agrawal, R. John and B. D. Malhotra, *Langmuir*, 30, 2014, 4192–4201 (Impact factor: 3.99) (SCI)
29. Mesoporous silica particle embedded functional graphene oxide as an efficient platform for urea biosensing, S. Abraham, V. Ciobota, **Saurabh Srivastava**, S. K. Srivastava, R. K. Singh, J. Dellith, B.D. Malhotra, M. Schmitt, J. Popp and A. Srivastava, *Analytical Methods*, 6, 2014, 6711-6720 (Impact factor:1.9) (SCI expanded).

### 2013

30. Electrophoretically deposited reduced graphene oxide platform for food toxin detection, **Saurabh Srivastava**, V. Kumar, Md. A. Ali, P. R. Solanki, A. Srivastava, G. Sumana, P. S. Saxena, A. G. Joshi, B. D. Malhotra, *Nanoscale*, 5, 2013, 3043-51 (Impact factor: 7.76) (SCI)
31. Mediator-free microfluidics biosensor based on titania–zirconia nanocomposite for urea detection, **Saurabh Srivastava**, Md. A. Ali , P. R. Solanki, P. M. Chavhan, M. K. Pandey, A. Mulchandani, A. Srivastava, B. D. Malhotra, *RSC Advances*, 3, 2013, 228-235 (Impact factor: 3.28) (SCI expanded).
32. Carboxylated multiwalled carbon nanotubes based biosensor for aflatoxin detection, **Saurabh Srivastava**, C. Singh, Md. A. Ali, T. K. Gupta, G. Sumana, A. Srivastava, R. B. Mathur and B. D. Malhotra, *Sensors & Actuators B*, 185, 2013, 258–264 (Impact factor: 4.75) (\*Equal contribution) (SCI)
33. Highly efficient bienzyme functionalized nanocomposite-based microfluidics biosensor platform for biomedical application, Md. A. Ali, **Saurabh Srivastava**, P. R. Solanki, V. Reddy, V. V. Agrawal, C. G. Kim, R. John and B. D. Malhotra, *Scientific Reports*, 3, 2013, 2661 (Impact factor: 5.2) (SCI)
34. Magnesium oxide grafted carbon nanotubes based impedimetric genosensor for biomedical application, M. K. Patel, Md. A. Ali, **Saurabh Srivastava**, V.V. Agrawal, S. G. Ansari and B. D. Malhotra, *Biosensors and Bioelectronics*, 50, 2013, 406–413 (Impact factor: 7.47) (SCI)

### 2012

35. Functionalized multilayered graphene platform for urea sensor, R.K. Srivastava, **Saurabh Srivastava**, T.N. Narayanan, B. D. Malhotra, R. Vajtai, P. M. Ajayan, A. Srivastava, *ACS Nano*, 6, 2012, 168-175 (Impact factor: 13.33) (SCI)
36. Nanostructured anatase-titanium dioxide based platform for application to microfluidics cholesterol biosensor, Md. A. Ali, **Saurabh Srivastava**, P. R. Solanki, V. V. Agrawal, R. John, B. D. Malhotra, *Applied Physics Letters*, 101, 2012, 084105 (Impact factor: 3.14) (SCI)

### 2011

37. A self assembled monolayer based microfluidic sensor for urea detection, **Saurabh Srivastava**, P. R. Solanki, A. Kaushik, Md. A. Ali, A. Srivastava, B. D. Malhotra, *Nanoscale*, 3, 2011, 2971-2977 (Impact factor: 7.76) (SCI)

### 2010

38. A novel urea biosensor based on zirconia, G. Sumana, M. Das, **Saurabh Srivastava** and B. D. Malhotra, *Thin Solid Films*, 519, 2010, 1187–1191 (Impact factor: 1.76) (SCI)

### Conference Papers

1. Fabrication of nanocrystalline CdS electrode via chemical bath deposition technique for application to cholesterol sensor, H. Dhyani, **Saurabh Srivastava**, A. Ali, B.D. Malhotra and P. Sen, *Journal of Physics: Conference Series*, 358, 2012, 012008
2. Biosensors for food toxin detection: carbon nanotubes and graphene, B.D. Malhotra, **Saurabh Srivastava**, S. Augustine, Mater. Res. Soc. Symp. Proc., 1725, 2015, DOI: 10 . 155.7/opl. 2015 165
3. Biosensors for food toxin detection: Carbon nanotubes and graphene, BD Malhotra, **Saurabh Srivastava**, S Augustine, MRS Online Proceedings Library (OPL) 1725 (2015)