- **List of papers in SCI journals :**

1. "Reduced graphene oxide (rGO) decorated Cr (III) dopant induced hexagonal WO_3 nanocomposite sensor for enhanced ppm-level acetone detection at room temperature: A trendsetter towards non-invasive diabetes diagnosis, Sovandeb Sen, **Susmita Kundu***, Microchemical Journal, 212 (2025) 113385. **(I.F.-4.9).**

2. Bio-waste derived reduced graphene oxide (rGO) decorated Cr (III) doped α-Fe_2O_3 nanocomposite for selective ppm-level acetone sensing at room temperature: Potential approach towards non-invasive diagnosis of diabetic biomarker, Sovandeb Sen, **Susmita Kundu*,** Advanced Composites and Hybrid Materials. 8 (2025) 150. **(I.F. - 23.2).**

3. Enhanced Performance Based on the Synergistic Effect of Three-Phase Nanaocomposite-rGO-ZnO Nanowires Embedded in the PVDF Matrix as a power Source for Low-Powered Portable Electronic Devices, Pounomi Bera**,** Sovandeb Sen, **Susmita Kundu**, Shrabanee Sen*, ACS Applied Energy Materials, 24(2024)11834. **(I.F.-5.5).**

4. Robust Dual-ColorElectrochromism of Vanadium Oxide Nanorods Embedded on Reduced Graphene Oxide: Unraveling the Mechanism, Saheli Bhattacharjee, Sovandeb Sen, **Susmita Kundu*,** Journal of the Electrochemical Society, 171 (2024) 093504. **(I.F.-3.2).**

5. Sovandeb Sen, Sourav Maity, **Susmita Kundu***, "Reduced graphene oxide (rGO) decorated NiO-SnO_2 nanocomposite based sensor towards room temperature diabetic biomarker detection", Journal of Alloys and Compounds, 966 (2023) 171553. (**I.F.-6.3)**

6. Saheli Bhattacharjee, Sovandeb Sen, Soumya Samanta, **Susmita Kundu*, "**Study the role of rGO in enhancing the electrochromic performance of WO_3 film", Electrochimica Acta, 427 (2022) 140820. **(I.F.-7.3)**

7. Saheli Bhattacharjee, Sovandeb Sen**, Susmita Kundu***, "Development of La-impregnated TiO_2 based ethanol sensors for next generation automobile application", Journal of Materials Science: Materials in Electronics, 33(2022)15296-15312. **(I.F.-2.5)**

8. Sovandeb Sen, Sourav Maity and **Susmita Kundu*** , "Fabrication of Fe doped reduced graphene oxide (rGO) decorated WO_3 based low temperature ppm level acetone sensor: Unveiling sensing mechanism by impedance spectroscopy", Sensors and Actuators B, 361 (2022) 131706 **(I.F.-9.2)**

9. Sovandeb Sen, **Susmita Kundu*** **, "**Reduced graphene oxide (rGO) decorated ZnO-SnO_2: A ternary nanocomposite towards improved low concentration VOC sensing performance", Journal of Alloys and Compounds, 881 (2021) 160406 **(I.F.-6.4)**

10. Sovandeb Sen, Amit Nilabh, and **Susmita Kundu*, Room temperature acetone sensing performance of Pt/Sb_2O_3 impregnated Fe_2O_3 thin film: Noninvasive diabetes detection,** Microchemical Journal, 165 (2021) 106111**, (I.F.-3.5)**

11. **Susmita Kundu**,_Amit Kumar, Sovandeb Sen, Amit Nilabh, Biosynthesis of SnO_2 and comparison of its CO sensing performance with conventional process, Journal of Alloys and Compounds, 818 (2020) Article: 152841 **(I.F.- 6.4)**

12. Amit Nilabh, Sovandeb Sen, Mousumi Narjinary, **Susmita Kundu**, "A novel ppm level ethanol sensor based on La loaded ITO impregnated with Pd and Sb additives", Microchemical Journal, 158 (2020) 105146 **(I.F.-3.5)**

13. Dewan S. Rahman , Sudip Kumar Pal , Shibshankar Singha , **Susmita Kundu** , Soumen Basu and Sujit Kumar Ghosh, Spectral characteristics upon harvesting plasmonic hot electrons at the Ag/ZnO hetero microstructures, Materials advances, 1 (2020) 2897-2907 **(I.F.-5.2)**

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