

LIST OF PUBLICATION

- 1) Enhanced ammonia sensing performance of barium hexaferrite enabled through Zn doping: Mechanistic study considering modulation of Fe²⁺/Fe³⁺ ratio and oxygen vacancy, T Das, S Mojumder, D Saha, **M Pal***. *Sensors and Actuators B: Chemical* 406, 135358, 2024
- 2) Development of highly sensitive and selective trace acetone sensor using perovskite yttrium ferrite: Mechanism, kinetics and phase dependence study, S Mojumder, T Das, M Mukherjee, D Saha, A Datta, **M Pal***. *Chemical Engineering Journal* 477, 146855, 2023
- 3) Improved Ethanol Sensing Performance of α -MnO₂ Nanorods at Room Temperature Enabled through PPy Embedding, M Adhikari, D Saha, D Chattopadhyay, **M Pal*** *Langmuir* 39 (34), 12248-12259, 2023
- 4) Beneficial effect of Pd and MWCNT co-loading in SnO₂ nanoparticles towards the low temperature detection of n-butane gas: synergistic effect on sensing performance, P Rana, M Narjinary, A Sen, **M Pal***. *Sensors & Diagnostics* 2 (4), 909-917, 2023
- 5) Facile and Green Synthesis of Novel Fluorescent Carbon Quantum Dots and Their Silver Heterostructure: An In Vitro Anticancer Activity and Imaging on Colorectal, S Mishra, K Das, S Chatterjee, P Sahoo, S Kundu, **M Pal***, A Bhaumik, *ACS omega* 8 (5), 4566-4577, 2023
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- 10) Beneficial effect of Sn doping on bismuth ferrite nanoparticle-based sensor for enhanced and highly selective detection of trace formaldehyde, T Das, S Mojumder, S Chakraborty, D Saha, **M Pal*** *Applied Surface Science* 602 (2022) 154340

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- 12) White light phosphorescence from ZnO nanoparticles for white LED applications, S Das, UK Ghorai, R Dey, CK Ghosh, **M Pal*** *New Journal of Chemistry* **46** (2022) 17585
- 13) Enhanced blue photoluminescence of cobalt-reduced graphene oxide hybrid material and observation of rare plasmonic response by tailoring morphology, N Singh, JR Ansari, **M Pal**, A Das, D Sen, D Chattopadhyay, A Datta
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- 14) Effect of annealing on the defect mediated blue phosphorescence in ZnO nanocrystals, Sagnik. Das, Uttam Kumar Ghorai, Rajib Dey, Chandan Kumar Ghosh and **Mrinal Pal***. *RSC. Adv.*, **11** (2021) 335
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