

ANNEXURE - I

LIST OF PUBLICATION

- 1) Ethanol Sensing Properties of Nanocrystalline α -MoO₃
Sucheta Sau, Sonam Chakraborty, Tanushri Das and **Mrinal Pal***, *Front. Mater.*
6 (2019) 6: 285. doi: 10.3389/fmats
- 2) Bismuth Doped Nickel Ferrite Nanoparticles for Room Temperature Memory Devices
Mahasweta Banerjee, A Mukherjee, S Chakraborty, soumen basu, **M Pal***
ACS Appl. Nano. Mater., 2 (2019) 7795
- 3) Non-invasive Monitoring of Human Health by Exhaled Breath Analysis: A Comprehensive Review", Sagnik Das, **Mrinal Pal***
J. Elec. Chem. Soc. (Accepted)
- 4) Highly selective and stable acetone sensor based on chemically prepared bismuth ferrite nanoparticles
Sonam Chakraborty and **Mrinal Pal***, *J.Alloy. Comp.* **787** (2019) 1204
- 5) "A Light Induced Tunable n-Doping of Ag Embedded GO/RGO Sheets in Polymer Matrix"
N. Singh, D. Kothari, J. Ansari, **M. Pal**, S. Mandal, S. Dhara and A. Datta, *J. Phys. Chem. C.*
123 (2019) 10557.
- 6) Impact of morphology on the electrical and photocatalytic property of CdS nanostructures
Sonam Chakraborty, Sucheta Sau and **Mrinal Pal***, *Mater. Today: Proceedings*,
18 (2019) 5481
- 7) Microscopic length scale of charge transport and structural properties of cobalt doped Ni–Zn ferrite nanocrystals: A structure property correlation study
S.Chakraborty, Swagata Bandyopadhyay, A.Dutta and **M.Pal***, *Mat.Chem.Phys.*, **233** (2019) 310
- 8) Tailoring of microstructure, magnetic properties and charge carrier dynamics of YIG nanoparticles by Gd doping
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- 9) Effect of yttrium doping on structure, magnetic and electric properties of nanocrystalline cobalt ferrites.
S. Chakraborty, A. Datta and **M. Pal***, *J. Mag. Mag. Mater.*, **461** (2018) 69
- 10) Yttrium Doped Cobalt Ferrite Nanoparticles: Study of Dielectric relaxation and Charge Carrier Dynamics.
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- 11) Highly efficient novel carbon monoxide gas sensor based on bismuth ferrite nanoparticles for environmental monitoring.
S. Chakraborty and **M. Pal***, *New. J. Chem.*, **42** (2018) 7188
- 12) Hedgehog ZnO/Ag heterostructure: an environment-friendly rare earth free potential material for cold-white light emission with high quantum yield
Puja Bhattacharyya, Swarupananda Bhattacharjee, Manoranjan Bar, Uttam Kumar Ghorai, **Mrinal Pal**, Sujoy Baitalik and Chandan Kr. Ghosh, *Applied Physics A* **124** (2018) 782
- 13) Novel multiple phosphorescence in nanostructured Zinc oxide and calculation of correlated colour temperature.
Sagnik Das , Uttam Kumar Ghorai , Rajib Dey , Chandan Kumar Ghosh , **Mrinal Pal*** , *Phys. Chem. Chem. Phys.*, **19** (2017) 22995
- 14) Improved sensitivity of CdS nanoparticles by virtue of calcium doping: Promising candidate for monitoring alcohol in exhale human breath
S. Chakraborty and **M. Pal***, *Materials & Design*, **126** (2017) 18
- 15) Improved ethanol sensing behaviour of cadmium sulphide nanoflakes: Beneficial effect of morphology.
S. Chakraborty and **M. Pal***, *Sensor Actuator B*, **242** (2017) 1155.
- 16) Enhanced and selective acetone sensing properties of SnO₂-MWCNT nanocomposites: Promising materials for diabetes sensor.
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