

List of publications:

1. **A. Saroj**, U. Sharma, S. Das and V. Ramanath, Bismuth based novel substrate for Surface enhanced Raman Spectroscopy, *Spectrochim. Acta, Part A*, **2022**, **28**, 121576.
2. **A. Saroj**, V. Ramanathan, Bismuth oxybromide based novel substrate for Surface enhanced Raman Spectroscopy, *Vib. Spec.* **2022**, **124**, 103463.
3. P. Bhadoria, **A. Saroj**, V. Ramanathan, To dimerize or not: *para*-aminothiophenol on a bismuth heterostructure, *Phys. Chem. Chem. Phys.*, **2023**, **25**, 9569-9575.
4. **A. Saroj**, V. Ramanathan, CTAB-assisted AgBr-bismuth oxybromide based novel SERS substrate for label-free, non-invasive quantitative detection of detrimental synthetic food colorants (**Communicated**).
5. **A. Saroj**, V Ramanathan, B. Kumar Mishra, A. N Panda, N. Sathyamurthy, Improved Estimates of Host-Guest Interaction Energies for Endohedral Fullerenes Containing Rare Gas Atoms, Small Molecules, and Cations, *ChemPhysChem.* **2022**, **23** (24), e202200413.
6. A. Kumar Singh, P. Keshari, **A. Saroj**, V. Ramanathan, Rosy, Electrodeposition of Graphitic Carbon Nitride and its In-Situ Decoration with MnO₂ Nanostructures: A Tailored Interface for Dopamine Sensing, *Surfaces and Interfaces*, **2023**, **42**, 103316.
7. Bismuth oxybromide based Surface enhanced Raman scattering (SERS) substrate for the detection of adulterated Sudan I dye in Chilli powder. **A Saroj**, V Ramanathan (**submitted**).

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