



VIDYA RANI SINGH

MacCracken Scholar,

First Year PhD,

Department of Chemistry, New York University
United States of America



Research: Designing sensor platforms for bioanalytes through supramolecular chemistry and fluorescence spectroscopy

1. Vidya R. Singh and Prabhat K. Singh. "A Supramolecule based Fluorescence Turn-on and Ratiometric Sensor for ATP in Aqueous Solution", *Journal of Material Chemistry B*, 2020, 8, 1182-1190, "HOT Paper".
2. Vidya R. Singh, Jotiram N. Malegaonkar, Siddhanath V. Bhosale and Prabhat K. Singh, "An ATP responsive fluorescent supramolecular assembly based on polyelectrolyte and AIE active tetraphenylethylene derivative", *Organic and Biomolecular Chemistry*, 2020, 18, 8414-8423.
3. Vidya R. Singh and Prabhat K Singh, "A novel supramolecule based fluorescence turn-on and ratiometric sensor for highly selective detection of Glutathione over Cystein and Homocystein", *Microchimica Acta*, 2020 187, 631.
4. Bhanushree Gupta, Vidya R Singh, Surbhi Verma, Neha Meshram, Leena Dhruw, Rahul Sharma, Kallol K. Ghosh, Ramesh C. Gupta, *Nutraceuticals in hunting, sporting and performance enhancing activities, Nutraceuticals for veterinary medicine*, Chapter 45, Springer
5. Vidya R. Singh, Shrishti P. Pandey and Prabhat K Singh, "A Polyelectrolyte based supramolecular assembly for ratiometric sensing of ATP with very high discrimination from Pyrophosphate", *Journal of Molecular Liquids*, 328, 115314, 2021.
6. Vidya R. Singh and Prabhat K Singh, "Poly(styrene-sulfonate) hosted Thioflavin-T aggregates: A turn-on and ratiometric sensing platform for ATP recognition", *Dyes and Pigments*, 109577, 2021.