

Poonam Rajesh Prasad

Assistant Professor

Department of Chemistry

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Academic Qualification:

- ❖ Ph.D. (Indian Institute of Technology Bombay, Mumbai).

Professional recognition, awards, fellowships:

- ❖ Qualified all India National Eligibility Test (CSIR-NET) and all India Level Junior Research Fellowship (CSIR-JRF) in Chemical Sciences conducted by Council of Scientific and Industrial Research, New Delhi, India.
- ❖ Junior Research Fellowship (JRF) and Senior Research Fellowship (SRF) awarded by Council of Scientific and Industrial Research, New Delhi, India.
- ❖ Graduate Aptitude Test in Engineering (GATE) 2007

Research experiences:

- ❖ Post. Post-Doctoral Fellow from Institute of Chemistry, The Hebrew University of Jerusalem, Israel

Research Area:

- ❖ Synthesis and characterization of Inorganic and Organometallic including organochalcogens derivatives
- ❖ Pincer derivatives, Macrocyclic Schiff-base
- ❖ X-ray Crystallography
- ❖ biological applications, GPx activity
- ❖ Metal Organic Frameworks
- ❖ Transition metal complexes
- ❖ Computational Chemistry

Full List of publications:

National Journals = 1, International Journals = 7

1. Srivastava, K.; **Shah, P.**; Singh, H. B.; Butcher, R. J. "Isolation and structural characterization of some aryltellurium halides and their hydrolyzed products stabilized by an intramolecular Te···N interaction" *Organometallics* **2011**, *30*, 534.
2. Selvakumar, K. **Shah, P.**; Singh, H. B.; Butcher, R. J. "Synthesis, structure, and glutathione peroxidase-like activity of amino acid containing ebselen analogues and diaryl diselenides" *Chem. Eur. J.* **2011**, *17*, 12741.
3. Selvakumar, K., Singh, V. P.; **Shah, P.**; Singh, H. B. "Synthesis of novel heterocycles containing Se-O/Se-N linkages: Role of intramolecular coordination" *Main Group Chemistry* **2011**, *10*, 141.
4. Prasad, Poonam R.; Singh, H. B.; Butcher, R. J. "Isolation and structures of some selenium and tellurium derivatives of 1, 4, 5, 8, 9, 12- hexabromododecahydrotriphenylene as co-crystals of triphenylene" *J. Chem. Sci.* **2014**, *126*, 1311.
5. Prasad, Poonam R.; Das, S.; Singh, H. B.; Butcher, R. J. "2-Bromo-5-tert-butyl-N-methyl-N- [2- (methylamino)phenyl]-3-(1-methyl- 1Hbenzimidazol-2-yl)benzamide" *Acta Cryst. Sect. E* **2014**, *70*, o822.
6. Prasad, Poonam R.; Singh, H. B.; Butcher, R. J. "Synthesis, Structure and Antioxidant Activity of Cyclohexene-Fused Selenuranes and Related Derivatives" *Molecules* **2015**, *20*, 12670-12685.
7. Prasad, Poonam R; Singh, H. B.; Butcher, R. J. "Synthesis, Structure and Reactivity of β -Chalcocyclohexenals: Dichalcogenides and Chalcogenides" *J. Organomet. Chem.* **2016**, *814*, 42.
8. Prasad, Poonam R; Selvakumar, K.; Singh, H. B.; Butcher, R. J. "Synthesis, Structure and Bonding of 1-Oxa-6,6 λ^4 -chalcogenopentalenes and Related Derivatives; Role of Intramolecular Coordination" *J. Org. Chem.* **2016**, *81*, 3214.