

**Journal papers**

- **Sharma, P.** and Sharma, R.K. (2015), "Platinum functionalized multiwall carbon nanotube composites as recyclable catalyst for highly efficient asymmetric hydrogenation of methyl pyruvate ", RSC Advances, Vol. 5, No. 124, pp. 102481-102487.
- **Sharma, P.** and Sharma, R.K. (2016), "Asymmetric Hydrogenation of  $\alpha$ -ketoesters on Pt (111) Surface", New Journal of Chemistry, Vol. 40, pp. 9038 - 9041.
- **Sharma, P.** and Sharma, R.K. (2017), "Platinum functionalized Chiral Polyamides: Efficient Heterogeneous Catalyst for Solvent Free Asymmetric Hydrogenation of Ethyl 2-oxo-4-phenylbutanoate", ChemistrySelect, Vol. 2, No. 1, pp. 513-520.

**Conference papers**

- **Sharma, P.,** Sharma, R. K., "Asymmetric Hydrogenation of Ethyl 2-Oxo-2-Phenylacetate with Chiral Platinum Loaded on Carbon Fiber" IJERT Conference Proceedings, 2016, Vol. 4, Issue 12 pp. 6-10 / ISSN: 2278-0181.
- **Sharma, P.,** Sharma, R. K., Comparative study of Pt loaded carbon support catalysis in hydrogenation reaction, 3rd Annual International Conference on Chemistry, Chemical Engineering and Chemical Process at Singapore, January 26-27, 2015, GSTF, DOI 10.5176/2301-3761\_CCECP15.65. <http://dl4.globalstf.org/wpsc-product>.

**Patent**

- **Sharma, P.,** Sharma, R. K., Facet Controlled Preparation of Metal Hexagonal Nano Crystal/Carbon Materials Catalyst and Application Therof. (Application No. 201611022543).

**Conference presentations**

- **Sharma, P.,** Sharma, R. K., Pt/Graphene as Recyclable Catalyst for Highly Efficient Asymmetric Hydrogenation of  $\alpha$  ketoester, Asia Pacific Congress on Catalysis (APCAT - 7) Pacific Association of Catalysis Societies at Mumbai India, January 19-21, 2017.
- **Sharma, P.,** Sharma, R. K., Pd/CNT catalysed allylation of aldehydes, 22nd National Symposium on Catalysis (CATSYMP-22) at CSIR-CSMCRI (Central Salt and Marine Chemical Research Institute), Bhavnagar, Gujarat January 7-9, 2015.
- **Sharma, P.,** Sharma, R. K., "Synthesis and Catalytic Characterisation of Uniformly Dispersed Metal Nanoparticle on Carbon Fiber", 8th Mid-Year CRSI National Symposium in Chemistry inaugurated at CSIR-NEIST, Jorhat, July 10-12, 2014.
- **Sharma, P.,** Sharma, R. K., "Metal CNT Nanoreactors for Asymmetric Catalysis", 16th CRSI National Symposium in chemistry", Feb 7-9, 2014 at IIT Bombay.

