

# List of Publications

## REFEREED JOURNAL PUBLICATIONS:

1. **A. Mishra**, R. Prasad, A Review on Preferential Oxidation of Carbon Monoxide in Hydrogen Rich Gases, *Bulletin of Chemical Reaction Engineering & Catalysis* 6(1) (2011) 1-14.
2. **A. Mishra**, R. Prasad, Preparation and Application of Perovskite Catalysts for Diesel Soot Emissions Control: An Overview, *Catalysis Reviews: Science and Engineering*, 56 (2014) 57-81.
3. **A. Mishra**, R. Prasad, Catalytic Combustion of Diesel Soot over K/Ag Substituted LaCoO<sub>3</sub> Perovskite Catalysts, *International Journal of Applied Engineering Research*, 9 (1) (2014) 9-16.
4. R. Prasad, A. Kumar, **A. Mishra** Potash Substituted Mixed Metal (La-Zn) Oxide Catalysts for Diesel Soot Oxidation, *International Journal of Advances in Science and Technology*, 1 (2014) 125-130.
5. R. Prasad, A. Kumar, **A. Mishra**, Isothermal Kinetics of Diesel Soot Oxidation over La<sub>0.7</sub>K<sub>0.3</sub>ZnO<sub>y</sub> Catalysts. *Bulletin of Chemical Reaction Engineering & Catalysis*, 9(3) (2014). 192-200.
6. **A. Mishra** and R. Prasad, Effect of Preparation Method and Calcination Temperature on LaCoO<sub>3</sub> Perovskite Catalyst for Diesel Soot Oxidation, *Canadian Chemical transaction*, 3(1) (2015) 82-95.
7. **A. Mishra**, R. Prasad, Development of highly efficient double-substituted perovskite catalysts for abatement of diesel soot emissions, *Clean Technologies and Environmental Policy (springer)* 17 (2015) 2337-2347.
8. **A. Mishra**, R. Prasad, Comparative studies of transition metal based perovskite catalysts for diesel soot combustion (communicated to *Iranian Journal of Chemistry and Chemical Engineering*).
9. **A. Mishra**, R. Prasad, Performance and synthesis of dually substituted LaFeO<sub>3</sub> perovskite catalyst for Diesel soot oxidation, (communicated to *RSC Advances*).
10. **A. Mishra**, R. Prasad, Design of La-based perovskite catalysts for diesel soot combustion following a novel route of reactive calcinations, (communicated to *Catalysis Today, Elsevier*).

## PAPER PRESENTED IN CONFERENCES

1. R. Prasad, Abhishek Kumar and **A. Mishra** Kinetics of Diesel Soot Oxidation over K<sub>0.3</sub>La<sub>0.7</sub>ZnO<sub>y</sub> Catalysts. Chemcon 2013, ICT, Mumbai.
2. **A. Mishra**, R. Prasad, Catalytic Combustion of Diesel Soot over K/Ag Substituted LaCoO<sub>3</sub> Perovskite Catalysts, SITCEE 2014, JNU, New Delhi.
3. R. Prasad, A. Kumar, and **A. Mishra**, Potash Substituted Mixed Metal (La-Zn) Oxide Catalysts for Diesel Soot Oxidation, ICAST 2014, Thailand.
4. **A. Mishra**, R. Prasad, Comparative studies of transition metal based perovskite catalysts for diesel soot combustion, HETIS 2014, Chandigarh.

5. **A. Mishra**, R. Prasad, Effects of air flow rates and partial substitution of  $\text{LaFeO}_3$  Perovskite catalyst on activity for oxidation of diesel soot, ICEPS-2015, Pondicherry.
6. **A. Mishra**, R. Prasad, Design of La-based perovskite catalysts for diesel soot combustion following a novel route of reactive calcination. *NAM24 2015, USA*.
7. R. Prasad, **A. Mishra**, Nano-size perovskite catalyst synthesized by reactive grinding for diesel soot oxidation *GSC/JACI Symposium 2015, Japan*.

#### **BOOK PUBLISHED**

1. **A. Mishra**, R. Prasad, Preferential oxidation of CO in hydrogen rich gases: A catalytic aspect, LAP LAMBERT Academic Publishing, ISBN No. 978-3-659-27944-7, (2014).